Honeywell Security Group

Honeywell

Security Products Catalogue 2014

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Monday to Thursday from 7.30 am to 5.00 pm and Friday from 7.30 am to 3.00 pm, German time.

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IP type of protection

The type of protection indicates the suitability of electric operating materials (for example devices, lights and installation material) for various ambient conditions and, in addition, the protection of persons from a potential risk when using them.

Basics

In many applications, electric and electronic devices must work reliably over many years under difficult ambient conditions.

Apart from the admissible temperature range, exposure to chemical stress, which is understood as meaning their resistance to aggressive media in industry such as vapours, acids, bases, oil or fuels, limit their use. Moreover, the penetration of moisture and foreign matter, such as dust, must be prevented to ensure their reliable function.

As for their suitability for various ambient conditions, the systems are divided into suitable types of protection, the so-called IP codes. According to DIN, the abbreviation IP stands for International Protection, but is used as Ingress Protection in the English-speaking world. They are defined in DIN EN 60529 under the title Types of Protection and attached to the housing (IP code).

Nomenclature

A two-digit number is attached to the letters IP that always form part of the designation of the type of protection. It indicates the scope of protection a housing offers with respect to touch or foreign bodies (first digit) and moisture (second digit).

The type of protection classified by means of the IP must be distinguished from the class of protection. Both, however, refer to the protection from touching dangerous electric voltages, the IP additionally classifying the protection of the devices from soiling and moisture.

Levels of protection for protection from touch and foreign bodies (1st digit)

Digit	Protection from touch	Protection from foreign bodies
0	No protection	No protection
1	Protection from large-sized body parts diameter 50 mm	Large foreign bodies (diameter from 50 mm)
2	Finger protection (diameter 12 mm)	Medium-size foreign bodies (diameter from 12.5 mm)
3	Tools and wires (diameter from 2.5 mm)	Small foreign matter (diameter from 2.5 mm)
4	Tools and wires (diameter from 1 mm)	Grain-shaped foreign matter (diameter from 1 mm)
5 (K)	Wire protection (as IP 4) dust-protected	Dust accumulation
6 (K)	Wire protection (as IP 4) dust-proof	No ingress of dust

Levels of protection of the protection from water (2nd digit)

Digit	Protection from water
0	No protection
1	Protection from vertically dripping water
2	Protection from diagonally (15°) falling drip water
3	Protection from falling spray water up to 60°, relative to the vertical
4	Schutz gegen allseitiges Spritzwasser
4 k	Protection from spray water on all sides
5	Protection from hose water (nozzle) from any angle
6	Protection from strong hose water (flooding)
6 k	Protection from strong hose water under elevated pressure (flooding), only applicable to street vehicles
7	Protection from temporary submersion
8	Protection from permanent submersion

If one of the two digits does not have to be specified, that digit will be replaced with the letter X (for example "IPX1"). If required, letters can be attached to the combination of number for more detailed description of the type of protection. Thus, the letter K is used to identify the equipment of street vehicles for certain codes.

More information on the IP types of protection can be found in DIN EN 60529 and in the IEC Publication 529. Until October 1992, the types of protection were defined in DIN 40050.

Typical types of protection

In industrial plants, the equipment is typically rated IP 54, in switch cabinets it is IP 20. Depending on the installation site, IP 65 is a useful rating in the automotive field. In installation sites in vehicles that are openly accessible, in particular in construction machines, IP67 and IP6K9K are used in disaster prevention and military technology.

Often (e.g. in operating elements in public transportation or in lifts) it is also necessary to make provisions against vandalism, in which case IP5X is a useful rating, even if the operating circuits are working with low voltage and there is no increased risk of soiling. Complete protection from touch is provided from IP 5X since accidental ingress is prevented starting with this level of protection.

Informations

VdS = VdS approval (VdS-Schadenverhütung GmbH)

= Information, important notes such as special versions, dependencies, etc

1PU/1VPE = Packaging unit

= Scope of delivery of the article, list of delivered components not shown

= Delivery period of the article if it differs from the standard delivery period (1 to 7 days)

Information regarding the packaging units:

For all unlabelled articles, the packaging unit is 1.

If the packaging unit is greater than 1, the following applies:

1. The article shall only be sold in packaging units.
2. The quantity to be ordered always refers to the number of packaging units and not to the number of individual articles.
3. The price listed in the catalog is always the price of the packaging unit and not the price of the individual article.

Environmental class according to VdS

The VdS Guidelines for hazard detection systems VdS 2110 titled "Protection against environmental influences" describe the requirements on the performance of hazard detection systems with environmental influences and the respective test methods. The tests for determining the environmental classes comprise not only tightness to the penetration of foreign bodies, dust and water, but include a wide range of further tests:

- Climatic environment
- Additional climatic requirements
- Biological environment
- Chemically active substances
- Mechanically active substances
- Mechanical environment

On the basis of these practice-oriented test for the division into environmental classes, this list of products also lists the VdS environmental class for all devices suitable for outdoor use.

The VdS Guidelines define four environmental classes:

Test	Audit	Endurance test	Degree of severity of the environmental class, short description of the influence			
			I	II	III	IV
Dry heat (T1) according to IEC 60 068-2-2	x		+40° C, 16 h	+55 °C, 16 h		+70 °C, 16 h[1)]
Dry heat (T2) according to IEC 60 068-2-2		x	No test			+70 °C, 21 d[1)]
Cold (T3) according to IEC 60 068-2-1	x		+5 °C, 16 h	-10 °C, 16 h	-25 °C, 16 h	
Constant humid heat (T4) according to IEC 60 068-2-56	x		+40 °C, 4 d 93% rel. h.		No test	
Constant humid heat (T5) according to IEC 60 068-2-3		x	+40 °C, 21 d, 93% rel. LF			
Cyclic humid heat (T6) according to IEC 60 068-2-30	x		No test	+40 °C, 2 cycles	+55 °C, 2 cycles	
Cyclic humid heat (T7) according to IEC 60 068-2-30		x	No test		+55 °C, 6 cycles	

[1)] The objective of the test at 70 °C is to cover the heating effect of solar radiation.

When selecting products for outdoor use, the relevant ambient conditions can be seen from the description of the environmental class. The test conditions are described in detail in the Guidelines "VdS 2110 - Protection against environmental influences".

Abbreviations

The desired compactness of this list has made it necessary to work with abbreviations for some article designations. For your orientation, the most frequent abbreviations (legend) are listed below.

AC	=	Alternating current
AM	=	Anti-Masking
BMT, FDT	=	Fire detection technology
BS	=	Block lock
BUS-1	=	Bus system 1
BUS-2	=	Bus system 2
BWK, APB	=	Anti Passback
DB	=	Database
DC	=	Direct current
DTMF	=	Dual Tone Multiple Frequency
el.	=	electronic
EMC	=	Intrusion detector computer
FAI	=	First alarm indication
EMT IDT	=	Intrusion detection technology
EMZ, IDCP	=	Intrusion detector control panel
HE	=	Unit/s of height;
1 HE	=	44.45 mm
HF	=	High frequency
HTML	=	Hyper Text Mark up Language
IP	=	Internal Protection or Internet Protocol
ISDN	=	Integrated Services Digital Network
LAN	=	Local Area Network
LCD	=	Liquid Cristal Display
MF	=	Multi-functional
PIN	=	Personal Identification Number
PL	=	Product Line
RAID	=	Redundant Array of Independent Disks
RAL	=	German Institute for Quality Assurance and Marking
RWT	=	Rescue route technology
SQL	=	Standard Query Language
TE=HP	=	Horizontal Pitch
uni	=	universal
VdS	=	German Insurance Association
ZG0	=	Housing size W 230 x H 155 x D 190 mm
ZG1	=	Housing size W 300 x H 186 x D 125 mm
ZG2	=	Housing size W 350 x H 300 x D 152 mm
ZG3.1	=	Housing size W 500 x H 300 x D 210 mm
ZG3.2	=	Housing size W 500 x H 300 x D 260 mm
ZG4	=	Housing size W 580 x H 640 x D 300 mm
ZG5	=	Housing size W 600 x H 630 x D 300 mm
ZG6	=	Housing size W 600 x H 1035 x D 300 mm
ZG7.1	=	Housing size W 488 x H 272 x D 155 mm
ZG7.2	=	Housing size W 488 x H 272 x D 230 mm
ZG8.1	=	Housing size W 488 x H 405 x D 155 mm
ZK, AC	=	Access control
XML	=	Extended Markup Language

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Notizen

Management Systems

- WINMAG plus
- WINMAG Lite

Network technology

- IGIS-LOOP

Parameterisation software

- IQ SystemControl
- WINFEM

Software Management System for Hazard Alarm Systems

Performance Features

- Compatible with:
  - Windows Server 2003 32-/64-bit version
  - Windows Vista 32-/64-bit version
  - Windows Server 2008 32-/64-bit Version (Foundation version not supported)
  - Windows 7 32-/64-bit version (Home edition not supported)
- Modular design and free programmability
- Direct control of the users in the network
- Sequence of measures for service personnel
- Individual assignment of user rights - priority control
- Simulation functions integrated
- Extensive logging of events and operations
- Webbased protocol analysis
- Visualisation of messages
- Up to 12 active graphics can be displayed simultaneously
- Integration of video sequences possible
- Output of information via Window print manager to several printers, etc.
- 10 graphics printers possible per workstation
- Time programmes/calendar function
- Standard feature via integrated database
- Other programmes can be activated while in WINMAG plus
- Powerful programming language SIAS for customer-specific adaptation of the interface and sequences in case of alarm
- Remote control via modem possible as an option
- Optinal with 3D integration

Current language versions of WINMAG plus:

- Chinese
- Czech
- German
- English
- Spanish
- French
- Hungarian
- Italian
- Dutch
- Romanian
- Russian
- Croatian
- Slovak
- Polish

Respective program version on request.

WINMAG plus is a PC-based management system developed especially for the requirements of hazard detection technology.

WINMAG plus manages and visualises the fields of intrusion detection technology, fire detection technology, access control technology, video technology, rescue route technology/escape door control under a uniform user interface. The database and user interface are structured according to common standards. Messages are displayed graphically and in text form.

The WINMAG plus options in terms of application technology are wide-ranging. They range from clearly organized messages to the the active control of all signaling components.

Based on our IGIS-Loop and essernet® security networks, WINMAG plus is a professional and convenient visual information and management solution.

The program:

Through its modular design, WINMAG plus provides software suitable for every system size and every field of application. The product range goes from the WINMAG plus standard package for single-station systems to the upgrade software from GEMAG to WINMAG plus. Licensing enables the purchased program options and authorises the use of the program. The licence comes with a copy-protection plug (dongle), which is plugged into a parallel interface or a USB port of the WINMAG plus computer. In a multi-station system, each computer containing transponders requires a copy-protection plug. Workstations which do not have a connection of their own do not require a copy-protection plug.

The licence is for one release version from version 1. When changing from an old WINMAG main version, the licence must be updated to the current version.

When the copy-protection plug is removed with the programme running, WINMAG plus will run at most for another 72 hours in the online mode.

Service for setup engineers:

From entering detection points to preparing graphics, we offer a large number of services in connection with WINMAG. We introduce WINMAG plus to the system operator, draw up the specification together with him, prepare SIAS programs and complete applications, train the operating personnel and oversee the installation up to the handover/acceptance.

Interfaces/Drivers:

In addition to the drivers for our security systems listed in the catalogue, we can offer you a large number of additional drivers for a wide range of technical systems and manufacturers. Since the number of available drivers is constantly increasing, an updated list of drivers can be downloaded upon request. Should the required driver not be available, it can be developed by us. An alternative possibility is to connect the technical systems via the standardised OPC interface. This interface is an international standard that is supported by many manufacturers from a wide range of areas. For the development of your drivers, we offer the Connection Server and a development package. It allows you to write your own drivers for WINMAG plus.

For offers of the individual options the latest used SDK must be requested.

Hardware and software requirements:

Intel Dual Core or higher, min. 4 GB RAM, min. 80 GB available hard disk storage, XGA graphic card of min. 4 MB video memory, monitor of min. 1024x768 pixels, sound card with external loudspeakers, compatible with Windows Server 2003 32-/64-bit version, Windows Vista 32-/64-bit version, Windows Server 2008 32-/64-bit version (Foundation version not possible), Windows 7 32-/64-bit version, Internet Explorer from version 7.0. For the external logging the Windows component “Internet Information Service” (IIS) is additionally required.

To order WINMAG plus and/or additional licences, please use the WINMAG plus order form.

013610 **DVD control centre software WINMAG plus standard package**

DVD containing the WINMAG plus control centre software for hazard detection systems, excluding licence, compatible with Windows Server 2003 32-/64-bit version, Windows Vista 32-/64-bit version, Windows Server 2008 32-/64-bit Version (Foundation version not possible), Windows 7 32-/64-bit version.

The standard software plus the appropriate licences allows you to manage and operate hazard detection systems via a PC.

Hazard messages are displayed in text form and graphically. This makes it possible to use the PC also as an electronic emergency plan.

The WINMAG plus standard package will work without licence for demonstration purposes for 20 eight-hour days as full version with panel connection and will then switch back to the offline mode.
After expiry of the test period, the connection to connected components will be disabled.
A start in the offline mode will not reduce the number of online test runs.
The demo mode is a viable editing interface. All components will work with the exception of importing messages. Via simulation, every sequence can be tested even in the demo mode and all editing functions can be used.

Standard licences

013631 **WINMAG basis licence USB interface**

WINMAG plus control centre software standard licence including copy-protection plug for USB port.

This standard licence is for enabling the standard package/demo version as unlimited visualisation software on server workstations and on clients in the network. To connect control panels to server workstations, further licences are required (see 013601, 013603 - 013606, 013608, 013611 - 013613, 013623 - 013626).

Copy-protection plug for USB port.

Upgarde package

013616 Upgrade of a WINMAG installation from version 6

Upgrade of a WINMAG installation to the latest WINMAG plus control centre software.

An existing WINMAG installation from version 6 can be upgraded to the latest WINMAG plus control centre software. Entering the licence or update number is mandatory. For each PC it is connected to, a separate upgrade must be ordered.

For ordering the licence number of the standard licence and the end user data sheet are required.

013617 Upgrade of a WINMAG installation up to version 5

Upgrade of a WINMAG installation to the latest WINMAG plus control centre software.

An existing WINMAG installation lower than version 6 can be upgraded to the latest WINMAG plus control centre software.

For each PC it is connected to, a separate upgrade must be ordered.

This upgrade includes a copy-protection plug (dongle) plus the licences for fire detection and intrusion detection technologies and four clients. For extensive systems, an individual offer must be requested.

013636 WINMAG Lite, upgrade to full version

Once the system limits of WINMAG Lite have been reached, an upgrade to the full version is possible without problems, since both systems access a common database.

WINMAG plus options are not part of the upgrade and must be ordered separately.

013645 Replacement Dongle USB instead Parallel

Needed, when e. g. through replacement of the computer no more parallel interface is available.

Extension licences

013609 WINMAG plus Control Centre Software Later Extension

This ordering number is an auxiliary number for a later option extension (e.g. additional client or later enable of video technology) for an existing WINMAG installation from V6.0. The appropriate licences must be ordered additionally.

Information regarding the licences in question:
Only one licence each is required for connecting any desired number of detection control panels to a PC. These licences can be ordered separately (at a later stage) only in connection with this auxiliary number. The update number of the standard licence must be given.

013601 WINMAG Option Intrusion Detection Technology

Option for the WINMAG plus standard licence. It is required when intrusion detection technology units are to be connected to WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell intrusion detection systems MB/HB and 5008.

013643 WINMAG Option Galaxy Dimension

Option for the WINMAG plus standard licence. It is required when intrusion detection technology units of the type Honeywell Galaxy Dimension are to be connected to WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell intrusion detection systems Galaxy Dimension.

013626 WINMAG Option Fire Detection Technology

Option for the WINMAG plus standard licence. It is required when fire detection technology units from Esser by Honeywell are to be connected to WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell fire detection systems 1024, 1016, 8000 and IQ8Control.

013642 WINMAG Option Notifier Fire Panels

Option for the WINMAG plus standard licence. It is required when fire detection technology units of type ID3000 from Notifier by Honeywell are to be connected to WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell Notifier fire detection systems of the type ID3000 and derivatives. This license cannot be operated together with 013601/013602.

013603 **WINMAG Option Access Control Licence**

Option for the WINMAG plus standard licence. It is required when access control technology units (e.g. ACS-2 and ACS-8) are to be connected to WINMAG plus.

This requires the MultiAccess for Windows or IQ MultiAccess software.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given. The licence is for connecting the Honeywell access control systems ACS and (IQ) MultiAccess.

013638 **WINMAG Option Honeywell Video**

Option for the WINMAG plus standard licence. It is required when Honeywell video technology units are to be operated on WINMAG plus. The devices are capable of executing commands such as pivoting, zoom, tilting, monitor selection, etc., depending on the model.

The following Honeywell video devices have previously been supported:

Honeywell MaxPro 32; Honeywell Fusion; VisiOprime; further brands upon request.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013620 **WINMAG Option MaxPRO VMS**

Option for the WINMAG plus standard licence. It is required when video technology from Honeywell with MaxPRO VMS is to be integrated with WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013604 **WINMAG Option Video Technology**

Option for the WINMAG plus standard licence. It is required when Honeywell video technology units are to be operated on WINMAG plus. The devices are capable of executing commands such as pivoting, zoom, tilting, monitor selection, etc., depending on the model.

The following Honeywell video devices have previously been supported: Dallmeier; Bosch IP cams; Ernitec M 500 and M 1000; Philips LTC 8x00; Geutebrück Vicrosoft; Geutebrück Multiscope; Video X; Pelco; further brands upon request.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013629 **WINMAG Option Geutebrück Video Connection**

Option for the WINMAG plus standard licence. It is required when video technology units of the type Geviscope from the manufacturer Geutebrück are to be operated on WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013619 **WINMAG Option HeiTel Video Connection**

Option for the WINMAG plus standard licence. It is required when video technology units of the manufacturer HeiTel are to be operated on WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013632 **WINMAG Option Dallmeier Video Connection**

Option for the WINMAG plus standard licence. It is required when video technology units of the manufacturer Dallmeier are to be operated on WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013658 **WINMAG Option SeeTec Video Connection**

Option for the WINMAG plus standard licence. It is required when video technology units of the manufacturer SeeTec are to be operated on WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013605 **WINMAG Option Escape Route Technology**

Option for the WINMAG plus standard licence. It is required when WINMAG plus is to be used to operate escape route technology/escape door control units (e.g. Dorma) are to be operated. The status of escape doors is shown graphically.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given. The licence is for connecting the Honeywell escape route technology/escape door control.

013623 **WINMAG Option DEZ 9000 Interfaceing**

Option for connecting the remote operating control panel DEZ 9000 to the WINMAG plus system. The connection also allows applications to be connected to the WINMAG plus system that work with the VdS-2465 transmission protocol.

013646 **WINMAG Option DS 6750 / DS 7700**

Option for the WINMAG plus standard licence. It is required when alarm transmission units DS 6750 or DS 7700 are to be connected to WINMAG plus.

Allows stand-alone operation of the DS6750 and the DS 7700 directly without intruder panel. Up to 88 inputs or 82 outputs available. System information like phone line status, PSU status and status of steady connection to ARC and video systems are also available.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given. The licence is for connecting the Honeywell alarm transmission systems DS 6750 and DS 7700.

013608 **WINMAG Option RDT**

Option for the WINMAG plus standard licence. Allows WINMAG plus to be operated via modem lines using DS 7600 / 7700 / 9500 / 9600 and DS 6600 / 6750 on Honeywell intruder panels and stand alone operation of DS 6750 and DS 7700.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013662 **WINMAG Licence Login Reader**

NEW

Option for the WINMAG plus standard licence. Allows the connection of 3rd party Nedap readers. With this reader the user/operator can login into WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

WINMAG plus SDK

013606 WINMAG Option SDK

Option for the WINMAG plus standard licence. The SDK is a software module that allows an external system to be connected to WINMAG plus. It offers a comfortable interface that allows data and controls to be exchanged bidirectionally in the I/O device format with WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013607 Developer Kit WINMAG plus SDK

This Developer Kit allows you to program WINMAG plus connections to third providers yourself. This package contains the SDK including the complete documentation plus one day of support on location in Albstadt.

OPC and BACnet

013590 Universal Gateway for PC

Software gateway excluding graphic interface as stand-alone solution for providing data points to master control centre systems via OPC, ESPA, BACnet.

The article 013590 can only be ordered in connection with the data point package article 013618 (500 data points). For any system connection, the corresponding licence (013601/03/04/05/23/26) must also be ordered. For a BACnet connection, the article 013627 must be ordered in addition.

013618 Data Point Package

Package of 500 data points for project-related provision of OPC tags, BACnet objects, ESPA data points, etc.

The data point package option can only be ordered in connection with the OPC Server licence 013590 for PC, or the OPC Server licence 013611, or the BACnet Server licence 013627.

013611 WINMAG Option OPC Server

Option for the WINMAG plus standard licence. It is required if WINMAG plus is to function as OPC server.

The OPC server licence can only be ordered in connection with the data point package option (013618). This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013612 WINMAG Option OPC Client

Option for the WINMAG plus standard licence. It is required when WINMAG plus is to represent data from units equipped with OPC interfaces.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013627 WINMAG Option BACnet Server

Option for the WINMAG plus standard licence. It is required when WINMAG plus data are to be transmitted via BACnet. For MB-Systems and FACP of series 800x, IQ8 and FlexES. Other systems on request. For commissioning, support by Honeywell is required.

The OPC server licence can only be ordered in connection with the data point package option (013618). This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given. For commissioning, support by Honeywell is required.
BACnet Server licence:
To connect the Honeywell Security products to building automation systems by means of the standardised BACnet protocol (ISO 16484-5), please contact our ISS team.

013628 WINMAG Option BACnet-Client

Option for the WINMAG plus standard licence. It is required when WINMAG plus shall receive data via BACnet. Please ask Honeywell which sytems are connectable. For commissioning, support by Honeywell is required.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
For commissioning, support by Honeywell is required.
BACnet-Client licence:
To connect the Honeywell Security products to building automation systems by means of the standardised BACnet protocol (ISO 16484-5), please contact our ISS team.

Options

013613 WINMAG Option Notifikation

Option for the WINMAG plus standard licence. It is required when SMS, fax or e-mail is to be sent from WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The notification function requires an ISDN connection (S0) and an ISDN card.

013650 WINMAG Option Escalation

Option for the WINMAG plus standard licence. It is required when SMS sent from WINMAG plus are to be acknowledged. If they remain unacknowledged, a pre-programmed escalation plan will start.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The escalation licence requires the notification licence 013613. The function requires a sound card in the PC.

013651 WINMAG Option DTMF

Option for the WINMAG plus standard licence. It allows control sequences to be carried out by DTMF. In this case, it is, for example, possible to control outputs of the system connected to WINMAG plus by mobile phone.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013652 WINMAG Option Client Processing Ability

Option for the WINMAG plus standard licence that allows you to assign individual interfaces and rights to several users.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013653 WINMAG Option Multi-Monitor

Option for the WINMAG plus standard licence. This allows WINMAG plus to be displayed on up to 4 monitors showing different WINMAG plus displays from 8 possible monitors per PC. This licence is PC-based. For unconnected PCs a standard licence is required.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013659 WINMAG Licence 3D Integration

NEW

Option for the WINMAG plus standard licence. Allows a 3D model view for better display of all system statuses.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013660 WINMAG Option WEBx

Option for the WINMAG plus standard licence. Allows a display of all system statuses via the Internet or Intranet using standard browsers (max. 5 browsers).

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013655 Auto-CAD® Connection Licence

Option for the WINMAG plus standard licence. It is required when WINMAG plus data are to be imported directly by AutoCAD® and detection points are to be set in AutoCAD®.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013656 WINMAG plus Licence Nurse

Option for the WINMAG plus standard licence. Is required to connect devices of the nurse call systems (e. g. clino System 99) to WINMAG plus.

The licence is used to connect Ackermann clino systems.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013624 WINMAG Option Redundancy

Option for the redundant connection of the essernet® and IGIS-Loop security networks to a WINMAG plus server. The redundant network connection works in the master/backup mode and protects the WINMAG plus premises from data loss when the network connection is interrupted due to cable defects or when a COM port failure occurs.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013625 WINMAG Option Client Connection

Option for the WINMAG plus standard licence. Allows a client to be operated in a computer network at a server workstation. The licence must be installed at the server workstation. For each client, only the WINMAG plus software is required. For each client, one WINMAG plus Client licence is required.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013661 WINMAG Licence DTS System

NEW

Option for the WINMAG plus standard licence. Allows the connection of the DTS system.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

Service

784830 Entering a detection point

Premises-related according to written customer specification.

784832.10 Text page input

Object-related according to written customer specifications.

784833 Entering a graphics page

Premises-related according to written customer specification.

784839 Conversion of a graphics page

Conversion of different graphics formats to a common WINMAG plus format.

Examples of the WINMAG plus user interface

Examples of the WINMAG plus user interface

The WINMAG plus graphic view shows a graphical and tabular overview of the applied and monitored objects.

Graphic view in detail of a defined building, part of the building or a certain floor.
The ground plans or side views can be manually created or imported as file (e.g. tif, cad or other file types).
3-D graphics as option (013659).

Display of an intrusion alarm in building H2 (sensor actuation) with individual created instructions for actions to be carried out.

Application of the WINMAG plus system configuration

1. WINMAG plus single station with connection to an IGIS-LOOP-Network

WINMAG plus required software:	
1x CD WINMAG plus	Item-No. 013610
1x WINMAG plus standard license	Item-No. 013631
1x License intrusion	Item-No. 013601

2. WINMAG plus multi station with 1 server, 2 clients and with connection to an IGIS-LOOP-Network

WINMAG plus required software:	
1x CD WINMAG plus	Item-No. 013610
1x WINMAG plus standard license	Item-No. 013631
1x License intrusion	Item-No. 013601
2x License WINMAG plus Client	Item-No. 013625

Application of the WINMAG plus system configuration

3. WINMAG plus multi station with 1 server, 2 clients and with connection of different systems

WINMAG plus required software:

1x CD WINMAG plus	Item-No. 013610
1x WINMAG plus standard license	Item-No. 013631
1x License intrusion	Item-No. 013601
1x License fire	Item-No. 013626
1x License access control	Item-No. 013603
1x License video technology	Item-No. 013604
2x License WINMAG plus Client	Item-No. 013625

4. WINMAG plus multi station with 1 operational server, 1 redundancy server, 3 clients and with connection to an IGIS-LOOP-Network

WINMAG plus required software:

Server 1

1x CD WINMAG plus	Item-No. 013610
1x WINMAG plus standard license	Item-No. 013631
1x License intrusion	Item-No. 013601
1x License fire	Item-No. 013626
4x License WINMAG plus Client	Item-No. 013625
1x License redundancy	Item-No. 013624

Server 2

1x WINMAG plus standard license	Item-No. 013631
1x License intrusion	Item-No. 013601
1x License fire	Item-No. 013626

013635 WINMAG Lite, package with USB dongle

Performance Features

- Low-cost management software for hazard detection systems
- Visualisation and control of video management systems
- VisiOprime or Fusion and additionally Visualisation and control of only one hazard detection central unit
  (FDCP, IDS, rescue route technology, AC)
- a maximum of three users possible
- Management of up to 500 detection points per premises
- Processing of up to 100 messages per second
- Processing of up to 100 macro sequences
- Connection of log and alarm printers
- Information output via monitor and/or printer (Windows standard printer)
- Adjustable program background
- Flexible, window-oriented graphics
- Displaying and finding detectors in graphics
- Displaying the current situation
- Predefined alarm message
- Simulation function
- Extensive logging of events and operation
- Connection via RS-232, modem, ISDN, TCP/IP

WINMAG Lite is the low-cost entry into the management of hazard detection systems. Easy handling, as well as predefined practice-related types of control units and detection points facilitates the startup and operation of WINMAG Lite.

WINMAG Lite is highly suitable for small systems for which in the near future no large extensions or no link-up of further hazard detection control panels are planned. Thus, the Lite version offers a wide range of applications even to WINMAG plus professionals.

The combination of a hazard detection system with the Honeywell Fusion and VisiOprime video management systems allows especially small premises to be secured in a professional manner. WINMAG Lite provides the user with almost all WINMAG plus standard functions. **In contrast to the full version, only one hazard detection control panel can be connected.** Support for WINMAG Lite must be purchased.

The user makes use of predefined programs, which can be adapted to the situation at hand on-site by means of a text editor.

The alarm stack known from previous WINMAG versions is replaced by the message display in the head bar in the form of icons. This new performance feature improves clarity for the user and thus allows faster reaction times in case of alarm.

In contrast to the full version, only one hazard detection control panel can be connected.

Hardware and software requirements:
Intel Dual Core or higher, min. 4 GB RAM, min. 80 GB available hard disk storage, XGA graphic card of min. 4 MB video memory, monitor of min. 1024x768 pixels, sound card with external loudspeakers, compatible with Windows Server 2003 32-/64-bit version, Windows Vista 32-/64-bit version, Windows Server 2008 32-/64-bit version (Foundation version not possible), Windows 7 32-/64-bit version (Home edition not supported), Internet Explorer from version 7.0.

CD control centre software WINMAG Lite

Application example

013636 WINMAG Lite, upgrade to full version

Once the system limits of WINMAG Lite have been reached, an upgrade to the full version is possible without problems, since both systems access a common database.

WINMAG plus options are not part of the upgrade and must be ordered separately.

Graphic display and WINMAG Lite application example

Example of WINMAG Lite System structure

4

An alarm message appears by clicking 3 the magnetic contact icon:

The message contains two individually adaptable text modules and telephone numbers

012590 PanelPC with WINMAG touch

The PanelPC is a PC based display and operation terminal for WINMAG plus. It consists of a fully-featured PC with Touchscreen with an easy and comfortable user interface. The installed WINMAG Touch is able to process and display data from different networks, e.g. the Honeywell-IGIS-network, the Honeywell-IGIS-LOOP-network, the essernet® and IP-networks.

All system information of the connected fire and/or intruder panels are displayed on the PanelPC. Areas can be armed/disarmed and detector groups can be blocked/unblocked.

The WINMAG PanelPC can be operated in a WINMAG multi-user configuration as client, where it receives all data (data base, graphics, layers, SIAS-programs etc.) from the WINMAG plus server, which also distributes all status data and commands. In small premises the PanelPC can also be operated as stand-alone display and operating unit.

Performance Features

- Touch Panel Computer with 12,1" TFT monitor
- LCD display SVGA TFT 12,1"
- Resolution 800 x 600 pixel
- Compact housing with aluminium front cover
- Front cover protected as for IP 65
- Silent operation without fan
- Modern, user-friendly interface
- Operation through non-glare touchscreen
- Operation and connection of up to four panels over TCP/IP or serial
- Display of system informations of connected fire and intrusion panels
- User access rights to be individually set
- Connection of PC peripherals over PC interfaces and PC networking possible
- Item no. 012591 (WINMAG options Intrusion and Fire) included

Technical Data

Installation	Console- or wall mounting
Cooling	noiseless without fan
Dimensions (W x H x D)	345 x 265 x 60 mm
Weight	approx. 4,0 kg
Current consumption	27 W (typical)
Power supply	12 V DC - 5 A (60 W)
Class of protection	IP65 (Monitor-Front site)
Operating temperature range	0 to 45 °C
Storage temperature range	-20 to +70 °C
System hardware	
CPU	Celeron®M Processor 1,5 GHz
Internal memory	SO-DDR slot up to 1 GB
Memory	1 x Industry CompactFlash® with 8 GB
Audio inputs/outputs	1 x Mic in, 1x Line out
Ethernet	LAN Onboard dual 10/100 based Controller
Serial connections	2 x RS232 (COM1,2)
Connections	2 x USB 2.0
Keyboard	PS/2 6-pin Mini DIN
Connection video output	1 x VGA
LCD Monitor/Touchscreen	
Type	SVGA TFT LCD
Size	12,1 "
Resolution	800 x 600 pixel
Colours	262.144
Luminance	400 cd/m²
Contrast	500 : 1
Surface	non-reflecting coated

Application example

012591 **WINMAG Touch inclusive option EMA and BMA**

Software for use of PanelPC item no. 012590.
This option is included in item no. 012590.

Differences between the individual WINMAG versions

Differences between the individual WINMAG versions

WINMAG Lite is a special economically priced variant of WINMAG plus with limited functions. It is desinged for visualize and control one single alarm panel.

The following table shows a detailed function difference comparation between those program variants.

Please follow the comparation to decide whether WINMAG Lite is suffcient for your requirements.
WINMAG Lite can be simply updated to WINMAG plus every time.

WINMAG touch is a special adapted version of WINMAG plus to easily be used on a touch Panel PC.
Attention: WINMAG touch cannot be upgraded to WINMAG plus full version, and it is only available in German now.

	WINMAG plus	WINMAG Lite	WINMAG Touch
Item no.	**013630 / 013631 + option**	**013635**	**012590 / 012591**
Interfaces	open, depending on the options	1 single alarm panel(any type) Fusion/Visioprime video recording panels	4 alarm panel(any type) + optional
Number of IO device per Object	32000	500	32000
I/O device settings	user defined	user defined	user defined
User definied I/O device type	yes	yes	yes
Event list	yes	yes	yes
Meta data	yes	yes	yes
Alarm stack	yes	no	not available
User account	unlimited, free to define	3 predefined, cannot be changed	unlimited
Toolbar	editable	predefined	editable
SIAS Program	configurierable, extendable	predefined, no user Program allowed	configurierable, extendable
SIAS-Langauge scope	complete	no user defined programming possible	complete
Alarm display	same as WINMAG Lite, with additional alarm programm, with alarm stack	counter und popups with user defined Texts	same as WINMAG Lite
Alarm condition	configurable	predefined	configurable
Graphic	several formats - bmp, jpg, png, emf, wmf - AutoCAD-Integration (optional)	same as WINMAG plus, without - Multi-Monitor - Auto CAD	same as WINMAG plus, without - Multi-Monitor - Auto CAD
supported Monitor No.	4 from totally 8 (optional)	2	1
Max. no. of graphic	no limit	no limit	no limit
Max. no. of graphics to be displayed at the same time	48	13	12
Symbol actionen	configurable, user defined functions	predefined list	configurable, user defined functions
Create user defined symbole	yes	no	yes
Multiple station	yes	no	no
Clientele	yes	no	no
Time programm	yes	no	yes
State monitoring	yes	no	yes
Printer assignment	15	1	15
licensing	dongle with options for trades/functions	dongle without option	dongle with intrusion and fire, dptional video

IGIS-LOOP

Performance Features

- VdS approval
- Integrated hazard detection and information system
- Loop-type network structure with opposite galvanically separated RS-422 lines for maximum fail-safe
- Up to 16 loops of up to 64 users each can be linked
- Connection of several loops via routing paths serial/V.24 or via Ethernet (TCP/IP)
- Optionally BSI-compliant encryption on routing paths possible (RS-232/V.24 or Ethernet)
- Connection to IDP via I-BUS (IDCP MB48/100/256plus)
- Connection to FDCP via K-BUS (1024-F) or per connection kit (800X)
- Connection to WINMAG plus / WINFEM-PC via RS-232/V.24 or Ethernet TCP/IP
- Networking of up to 3 remote control panels IDP MB48/100, with remote operation and remote control of detector groups
- Up to 1200 m between adjacent users possible, each user is simultaneously repeater
- LOOP circuits with telephone cable J-Y-(St)Y possible
- Parameterisation via WINFEM Advanced
- FLASH firmware update possible

Decentralised system structures allow an optimum adaptation to different circumstances of the premises. What is required in practice, is not only an exactly adapted technology, but also new standards in security and installation options.

This is why the IGIS-LOOP network is set up via a single hardware component. The IGIS-LOOP Controller is the central module for data exchange, communication and at the same time also the interface for all integratable Honeywell hazard detection systems.

The loop-type network structure of the security network allows an increased fail-safe and interference immunity of the system through complete monitoring of all segments in the loop. Simple faults (e.g. short circuit or interruption) have no effect on the network function. By providing detailed information, errors and faults in the loop can be detected and eliminated immediately.

The dynamic user management allows users to be logged in and out during network operation without impairing the overall function of the network. Upon complete failure of a user, he/she will be disconnected from the system, while all other users within the IGIS-LOOP will remain fully functional.

IGIS-LOOP triple function: The network structure can be used to set up an actively communicating main and secondary control centre system in fire detection systems. This allows large premises-specific applications of decentralised structure to be achieved even without connection to a PC.

Moreover, IGIS-LOOP allows complex hazard detection systems to be set up and the organisation to be managed visually in a professional and convenient manner via a PC using WINMAG and remote parameterised via WINFEM.

The connection of hazard detection systems of a wide range of types (fire, intrusion, access control) is coordinated via the completely monitored and redundantly designed IGIS-LOOP network.

Individual loop systems can be routed with one another via the IGIS-LOOP Controller. Thus, individual loops can be connected in a large mixed IGIS-LOOP security network and managed centrally from a WINMAG control centre.

The standardised RS-422 interface allows a simple change of the transmission medium (e.g. telephone cable (JYSTY), optical wave guide, online modem) between the individual IGIS-LOOP Controllers.

For secure transmission, encryption listed in TL 03400 according to BSI (Federal Agency for Security) TL 03418, is available for the routing path between routed loops.

Technical Data

Baud rate	19200-307200 Baud (adjustable)
Rated operating voltage	12 V DC
Rated operating voltage range	10,5 V DC to 15 V DC
Current consumption	200 mA
Interfaces	RS-422 (IGIS-LOOP); RS-232 (WINMAG-PC), configuration; K-BUS (FDCU 1024-F); I-BUS (IACP 561-MB16/MB100/MB256); Frame bus (FDCU 1016, DS 7500-ISDN/IGIS);
Ethernet with Ethernet module	
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to + 70 °C
Environmental class as per VdS	II

Application example

Networking of remote control panels IACP MB48/100

Networking of remote control panels IACP 561-MB48/100

Connection of control panels to IGIS-LOOP and routing between IGIS-LOOP rings

e. g. routing line to
further IGIS-LOOP rings

IGIS-LOOP
controller

operation mode
"Router"

IGIS-LOOP
controller with
Ethernet connection
module

Routing line optional
with encryption

Ethernet
TCP/IP

operation mode
"Router"

operation mode
"I-BUS-Router"

Intruder alarm panel

IGIS-LOOP
controller with
Ethernet connection
module

IGIS-LOOP
controller

Routing line optional
with encryption

IGIS-LOOP
controller

IGIS-LOOP
controller

operation mode
"I-BUS-Router"

Intruder alarm panel

fiber
optic
converter

Routing line optional
with encryption

operation mode
"Router"

fiber
optic
converter

operation mode
"Router"

IGIS-LOOP
Controller

Connection via RS 232 or
modem also possible

operation mode
"RS-232/PC-Interface"

Ethernet
TCP/IP

PC with WINMAG plus
as control centre of a
safety system

IGIS-LOOP controller with
Ethernet connection module

013330.10 IGIS-LOOP Controller

For EMT/BMT/ZK/PC.

Interface controller of universal use for integrating intrusion detection and fire detection control panels in the IGIS-LOOP. The controller allows WINMAG control centre PCs to be connected to the IGIS-LOOP via the integrated RS-232, thus setting up an extensive security system.

013331.10 IGIS-LOOP Controller (in housing ZG0)

In housing ZG0. Housing with swivel door. Closure via seal.

Technical Data

Housing ZG0 dimensions (W x H x D)	230 x 155 x 90 mm
Housing colour	Grey white, similar to RAL 9002

No room for emergency power supply.

013332.10 IGIS-LOOP Controller (in housing ZG2)

In housing ZG2. Housing with swivel door. Closure via seal.

Technical Data

Housing ZG2 dimensions (W x H x D)	350 x 300 x 152 mm
Battery box	2 x 6,5 Ah
Housing colour	Grey white, similar to RAL 9002

Room for emergency power supply Item no. 010686.01 or 010690.02 and 1 accumulator 018007.10.

Accessories

013336 Ethernet connection module

Ethernet connection module for IGIS-LOOP Controller 013330.10

The Ethernet connection module is an adapter pcb for the IGIS-LOOP Controller to include another Ethernet interface (TCP/IP). An IGIS-LOOP Controller extended by the Ethernet connection module allows a routing path to be set up via the Ethernet.

Moreover, an IGIS-LOOP can be connected to a WINMAG control centre of a security system via the Ethernet. Intrusion detection control panels can also be connected to an IGIS-LOOP directly via the Ethernet by means of the Ethernet connection module and the IGIS-LOOP Controller (I-BUS router operating mode).

Technical Data

Current consumption	70 mA

013337 Secure transmission according to BSI

System extension for secure data transmission according to BSI.

The encrypted transmission only takes place between 2 IGIS-LOOPS on the routing path or by means of an I-BUS router. This article is required once per each path encrypted according to BSI. A secure transmission according to BSI is not possible in combination with the IDCP 5008/5008C (no encryption for system 5008).
BSI = German Federal Office for Information Security.

Includes 2 EEPROMs and software

013069 V.24 connection adapter set

Required for programming or for I-BUS router via V.24.

Operator software

013596 **IQ SystemControl**

Performance Features

- Integration of several intruder alarm panels MB24, MB48, MB100
- Connection via analogue modem, ISDN, IGIS-LOOP and TCP/IP
- Arming / disarming and service tools via virtual operating unit
- Integrated, IACP independent access control function for doors operated by locking cylinders/electronic strike plates, offline, online via radio or via virtual network
- IP transmission with or without encryption (AES, Chiasmus)
- Modern client/server system
- Server and client can run on different computers
- max. 1024 data carriers
- Flexible room/time zone concept
- Rights for: arming/disarming/control units/access/exit can be assigned separately
- Direct door control by simple mouse click
- Reasons for arming prevention can be displayed by simple mouse click
- Large event memory for up to 10 million entries
- containing detailed information (door, area, switching device, detector group, ID number, macro)
- Export possible as xls-, txt-, html- and xml-files
- Collection and administration of mifare DESFire data carriers
- Print options

IQ SystemControl replaces WINFEM User for intruder alarm control panels 561-MB24 / 561-MB48 / 561-MB100 from version 9.

For MB256 plus and MB control panels up to version 8, WINFEM User must still be used.

IQ SystemControl is based on the high-end software suite IQ MultiAccess and can therefore be easily upgraded to IQ MultiAccess. IQ SystemControl is a software that is very easy to use and therefore contains no programming options.

The integrated „virtual operating unit“ option (1x integrated, further optional) enables:

- arming / disarming
- switching on/off detector groups
- viewing alarm and event memory
- activating walking test
- starting macros
- maintenace functions

of all intruder alarm control panels connected to IQ SystemControl.

When connected to one or several IACP 561-MB24, 561-MB48 or 561-MB100, IQ SystemControl controls the data management for authorisations at IACP switching devices. They include data carriers, room/time zones and their authorisations for access functions, arming/disarming and control functions.

User entitlements are automatically adapted to VdS regulations via a “VdS switch”.

The connected IACP hardware will be detected and automatically configured. Existing master data of the intruder alarm control panel are transferred to IQ SystemControl where they can now be managed centrally.

Entries into the event memory can be evaluated in IQ SystemControl using all individual list adaptations. The technical integration of the unit is assisted by IQ SystemControl by supporting all existing remote access versions of the the intruder alarm control panel. The two systems can be coupled either by Ethernet (via TCP/IP), RDT (ISDN or analogue modem) or via IGIS-LOOP. In this way, the existing infrastructure can be used and extended without problems.

IQ SystemControl is required for collection and administration of mifare DESFire EV1 data carriers (not possible with WINFEM).

Independent of the intruder alarm control panel, IQ SystemControl can control doors operated by locking cylinders/electronic strike plates online or offline. For further details refer to chapter “wireless door systems”.

For ordering the end user data sheet is required.

Accessories:

029643	Upgrade to IQ MultiAccess 1024 persons, incl. option connection to intrusion detection systems
013598	IQ User ControlCenter** **One virtual operating unit is included in 013596. Only needed when additional operating units need to be operated simultaneously (e.g. on seperate computers)

PC Requirements:

Operating system:	Windows XP, Server 2003 R2, Server 2008, Server 2012, Windows 7 and Windows 8
Computer:	According to the requirements of the appropriate operating systems
Security (Server):	RAID 1 = hard disc mirroring / USV (uninterruptable power supply)
Monitor / graphic card:	minimum: 17" 1024 x 768 recommended: 19" 1152 x 864
other requirements:	DVD-drive, mouse, trackball or other Windows-compatible pointing device
for RDT:	Modem or ISDN-card certified by Honeywell

013598 **Option IACP User ControlCenter for PC, IQSC or IQMA**

Honeywell OPTION Software

Option IACP-connection to IQ MultiAccess (029626) and IQ SystemControl (013596) contain one virtual operating unit each.

Further virtual IACP operating units (013598) are only required when additional operating units need to be operated simultaneously (e.g. on seperate computers).

For ordering the end user data sheet is required.

029650 Option SALTO connection

Extension package for IQ MultiAccess or IQ SystemControl

Salto Virtual Network is a variation of the access control at offline door cylinders and fittings. All access authorisations are on the data carrier. They will regularly be updated at a central place (at least once a day) via a reader with write functionwhich is online connected to the SALTO software.

Information on disabled transponders will be written onto each data carrier that books at the online reader and distributed to all doors the transponder is presented. Thereby a misusage of a found or stolen data carrier will be prevented to the greatest possible extent.

Should the disabled transponder already be within the building and be used to book at a door that already has got the disabling information from another transponder, it will be marked as disabled and has no more access to any door.

In return events (bookings, battery status) of the doors will be written onto the data carriers with the next reading at the online reader and tranferred to the SALTO-Software and from there to IQMA / IQSC.

Data updates at each door via a separate programming device (PDA, Laptop) is no longer applicable in daily business as the data are on the transponders and not at the door cylinders / fittings.

Blacklists are distributed by the users of the transponders, events of the doors will return in the same way back to the access control software.

As data are to be written onto the transponders, at the moment this function is available with mifare transponders only (classic / DESFire EV1).

This option includes the SALTO software, that is to be installed together with IQ Multi-Access / IQ SystemControl, inclusive an interface for data exchange between IQMA / IQSC and SALTO. The enduser furthermore works in IQMA / IQSC only and doesnot have to learn and use a further application.

The installer once has to set up the door data in the SALTO software and distribiute them via a programming device to the doors during initial installation.

This option can be used with SALTO components only (see chapter “Virtual network”).

For ordering the end user data sheet is required.

029651 Number of SALTO readers

IQ MultiAccess and IQ SystemControl check the number of SALTO readers. As a maximum only as much SALTO readers as are enabled in the license file of IQMA / IQSC can be operated. Therefore this option must additionally be ordered for each SALTO reader (UBOX, Encoder, online reader door cylinder* / door fitting*).

This option is included in the Honeywell price of the door gylinders / fittings and will be discounted by 100%. For each door cylinder / fitting not purchased from Honeywell it is with costs.

*For douple site reading cylinders fittings this option is required per door side.

For ordering the end user data sheet is required.

029652 Option TBS finger scanner

NEW

Extension package for IQ MultiAccess

This option enables the connection of TBS finger scanners. It contains the interface to the TBS software for learning and administration of the finger templates integrated in IQ Multi-Access.

The appropriate TBS terminals are expected to be available at Honeywell by mid / end of Q4 2013.

For ordering the end user data sheet is required.

Programming and diagnostic software WINFEM and WINFEM Advanced

Programming is the decisive factor of the economical installation of a hazard detection system.

This requirement is met by the PC parameterisation software WINFEM or WINFEM Advanced in any respect. Clearly organised on-screen displays immediately show the current settings or guide logically through the entire programming. To archive the system programmings, they can be stored and can thus be retrieved whenever required. Likewise, remote maintenance, remote parameterisation and remote control can also be carried out via WINFEM or WINFEM Advanced.

System configuration for direct control panel programming on-site: Hazard detection system including communication interface, for example USB, serial/V.24, frame BUS or BUS-2; PC adapter cable; PC/laptop containing the corresponding WINFEM or WINFEM Advanced software.

For the latest software, updates, firmware, etc., please go to the customer page of our website.

System configuration for remote maintenance, remote parameterisation and remote diagnosis: Hazard detection system including communication interface, for example Ethernet, frame BUS or BUS-2; ISDN dialler or DGA 2400 on the frame BUS or BUS-2; network card, standard modem of 2400 baud* or ISDN controller on PC/laptop; PC/laptop containing the corresponding WINFEM or WINFEM Advanced software.

* We recommend the modems tested and approved by us.

013498 WINFEM Advanced parameterisation software

Programming software for intrusion detection control panels MB12, HB24, MB24, HB48.10, MB48, MB100.10, MB256 plus and MB256 (from firmware V03) and for the IK3 conventional evaluating unit and the diallers DS 7600, DS 7700, DS 9500, DS 9600, DS 6600, DS 6700 and DS 6750.

Accessories:

026809	Zero modem cable
013467.10	USB adapter box (USB 1.1 compatible)

Performance Features

- Windows XP SP3, Windows Vista 32-/64-bit version, Windows 7 32-/64-bit version
- Database for customers, premises and systems
- Operating unit emulation in different functionalities, depending on the type of connection

013552 WINFEM-AB 8 parameterisation software

Windows software for controlling and parameterising control panel series 100-AB8 via PC/laptop, locally and remote. Runs under Windows 95, Windows 98 and Windows Me.

Accessories:

013466	PC adapter cable V.24 / BUS-2 including 3-pin plug connector
013467.10	USB adapter box (USB 1.1 compatible)

Performance Features

- Existing programmings can be read out, modified and restored via WINFEM-AB
- Database with access protection
- Program printout possible
- PC/laptop can be docked on to the system as operating unit
- Comprehensive maintenance and troubleshooting possible

013595 WINFEM - User

WINFEM User is an efficient help for operating the intrusion detection control panels HB24/MB24, HB48/MB48, MB100 (up to V8) and MB256 plus on the user level.

The software uses the graphic options of a PC for display and operation.

It can be coupled either by modem, ISDN, serial interface, IGIS-LOOP or TCP/IP.

059000 EPROM update, German for IACP 561-MB8

059001 **EPROM update, German for IACP 561-MB16**

059002 **EPROM update, German for IACP 561-MB100**

059003 **EPROM update, German for IACP 561-MB256**

059004 **EPROM update, German for IACP 561-HB48**

Accessories

013466 **PC adapter cable V.24 / BUS-2**

With 3-pin plug connector.

For use under Windows 98SE only.

013467.10 **USB adapter box**

This device is a converter from the USB interface (universal serial bus) of a PC to the BUS-2 or frame BUS and V.24 for PC without available serial COM interface. The adapter box meets the USB specification 1.1 for full-speed devices. If a PC has an available serial COM interface, the serial programming cable 026809 gives a quicker communication for control panel programming.

Mandatory required for BUS-2 or frame bus connection under Windows 2000, Windows XP, Windows Vista 32-/64-bit version, Windows 7 32-/64-bit version.

Notizen

MB control panel series / Compact control panels

- MB-Secure
- MB 12
- 561-MB24
- 561-MB48
- 561-MB100
- 561-MB256 plus
- 50-M5
- 100-A5
- 561-H8

List of main functions of central units

The modular portfolio including panels, expansion modules, power supplies and housings allows cost effective assembly to fit to any specific requirement. With the new power supplies with BUS-2 communication to the MB-Secure panel distributed power supplement with full supervision is possible. With the common technological platform reduced training and maintenance effort is required.

Programming and setup of the MB-Secure is supported through the comfortable software package IQ PanelControl.
An easy and secure operation of the MB-Secure is allowed by the new LED, LED/LCD and Touch keypads which provide a new and common user interface to ensure reliable operation.

Control panels	MB-Secure 1000	MB-Secure 2000	MB-Secure 3000	MB-Secure 4000	MB-Secure 5000	MB-Secure 6000
Item no.	**013820**	**013830**	**013840**	**013850**	**013860**	**013870**
VdS class intrusion detection system	Class C (applied) EN 50131 Grade 3 (applied)	Class C (applied) EN 50131 Grade 3 (applied)	Class C (applied) EN 50131 Grade 3 (applied)	Class C (applied) EN 50131 Grade 3 (applied)	Class C (applied) EN 50131 Grade 3 (applied)	Class C (applied) EN 50131 Grade 3 (applied)
VdS approval no.	applied	applied	applied	applied	applied	applied
Detector groups	8	16	48	128	512	2048
Main zones	1	2	4	16	64	256
Doors	1	2	4	16	64	256
Users	16	32	64	128	512	1024
Room timezones	4	8	16	32	64	256
Macros	10	20	30	50	250	1000
Texts for detector groups	8 x 50 characters	16 x 50 characters	48 x 50 characters	128 x 50 characters	512 x 50 characters	2048 x 50 characters
Texts for main zones	1 x 50 characters	2 x 50 characters	4 x 50 characters	16 x 50 characters	64 x 50 characters	256 x 50 characters
Texts for users	16 x 50 characters	32 x 50 characters	64 x 50 characters	128 x 50 characters	512 x 50 characters	1024 x 50 characters
Texts for inputs	1000 x 50 characters	1000 x 50 characters	1000 x 50 characters	1000 x 50 characters	1000 x 50 characters	1000 x 50 characters
BUS-2 users (modules)	256	256	256	256	256	256
RF devices	256	256	256	256	256	256
RF Panic Button	32	32	32	32	32	32
Transmission devices (dialers)	1	1	1	1	1	1
BUS-2 operating units (keypads)	10 per BUS line	10 per BUS line	10 per BUS line	10 per BUS line	10 per BUS line	10 per BUS line
BUS-2 graphic operating units (TouchCenter)	10 per BUS line	10 per BUS line	10 per BUS line	10 per BUS line	10 per BUS line	10 per BUS line
Event memory	1000	1000	1000	1000	1000	1000
Call numbers	20	20	20	20	20	20
Dialling sequences	8	8	8	8	8	8
Routine call	4	4	4	4	4	4
Terminals						
Fast Ethernet (10/100) RJ-45	1	1	1	1	1	1
USB-Host (FW-Update)	1	1	1	1	1	1
RS-232 (Dialer)	1	1	1	1	1	1
Detector group inputs	4	4	4	4	4	4
Programm. outputs +12 V DC 50 mA	4	4	4	4	4	4
Relay 250 V AC/8 A	2	2	2	2	2	2

The specifications given refer to complete extensions and can differ, if several options are combined.
Note the current drain of the internal power supply unit! Operatation of additional peripherals requires external power supplies.

List of main functions of central units

The intruder alarm control panels 561-MB have been designed for use in the private and small to large scale industry sectors and are suitable, depending on the type of control panel, for creating medium- to large-sized security systems. The control panels comply with the latest guidelines of the VdS risk class C for intrusion detection systems and with the VDE regulations 0833, Part 1 and Part 3 of Class 1, configuration type B.

Control panels 561-MB24, 561-MB48 and 561-MB100 are also certified for VdS risk class C for access control systems.
The programming of the control panels is done conveniently via a PC / laptop using the corresponding WINFEM software. Remote programming or remote control is also possible via WINFEM. Alternatively, can be done programming via operating unit.

Control panels					
	MB12	**561-MB24**	**561-MB48**	**561-MB100**	**561-MB256 plus**
Item no.	012820 (LCD); 012821 (LED) 012822 (Compact) 012823.10 (TouchCenter)	012830; 012831 (LCD); 012832 (LED); 012833 (LCD, DS, IK3); 012834.10 (TouchCenter, IK3)	012911	013201.10, 013202.10 013203.10, 013204.10 013208.10, 013209.10	013222.10, 013223.10
VdS class intrusion detection system	Kl. A	Class C	Class C	Class C 1)	Class C
VdS approval no.	G111701	G103013	G105094	G193040	G106037
VdS class access control system	–	Class C	Class C	Class C 1)	–
VdS approval no.	–	Z105003	Z105011	Z105002	–
Detector groups	12	24	48	512	2048
Main zones / Sub zones	1/1	2/7	4/15	16/63	total 250
				64/15 2)	
Arming devices	2	8	16	64	250
Programmable analog inputs	8	8	8, max. 24	8, max. 56	4, max. 1028
User codes	16	16	32	128	750
ID codes	32	32	128	1024	1000
BUS-1 users	32	63	63, max. 315	63, max. 567	63, max. 2583
BUS-2 users	32	64	64, max. 128	64, max. 512	64, max. 704
RF devices	32	64	128	256	–
RF Panic Button	10	10	16	32	–
Extensions					
BUS-1 modules	–	–	1	2	10
BUS-2 modules	–	–	1	7	10
IGIS-LOOP	–	–	1	1	32
Transmission devices	1	2	2	2	32
BUS-2 operating units	16	16	24	64	50
BUS-2 graphic operating units	12	12	12	12	16
5-output modules	10	10	64	512	704
Operation features					
Texts for detector groups	12 x 40 characters	24 x 40 characters	48 x 40 characters	512 x 40 characters	2048 x 40 characters
Texts for zones	2 x 40 characters	8 x 40 characters	19 x 40 characters	79 x 40 characters	250 x 40 characters
Texts for inputs	255 x 40 characters	255 x 40 characters	255 x 40 characters	1000 x 40 characters	5000 x 40 characters
Texts for ID-cards	32 x 40 characters	32 x 40 characters	128 x 40 characters	512 x 40 characters	1000 x 40 characters
Room timezones	64	64	64	64	250
Links	10	10	10	50	4000
Link components	99	99	99	500	4000
Macros	20	20	20	100	600
Event memory	15000	15000	15000	15000	4000
Call numbers	8	8	8	8	8 per transmission device
Dialling sequences	4	4	4	4	4 per transmission device
Routine call	1	1	1	1	1 per transmission device
Terminals					
Conventional block lock	1	1	1, max. 3	1, max. 3	max. 250
RS-485 reader/operating unit	2	–	–	–	–
Acoustic alarm signalling device	2	2	2	2	2, max. 66
Optical alarm signalling device	1	1	1	1	1, max. 33
Printer connection	with WINFEM	with WINFEM	1	1	2
Programm. outputs +12 V DC	10	10	8, max. 24	8, max. 56	8, max. 1032
Programm. outputs 0 V	6	6	6, max. 12	6, max. 12	max. 1024
Relay 250 V AC/5 A	1	1	1	1	max. 128
Relay 24 V DC/1 A	1	1	1	1	4, max. 132

The specifications given refer to complete extensions and can differ, if several options are combined.
Note the current drain of the internal power supply unit! Operatation of additional peripherals requires external power supplies.
Legend: 1) = not for 19" version 2) = programmable from V13 via WINFEM

MB-Secure

NEW

Performance Features

- Depending on stage of expansion of panel up to:
  - 2048 detector groups
  - 256 partitions/areas
  - 256 doors/switching elements
  - 1024 users/operating codes/data carriers
  - 256 room/time zones
  - 1000 macros
- licensing concept* to allow individual functional extension for:
  - partitions/areas, detector groups, users, connectivity etc.
    (other functionalities in preparation)

Product range

The multi-functional platform for security solutions, MB-Secure, forms the base for the integration of intrusion detection, access control and video surveillance solutions.

The innovative licensing concept allows extension partitions/areas, detector groups etc. as well as additional functions like access control or video*, to ensure cost effective solutions by using one single system.

The integration of intrusion detection, access control and video surveillance gives highest investment security with a unique powerful system.

The MB-Secure brings fulls flexibility even in changing requirements in exisiting systems. Even an expansion of the functionality is feasible without replacement of the panel.*

The dimensions of the pcb and its pattern of fixing holes are identical with the master pcbs of the MB 48/100 series. This enables a migration to the new panel series with retention of as much as possible already existing hardware.

The modular portfolio including panels, expansion modules, power supplies and housings allows cost effective assembly to fit to any specific requirement. With the new power supplies with BUS-2 communication to the MB-Secure panel distributed power supplement with full supervision is possible.

Extensive compatibility to the current BUS-2 modules portfolio ensures cost-effective installations. Continuous improvment of the BUS modules palette protect investments in installations.

With the common technological platform reduced training and maintenance effort is required. Programming and setup of the MB-Secure is supported through the comfortable software package IQ PanelControl.

An easy and secure operation of the MB-Secure is allowed by the new LED, LED/LCD and Touch keypads which provide a new and common user interface to ensure reliable operation.

With the integrated Ethernet interface cost-effective integration to management systems like WINMAG plus, IQ MultiAccess or IQ SystemControl are feasible.*

* in preparation

Stage of expansion independent features for all panel boards:

- 4 BUS-lines for up to 256 BUS-2 devices or RS-485-devices*
- Fast Ethernet - connection (10/100) with RJ-45
- 4 hardwired detector group inputs, resettable
- 4 outputs active high 12 V DC
- 2 relays 230 V AC / 8 A
- up to 10 keypads per BUS-2 line
- connection for I-BUS modules*
- programming over TCP/IP with PC/laptop and software package IQ PanelControl
- customer specific texts with up to 50 characters for:
  - partitions/areas, detector groups, users, inputs, outputs, room/time-zones etc.
- detection sensivity and resistor value of detector groups inputs programmable
- free programmable inputs and outputs
- expandable with distributed power supplies (over BUS-2)
- expandable with wireless components over BUS-2 (max. 256)
- up to 32 wireless panic buttons
- extensive access control functionality (multiple person AC, etc.)*
- alarm- and event memory with up to 30000 events
- easy firmware update with USB stick; TCP/IP in preparation
- integration of DS 6700, DS 6750 and DS 7700 dialers with RFW-4000, others in preparation
- automatic maintenance interval display (in preparation)

- additional functionalities:*
  - BUS-1 devices integration
  - WINMAG integration
  - IQ-SystemControl integration
  - IQ-MultiAccess integration
  - Video integration: control and recording of IP cameras
- modular expandable

* in preparation

Accessories

013950	Power supply/charger unit 12 V DC / 26 Ah
013960	Power supply/charger unit 12 V DC / 52 Ah
010686.01	Power supply unit 12 V DC / 17 Ah
010690.01	Power supply unit 12 V DC / 32 Ah
010690.02	Power supply unit 12 V DC / 40 Ah
012168	Power supply unit 12 V DC / 80 Ah
012170	Power supply unit 12 V DC / 130 Ah
013000	LED keypad, white for MB-Secure
013001	LED/LCD operating module, white, for MB-Secure
013002	Touch operating module TouchCenter Tuxedo, white, for MB/MB-Secure
012577.10	TouchCenter TFT BUS-2 graphic operating unit
057651.20	DS 7700 ISDN/IP transmission device as of firmware version V7 with RFW-4000
057864	DS 6700 as of firmware version V5
057865	DS 6750 PSTN/IP-auto dialler as of firmware version V5
050019	Distributor block, 16-pin
050510	Mains interference suppression filter type 2KV3
055280	Fixing band for batteries, dual lock

Technical Data

Operating voltage	12 V DC
Rated operating voltage range	10,5 V to 15 V DC
Current consumption at 12 V DC	
- disarmed, open group connections	200 mA
- Ethernet operation (additionally)	30 mA
- per group connection (terminated with 12,1 kOhm)	1 mA
- Relay	45 mA
Environmental class as per VdS	II
Operating temperature range	-5° C to +45° C
Storage temperature range	-25° C to +70° C
Dimensions (L x W)	226 x 158 mm

MB-Secure starter bundle

013821 **MB-Secure 1000 starter bundle**

NEU

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

This bundle includes 013730 ZG20 housing, 0101686.01 17Ah power supply and 013000 LED keypad.

Max. accumulator 1 x 18 Ah.

MB-Secure 1000 (013820), 013730 ZG20 housing, 010686.01 17Ah power supply and 013000 LED keypad.

013822 **MB-Secure 1000 starter bundle siren module**

NEU

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

This bundle includes 013730 ZG20 housing, 013920 siren module, 0101686.01 17Ah power supply and 013000 LED keypad.

Max. accumulator 1 x 18 Ah.

MB-Secure 1000 (013820), 013730 ZG20 housing, 013920 siren module, 010686.01 17Ah power supply and 013000 LED keypad.

013831 **MB-Secure 2000 starter bundle LED**

NEU

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

This bundle includes 013730 ZG20 housing, 013920 siren module, 0101686.01 17Ah power supply and 013000 LED keypad.

Max. accumulator 1 x 18 Ah.

MB-Secure 2000 (013830), 013730 ZG20 housing, 013920 siren module, 010686.01 17Ah power supply and 013000 LED keypad.

013832 **MB-Secure 2000 starter bundle LCD**

NEU

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

This bundle includes 013730 ZG20 housing, 013920 siren module, 0101686.01 17Ah power supply and 013001 LCD keypad.

Max. accumulator 1 x 18 Ah.

MB-Secure 2000 (013830), 013730 ZG20 housing, 013920 siren module, 010686.01 17Ah power supply and 013001 LCD keypad.

013833 **MB-Secure 2000 starter bundle LCD plus**

NEU

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

This bundle includes 013730 ZG20 housing, 013920 siren module, 057651.20 DS7700, 0101686.01 17Ah power supply and 013001 LCD keypad.

Max. accumulator 1 x 18 Ah.

MB-Secure 2000 (013830), 013730 ZG20 housing, 013920 siren module, 057651.20 DS7700, 010686.01 17Ah power supply and 013001 LCD keypad.

MB-Secure Motherboards

013820 MB-Secure 1000

NEW

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Motherboard with a pre-defined scope of functionality by firmware.
Support of further periperals as well as the free modularity via the licenses will follow step by step with further firmware versions. A subsequent update via licences is possible at any time from availability.

Computer/connection PCB, mounting and installation material, programming software IQ PanelControl.

Performance Features

- 8 detector groups
- 1 partitions/areas
- 1 door/switching element
- 16 users/operating codes/data carriers
- 4 room/time zones
- 10 macros

013830 MB-Secure 2000

NEW

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Motherboard with a pre-defined scope of functionality by firmware.
Support of further periperals as well as the free modularity via the licenses will follow step by step with further firmware versions. A subsequent update via licences is possible at any time from availability.

Computer/connection PCB, mounting and installation material, programming software IQ PanelControl.

Performance Features

- 16 detector groups
- 2 partitions/areas
- 2 doors/switching elements
- 32 users/operating codes/data carriers
- 8 room/time zones
- 20 macros

013840 MB-Secure 3000

NEW

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Motherboard with a pre-defined scope of functionality by firmware.
Support of further periperals as well as the free modularity via the licenses will follow step by step with further firmware versions. A subsequent update via licences is possible at any time from availability.

Computer/connection PCB, mounting and installation material, programming software IQ PanelControl.

Performance Features

- 48 detector groups
- 4 partitions/areas
- 4 doors/switching elements
- 64 users/operating codes/data carriers
- 16 room/time zones
- 30 macros

013850 **MB-Secure 4000**

NEW

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Motherboard with a pre-defined scope of functionality by firmware.
Support of further periperals as well as the free modularity via the licenses will follow step by step with further firmware versions. A subsequent update via licences is possible at any time from availability.

Computer/connection PCB, mounting and installation material, programming software IQ PanelControl.

Performance Features

- 128 detector groups
- 16 partitions/areas
- 16 doors/switching elements
- 128 users/operating codes/data carriers
- 32 room/time zones
- 50 macros

013860 **MB-Secure 5000**

NEW

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Motherboard with a pre-defined scope of functionality by firmware.
Support of further periperals as well as the free modularity via the licenses will follow step by step with further firmware versions. A subsequent update via licences is possible at any time from availability.

Computer/connection PCB, mounting and installation material, programming software IQ PanelControl.

Performance Features

- 512 detector groups
- 64 partitions/areas
- 64 doors/switching elements
- 512 users/operating codes/data carriers
- 64 room/time zones
- 250 macros

013870 **MB-Secure 6000**

NEW

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Motherboard with a pre-defined scope of functionality by firmware.
Support of further periperals as well as the free modularity via the licenses will follow step by step with further firmware versions. A subsequent update via licences is possible at any time from availability.

Computer/connection PCB, mounting and installation material, programming software IQ PanelControl.

Performance Features

- 2048 detector groups
- 256 partitions/areas
- 256 doors/switching elements
- 1024 users/operating codes/data carriers
- 256 room/time zones
- 1000 macros

013810 **MB-Secure motherboard**

NEW

VdS **Approval** **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Motherboard without a pre-defined scope of functionality by firmware.

Additionaly one of the following base licences must be ordered.

Computer/connection PCB, mounting and installation material, programming software IQ PanelControl.

In preparation.

Software base licence

059510 **MB-Secure 1000 base licence**

NEW

059520 **MB-Secure 2000 base licence**

NEW

059530 **MB-Secure 3000 base licence**

NEW

059540 **MB-Secure 4000 base licence**

NEW

059550 **MB-Secure 5000 base licence**

NEW

059560 **MB-Secure 6000 base licence**

NEW

Software update base licence

059610 **MB-Secure licence 8 detector groups**

NEU

059611 **MB-Secure licence 64 detector groups**

NEU

059612 **MB-Secure licence 512 detector groups**

NEU

059620 MB-Secure licence 2 partitions

NEU

059621 MB-Secure licence 16 partitions

NEU

059622 MB-Secure licence 64 partitions

NEU

059630 MB-Secure licence 10 macros

NEU

059631 MB-Secure licence 50 macros

NEU

059632 MB-Secure licence 250 macros

NEU

059650 MB-Secure licence 16 users

NEU

059651 MB-Secure licence 64 users

NEU

059652 MB-Secure licence 512 users

NEU

059660 MB-Secure licence 4 room/time zones

NEU

059661 MB-Secure licence 16 room/time zones

NEU

059662 MB-Secure licence 64 room/time zones

NEU

059670 MB-Secure licence 2 doors

NEU

059671 MB-Secure licence 16 doors

NEU

059672 MB-Secure licence 64 doors

NEU

Modules for MB-Secure

013930 IB2 Bus Expander

NEW

The IB2 Bus expander is intended for extension of a MB-Secure series intruder panel with additional BUS-2 lines and a RS-232 port. Connection to the MB-Secure is established via a IB2 line, while the module can be mounted either in the panel housing or externally with up to 1000m distance.

For operation of the BUS-2 modules up to 4 independant and separately fused connections with 64 modules each are available.

In total up to 256 BUS-2 modules can be operated.

The RS-232 port is intended for future expansions.

Also four free programmable detector group inputs (two with reset function) are available.

Performance Features

- 1 IB2-BUS line to MB-Secure
- 4 BUS lines for up to 256 BUS-2 devices; can be switched to RS-485*
- 1 RS-232 connection for future expansion*
- 4 hardwired detector group inputs, two resettable

* in preparation

Technical Data

Operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Quiescent current at UN (without BUS-2 User)	xx mA
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Ambient temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	158 x 112 mm

IB2 1to4 Bus Expander, mounting material.

Available 4. quarter 2014.

013940 IB2 16 I/O Expander

NEW

The IB2 16 I/O Expander is intended to expand a MB-Secure series intruder panel with additional detector group inputs and outputs.

The connection to the MB-Secure panel is established via IB2*-Bus or the BUS-2, whilst the module can be operated in in the panel housing as well as in a separate housing in up to 1000 m distance.

For connection of hardwired detectors there are 16 inputs in double-balanced technology avaialable. By this up to 4 contacts of a detector can be connected in series and supervised by various resistor values. With this each input can handle all signals of a detector (alarm, fault, tamper and line break) in an efficient and economical way.

For operation of latching sensors e.g. passive glassbreak sensors each input provides a reset function.

Also the detector group inputs can be programmed and operated as active-low outputs.

Additional to these the module provides 16 free programmable active high outputs with 12 V 50 mA, which can be also used for operation of the relays like on the 013941.

Performance Features

- 1 IB2-BUS or BUS-2 line to MB-Secure
- 16 hardwired detector group inputs in double balanced technology, all resetable
- detector group inputs alternatively configurable as active low outputs
- 16 outputs active high 12 V DC
- 1 input for tamper contact
- Auxiliary power supply input

Technical Data

Operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Quiescent current	xx mA
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Ambient temperature range	-25 °C to +70 °C
Dimensions PCB (W x H x D)	158 x 112 mm

IB2 16 I/O Expander, mounting material.

Available 4. quarter 2014.

013941 Relay module 4 x 230 V / 8 A and 8 x 24 V / 1A

NEW

Performance Features

- 8 relays with 24 V / 1 A
- 4 relays with 250 V AC / 8 A
- Each relay with potential-free changeover contact
- Control signal 12 V 50 mA

The Relay module 4 x 230 V / 8 A and 8 x 24 V / 1A is intended to expand a intruder panel with additional relays.

The relays are operated with active 12 V signals, e.g. driven from a 013940 16 I/O expander modules or from the intruder panel main board itself.

The module contains 8 relays with 24 V / 1 A load capacity, and for large loads 4 relays with 230 V / 8 A load capacity are provided. Each relay is equipped with the connection for potential-free changeover contact.

Technical Data

Contact rating relay	24 V AC / x A (1 change over)
Contact rating relay	250 V AC / 8 A (1 change over)
Operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Ambient temperature range	-25 °C to +70 °C
Actuation voltage (release)	9-14 VDC
Actuation current	19 mA min.
Dimensions PCB (W x H x D)	158 x 112 mm

Relay module 4x230V/8A, 8x24V/1A, mounting material.

Available 4. quarter 2014.

Housings for MB-Secure

Housing portfolio for integration of MB-Secure mainboards, power supply units and expansion modules.

The bottoms of the housings are provided with appropriate holders to fasten the mother-board, a power supply unit and various expansion modules. In addition there is space for batteries.

013730 ZG20 housing for MB-Secure

NEU

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

For integration of a MB-Secure mainboard. With screw-on cover and built-in cover contact. Compatible PSUs: 010686.01, 010690.01, 010690.02, 012168, 012170, 013950, 013960, 013970.

Technical Data

Material	Sheet steel, powder-coated
Type of protection according to DIN 40 050	IP 30
Weight	ca. 5 kg
Dimensions (W x H x D)	460 x 382 x 95 mm
Housing	light grey, similar to RAL 7035

Max. accumulator space 18 Ah; space for 2 expansion modules; space for power supply unit.

Extension examples

013740 ZG2 housing for MB-Secure

NEW

VdS **Approval** **VdS class C (applied)**
EN 50131 Grade 3 (applied)

For integration of a MB-Secure mainboard. With screw-on door and built-in cover contact.

Technical Data

Material	Sheet steel 2 mm, powder-coated
Type of protection according to DIN 40 050	IP 30
Weight	ca. 8 kg
Dimensions (W x H x D)	350 x 300 x 152 mm
Housing	traffic white, similar to RAL 9016
Colour of front plate	light grey, similar to RAL 7035

Max. accumulator space 20 Ah; space for power supply unit.

Panel housing ZG2

Extension examples

013750 ZG3.1 housing for MB-Secure

NEW

VdS **Approval** **VdS class C (applied)**
EN 50131 Grade 3 (applied)

For integration of a MB-Secure mainboard. With screw-on door and built-in cover contact.

Technical Data

Material	Sheet steel 2 mm, powder-coatedet
Type of protection according to DIN 40 050	IP 30
Weight	ca. 13 kg
Dimensions (W x H x D)	500 x 300 x 210 mm
Housing	traffic white, similar to RAL 9016
Colour of front plate	llight grey, similar to RAL 7035

Max. accumulator space 2 x 17 Ah or 1 x 24 Ah; space for 2 expansion modules; space for power supply unit.

Panel housing ZG3.1

Extension examples

013760 ZG4 housing for MB-Secure

NEW

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

For integration of a MB-Secure mainboard. With lockable door and built-in cover contact.

Technical Data

Material	Sheet steel 2 mm, powder-coated
Type of protection according to DIN 40 050	IP 30
Weight	ca. 28 kg (without 19”-bezels)
Dimensions (W x H x D)	580 x 640 x 300 mm
Housing	traffic white, similar to RAL 9016
Colour of front plate	light grey, similar to RAL 7035

Space for 8 expansion modules; space for power supply unit; max. accumulator space 2 x 65 Ah.

Panel housing ZG4

Extension examples

013770 19” front panel for MB-Secure

NEW

Dummy unit for 19” switch cabinet installation dimension, headroom 6 height units.

Technical Data

Material	Sheet steel 2 mm, powder-coated
Colour	light grey, similar to RAL 7035

Keypads

NEW

Performance Features

- Modular design
- Several keypads to be combined horizontally and/or vertically
- Combinations also with MB/MB-Secure Touch operating module TouchCenter Tuxedo keypad possible
- f. m., s. m. and hollow wall mounting possible
- LED keypad with 20 freely programmable keys and individual labelling strips
- LED / LCD keypad with 15freely programmable keys and individual labelling strips
- Labelling strips exchangable during operation
- Key backlight with adjustable brightness
- Perkey 1 duo LED red/yellow and 1 LED green, each of them with adjustable brighhtness
- LCD display provides additional information on the status of the system as well as of required operation actions
- LCD backlight with adjustable brightness
- Software supported settings for labelling stripes
- Integrated reader

The operating and information communication devices of the 0130xx series are designed for operation with the panels of the **MB-Secure** series.

They are designed modularly. each keypad consists of 3 components:

- bezel

- Front unit inclusive elektronics

- case back

(see configuration overview next page)

Available are complete devices in the colour white as well as each individual component in the colours white, basalt grey and black for individual colour creation according to the customer´s requirements. So the keypad fits into the appropriate ambiente according to the individual intention: unconspiciously, harmonically or intentionally accentuated.

With surface mounting, the low construction depth (2 cm only) imparts the impression as if the device would float in front of the wall.

Via the programming software of the MB-Secure panels, IQ PanelControl, each key/LED can be programmed with individual functions.

The modular cover design as well as the freely programmable operating and indication devices provide multiple applications.

All the keypads can be combined individually, connected fix with each other and operated in flush mounted or surface mounted version. The required mounting accessory is included in the respective range of delivery.

This allows also combinations of an LED / LCD-keypad with one or several LED-keypads or a Touch-keypad with one or several LED-keypads. In this case the displays of the LCD and/or the Touch screen are related to all connected LEDs / keys, depending on the panel programming.

The keypads are neutral of language. All texts the display shows origin of the corresponding panel programming. Therefore each keypad is automatically available for each language supported by the panel. The same applies for the labelling stripes. They can be changed during operation by swinging open the bezel without triggering a tamper alarm.

Due to technical reasons the Touch keypad has a bigger construction depth. In order to have a flat surface with surface mounting of a combination with LED keypads a deep case back in all 3 colours is available. Case back deep and f. m. installation box are available as separate items.

For authorization each keypad is equipped with an internal reader for IK2/proX1 and IK3/proX2 transponders. By installing of an appropriate add-on pcb mifare DESFire EV1- or LEGIC prime readers can be retrofitted.

Caution:

Metallic mounting grounds can decrease the transmission range.

Configuration overview

NEW

* = For surface mouting of combination touch with LED deep case back also for LED required.

** = Not applicable with use of f. m. installation box.

LED keypad complete set

013000 **LED keypad, white, for MB-Secure**

NEW

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Complete set LED keypad white for MB-Secure, existing of:
- LED bezel, white, item no. 013010
- LED front unit incl. electronics, white, item no. 013011
- Case back flat, white, item no. 013043

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	9 V to 15 V DC
Quiescent current at 12V DC	< 20 mA
Additional current consumption	
Time-limited write/read mode	< 15 mA
LED status display	0 to 37 mA max., depending on brightness (max. 40 LEDs)
Button Luminous background	0 to 16 mA max., depending on brightness
Maximum current consumption	88 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	218 x 162 x 20 mm
Colour	traffic white (similar to RAL 9016), optional basalt grey (similar to RAL 7012) or optional traffic black (similar to RAL 9017)

LED combi system

013011 **LED front device including electronics, white**

NEW

Front unit inclusive electronics for LED keypad.
In order to create individual colour scheme to be combined with:
- LED bezel 013010, 013012, 013014 or 013016
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	9 V to 15 V DC
Quiescent current at 12V DC	< 20 mA
Additional current consumption	
Time-limited write/read mode	< 15 mA
LED status display	0 to 37 mA max., depending on brightness (max. 40 LEDs)
Button Luminous background	0 to 16 mA max., depending on brightness
Maximum current consumption	88 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	218 x 162 x 20 mm
Colour	traffic white (similar to RAL 9016)

013013 LED front device including electronics, grey

NEW

Front unit inclusive electronics for LED keypad.
In order to create individual colour scheme to be combined with:
- LED bezel 013010, 013012, 013014 or 013016
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	9 V to 15 V DC
Quiescent current at 12V DC	< 20 mA
Additional current consumption	
Time-limited write/read mode	< 15 mA
LED status display	0 to 37 mA max., depending on brightness (max. 40 LEDs)
Button Luminous background	0 to 16 mA max., depending on brightness
Maximum current consumption	88 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	218 x 162 x 20 mm
Colour	basalt grey (similar to RAL 7012)

013015 LED front device including electronics, black

NEW

Front unit inclusive electronics for LED keypad.
In order to create individual colour scheme to be combined with:
- LED bezel 013010, 013012, 013014 or 013016
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	9 V to 15 V DC
Quiescent current at 12V DC	< 20 mA
Additional current consumption	
Time-limited write/read mode	< 15 mA
LED status display	0 to 37 mA max., depending on brightness (max. 40 LEDs)
Button Luminous background	0 to 16 mA max., depending on brightness
Maximum current consumption	88 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	218 x 162 x 20 mm
Colour	traffic black (similar to RAL 9017)

Accessories LED combi system

For the individual colouring of a keypad 3 components per keypad are required:

- Bezel for LED
- Front device for LED
- Case back flat for LED

For combination of LED keypads with a Touch keypad with surface mounting, the LED keypads require also a **deep** case back.

013010 LED bezel, white

NEW

Bezel for LED keypad.
In order to create individual colour scheme to be combined with:
- LED front unit 013011, 013013 or 013015
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	traffic white (similar to RAL 9016)

013012 LED bezel, grey

NEW

Bezel for LED keypad.
In order to create individual colour scheme to be combined with:
- LED front unit 013011, 013013 or 013015
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	basalt grey (similar to RAL 7012)

013014 LED bezel, black

NEW

Bezel for LED keypad.
In order to create individual colour scheme to be combined with:
- LED front unit 013011, 013013 or 013015
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	traffic black (similar to RAL 9017)

013016 LED bezel, clear

NEW

Bezel for LED keypad.
This bezel is clear and enables the user to create his/her own individual colouring.
To be printed on the back side.
In order to create individual colour scheme to be combined with:
- LED front unit 013011, 013013 or 013015
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	clear

013017 Replacement key mat für LED keypad

NEW

Set of 2 x LED key mat with 10 keys each.

For replacement of worn out or polluted keys.

The LED keypad requires 2 LED key mats with 10 key each.

LED/LCD keypad complete set

013001 **LED/LCD operating module, white, for MB-Secure**

NEW

VdS **Approval** **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Complete set LED / LCD keypad white for MB-Secure, existing of:
- LED / LCD bezel, white, item no. 013020
- LED / LCD front unit incl. electronics, white, item no. 013021
- Case back flat, white, item no. 013043

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	9 V to 15 V DC
Quiescent current at 12V DC	< 20 mA
Additional current consumption	
Time-limited write/read mode	< 15 mA
LED status display	0 to 28 mA max., depending on brightness (max. 30 LEDs)
Button Luminous background	0 to 16 mA max., depending on brightness
LCD Luminous background	0 to 19 mA max., depending on brightness
Maximum current consumption	98 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	218 x 162 x 20 mm
Colour	traffic white (similar to RAL 9016), optional basalt grey (similar to RAL 7012) or optional traffic black (similar to RAL 9017)

LED/LCD combi system

013021 **LED / LCD front device including electronics, white**

NEW

Front unit inclusive electronics for LED / LCD keypad.
In order to create individual colour scheme to be combined with:
- LED bezel 013020, 013022, 013024 or 013026
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	9 V to 15 V DC
Quiescent current at 12V DC	< 20 mA
Additional current consumption	
Time-limited write/read mode	< 15 mA
LED status display	0 to 28 mA max., depending of brightness (max. 30 LEDs)
Button Luminous background	0 to 16 mA max., depending of brightness
LCD Luminous background	0 to 19 mA max., depending of brightness
Maximum current consumption	98 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	218 x 162 x 20 mm
Colour	traffic white (similar to RAL 9016)

013023 LED / LCD front device including electronics, grey

NEW

Front unit inclusive electronics for LED / LCD keypad.
In order to create individual colour scheme to be combined with:
- LED bezel 013020, 013022, 013024 or 013026
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	9 V to 15 V DC
Quiescent current at 12V DC	< 20 mA
Additional current consumption	
Time-limited write/read mode	< 15 mA
LED status display	0 to 28 mA max., depending of brightness (max. 30 LEDs)
Button Luminous background	0 to 16 mA max., depending of brightness
LCD Luminous background	0 to 19 mA max., depending of brightness
Maximum current consumption	98 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	218 x 162 x 20 mm
Colour	basalt grey (similar to RAL 7012)

013025 LED / LCD front device including electronics, black

NEW

Front unit inclusive electronics for LED / LCD keypad.
In order to create individual colour scheme to be combined with:
- LED bezel 013020, 013022, 013024 or 013026
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	9 V to 15 V DC
Quiescent current at 12V DC	< 20 mA
Additional current consumption	
Time-limited write/read mode	< 15 mA
LED status display	0 to 28 mA max., depending of brightness (max. 30 LEDs)
Button Luminous background	0 to 16 mA max., depending of brightness
LCD Luminous background	0 to 19 mA max., depending of brightness
Maximum current consumption	98 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	218 x 162 x 20 mm
Colour	traffic black (similar to RAL 9017)

Accessories LED/LCD combi system

For the individual colouring of a keypad 3 components per keypad are required:

- Bezel for LED / LCD
- Front device for LED / LCD
- Case back flat for LED / LCD

013020 LED / LCD bezel, white

NEW

Bezel for LED / LCD keypad.
In order to create individual colour scheme to be combined with:
- LED / LCD front unit 013021, 013023 or 013025
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	traffic white (similar to RAL 9016)

013022 LED / LCD bezel, grey

NEW

Bezel for LED / LCD keypad.
In order to create individual colour scheme to be combined with:
- LED / LCD front unit 013021, 013023 or 013025
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	basalt grey (similar to RAL 7012)

013024 LED / LCD bezel, black

NEW

Bezel for LED / LCD keypad.
In order to create individual colour scheme to be combined with:
- LED / LCD front unit 013021, 013023 or 013025
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	traffic black (similar to RAL 9017)

013026 LED / LCD bezel, clear

NEW

Bezel for LED / LCD keypad.
This bezel is clear and enables the user to create his/her own individual colouring.
To be printed on the back side.
In order to create individual colour scheme to be combined with:
- LED / LCD front unit 013021, 013023 or 013025
  and
- case back flat 013043, 013044 or 013045
  or
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	clear

013027 Replacement key mat für LED/LCD keypad

NEW

Set of 1 x LED key mat with 10 keys and 1 x LCD key mat with 5 LED keys and 4 LCD control keys.

For replacement of worn out or polluted keys.

The LED/LCD keypad requires one key mat with 10 LED keys and one key mat with 5 LED keys and 4 LCD conbtrol keys.

Accessories for LED- and LED/LCD keypads

013043 Case back flat, white

NEW

Case back with low installation depth suitable for holding fixture of front unit inclusive electronics for LED and LED / LCD keypad.
In order to create individual colour scheme to be combined with:
- LED front unit 013011, 013013, 013015
  and
- LED / LCD front unit 013021, 013023, 013025

Technical Data

Dimensions (W x H x D)	208 x 152 x 17 mm
Colour	traffic white (similar to RAL 9016)

013044 Case back flat, grey

NEW

Case back with low installation depth suitable for holding fixture of front unit inclusive electronics for LED and LED / LCD keypad.
In order to create individual colour scheme to be combined with:
- LED front unit 013011, 013013, 013015
  and
- LED / LCD front unit 013021, 013023, 013025

Technical Data

Dimensions (W x H x D)	208 x 152 x 17 mm
Colour	basaltgrau (ähnlich RAL 7012)

013045 Case back flat, black

NEW

Case back with low installation depth suitable for holding fixture of front unit inclusive electronics for LED and LED / LCD keypad.
In order to create individual colour scheme to be combined with:
- LED front unit 013011, 013013, 013015
  and
- LED / LCD front unit 013021, 013023, 013025

Technical Data

Dimensions (W x H x D)	208 x 152 x 17 mm
Colour	traffic black (similar to RAL 9017)

TouchCenter Tuxedo keypad complete set

013002 **Keypad TouchCenter Tuxedo, white**

NEW

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Complete set Touch keypad white, existing of:
- Touch bezel, white, item no. 013030
- Touch front unit incl. electronics, white, item no. 013031
- Case back deep, white, item no. 013040

To be used as replacement for “TouchCenter TFT BUS-2 graphic operating unit”, item no. 012577.10, with MB12/24/48/100 with the features of item no. 012577.10.

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	160 mA (when idle); 250 mA (max. screen brigthness); 310 mA (max. screen brigthness + buzzer)
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +60 °C
Environmental class as per VdS	II
Type of protection EN 60529	IP40
Screen diagonale	7” (17,78 cm)
Screen format	16 : 9
Dimensions (W x H x D)	218 x 162 x 35 mm
Colour	traffic white (similar to RAL 9016), optional basalt grey (similar to RAL 7012) or optional traffic black (similar to RAL 9017)

Performance Features

- Dialog managed intuitive user guidance via symbols
- Plain text display of all messages
- Clearly organised display of the system status
- Connection to the control panel via BUS-2
- 7” colour display with touch screen function
- Switchable display colour scheme
- Flash technology for updates
- Different languages possible
- Graphic can be displayed as background image (e.g. company logo/family coat of arms)
- Optical appreciation by use as electronic picture frame
- Slideshow functionality
- Max. size of SD card: 16 GB
- Up to 12 operating units can be connected to one control panel

Accessories:

013030	TouchCenter Tuxedo, bezel, white
013032	TouchCenter Tuxedo, bezel, grey
013034	TouchCenter Tuxedo, bezel, black
013036	TouchCenter Tuxedo, bezel, clear
013040	Case back deep, white
013041	Case back deep, grey
013042	Case back deep, black
013046	f. m. installation box, white
013047	f. m. installation box, grey
013048	f. m. installation box, black

TouchCenter Tuxedo combi system

For the individual colouring of a keypad 3 components per keypad are required:

- Bezel for Touch
- Front device for Touch
- Case back flat for Touch

For combination of LED keypads with a Touch keypad with surface mounting, the LED keypads require also a **deep** case back.

013031 TouchCenter Tuxedo, front device, including electronics, white

NEW

Front unit inclusive electronics for Touch keypad.
In order to create individual colour scheme to be combined with:
- Touch bezel 013030, 013032, 013034 or 013036
  and
- case back deep 013040, 013041 or 013042

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	160 mA (when idle); 250 mA (max. screen brigthness); 310 mA (max. screen brigthness + buzzer)
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +60 °C
Environmental class as per VdS	II
Type of protection EN 60529	IP 40
Screen diagonale	7” (17,78 cm)
Screen format	16 : 9
Dimensions (W x H x D)	218 x 162 x 35 mm
Colour	traffic white (similar to RAL 9016),

013033 TouchCenter Tuxedo, front device, including electronics, grey

NEW

Front unit inclusive electronics for Touch keypad.
In order to create individual colour scheme to be combined with:
- Touch bezel 013030, 013032, 013034 or 013036
  and
- case back deep 013040, 013041 or 013042

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	160 mA (when idle); 250 mA (max. screen brigthness); 310 mA (max. screen brigthness + buzzer)
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +60 °C
Environmental class as per VdS	II
Type of protection EN 60529	IP 40
Screen diagonale	7” (17,78 cm)
Screen format	16 : 9
Dimensions (W x H x D)	218 x 162 x 35 mm
Colour	basalt grey (similar to RAL 7012)

013035 **TouchCenter Tuxedo, front device, including electronics, black**

NEW

Front unit inclusive electronics for Touch keypad.
In order to create individual colour scheme to be combined with:
- Touch bezel 013030, 013032, 013034 or 013036
  and
- case back deep 013040, 013041 or 013042

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	160 mA (when idle); 250 mA (max. screen brigthness); 310 mA (max. screen brigthness + buzzer)
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +60 °C
Environmental class as per VdS	II
Type of protection EN 60529	IP 40
Screen diagonale	7” (17,78 cm)
Screen format	16 : 9
Dimensions (W x H x D)	218 x 162 x 35 mm
Colour	traffic black (similar to RAL 9017)

Accessories TouchCenter Tuxedo combi system

013030 TouchCenter Tuxedo, bezel, white

NEW

Bezel for LED keypad.
In order to create individual colour scheme to be combined with:
- Touch front unit 013031, 013033 or 013035
  and
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	traffic white (similar to RAL 9016)

013032 TouchCenter Tuxedo, bezel, grey

NEW

Bezel for LED keypad.
In order to create individual colour scheme to be combined with:
- Touch front unit 013031, 013033 or 013035
  and
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	basalt grey (similar to RAL 7012)

013034 TouchCenter Tuxedo, bezel, black

NEW

Bezel for LED keypad.
In order to create individual colour scheme to be combined with:
- Touch front unit 013031, 013033 or 013035
  and
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	traffic black (similar to RAL 9017)

013036 TouchCenter Tuxedo, bezel, clear

NEW

Bezel for LED keypad.
This bezel is clear and enables the user to create his/her own individual colouring.
To be printed on the back side.
In order to create individual colour scheme to be combined with:
- Touch front unit 013031, 013033 or 013035
  and
- case back deep 013040, 013041 or 013042

Technical Data

Dimensions (W x H x D)	212 x 156 x 3 mm
Colour	clear

Accessories TouchCenter Tuxedo, LED- and LED/LCD combi system

013040 Case back deep, white

NEW

Case back with high installation depth suitable for holding fixture of front unit inclusive electronics for LED, LED / LCD and Touch keypad.
In order to create individual colour scheme to be combined with:
- LED front unit 013011, 013013, 013015
- LED / LCD front unit 013021, 013023, 013025
- Touch front unit 013031, 013033, 013035

Technical Data

Dimensions (W x H x D)	208 x 152 x 30 mm
Colour	traffic white (similar to RAL 9016)

For combination of LED keypads with a Touch keypad with surface mounting, the LED keypads require also a **deep** case back.

013041 Case back deep, grey

NEW

Case back with high installation depth suitable for holding fixture of front unit inclusive electronics for LED, LED / LCD and Touch keypad.
In order to create individual colour scheme to be combined with:
- LED front unit 013011, 013013, 013015
- LED / LCD front unit 013021, 013023, 013025
- Touch front unit 013031, 013033, 013035

Technical Data

Dimensions (W x H x D)	208 x 152 x 30 mm
Colour	basalt grey (similar to RAL 7012)

For combination of LED keypads with a Touch keypad with surface mounting, the LED keypads require also a **deep** case back.

013042 Case back deep, black

NEW

Case back with high installation depth suitable for holding fixture of front unit inclusive electronics for LED, LED / LCD and Touch keypad.
In order to create individual colour scheme to be combined with:
- LED front unit 013011, 013013, 013015
- LED / LCD front unit 013021, 013023, 013025
- Touch front unit 013031, 013033, 013035

Technical Data

Dimensions (W x H x D)	208 x 152 x 30 mm
Colour	traffic black (ähnlich RAL 9017)

For combination of LED keypads with a Touch keypad with surface mounting, the LED keypads require also a **deep** case back.

013046 **f. m. installation box, white**

NEW

Installation box for flush mounting installation and installation into hollow walls. The f. m. installation box replaces the case back.
For single use or to be combined horizontally and/or vertically.

Technical Data

Dimensions (W x H x D)	217 x 162 x 32 mm
Colour	traffic white (similar to RAL 9016)

The flat or deep case back is not required for flush mounting installation.

- Combination elements
- Claws for hollow wall mounting

013047 **f. m. installation box, grey**

NEW

Installation box for flush mounting installation and installation into hollow walls. The f. m. installation box replaces the case back.
For single use or to be combined horizontally and/or vertically.

Technical Data

Dimensions (W x H x D)	217 x 162 x 32 mm
Colour	basalt grey (similar to RAL 7012)

The flat or deep case back is not required for flush mounting installation.

- Combination elements
- Claws for hollow wall mounting

013048 **f. m. installation box, black**

NEW

Installation box for flush mounting installation and installation into hollow walls. The f. m. installation box replaces the case back.
For single use or to be combined horizontally and/or vertically.

Technical Data

Dimensions (W x H x D)	217 x 162 x 32 mm
Colour	traffic black (similar to RAL 9017)

The flat or deep case back is not required for flush mounting installation.

- Combination elements
- Claws for hollow wall mounting

Readers

013060 mifare reader pcb for LED and LED /LCD keypad

NEU

Reader pcb add-on kit for LED and LED / LCD keypads.
Reading type: mifare DESFire EV1.

Available 3. quarter 2014.

013061 LEGIC reader pcb for LED and LED /LCD keypad

NEU

Reader pcb add-on kit for LED and LED / LCD keypads.
Reading type: LEGIC advant.

Available 3. quarter 2014.

013062 mifare reader pcb for touch keypad

NEU

Similar to original product

Reader pcb add-on kit for touch keypads.
Reading type: mifare DESFire EV1.

Available 3. quarter 2014.

013063 LEGIC reader pcb for touch keypad

NEU

Similar to original product

Reader pcb add-on kit for touch keypads.
Reading type: LEGIC advant.

Available 3. quarter 2014.

BUS users

013920 **Siren module for MB Secure**

NEW

Performance Features

- Operation on BUS-2 or alternatively on IB-Bus
- Easy mounting on the bottom of the panel housing or in a separate box
- 2 freely programmable analogue inputs, with reset function, e.g. for tamper output
- cover tamper
- pry-off tamper
- 3 freely programmable LEDs
- Up to 4 freely programmable outputs (active high) when using 048720.17

VdS **Approval** **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Integrated electronic module in housing for connection of acoustic siganalling devices and flash lights.

The module can be installed within the panel housing or decentralized near to the corresponding alarm device. In each case, monitoring is done by the BUS system of the panel.

The sirene module provides the basic connection possibillities:

Honeywell:

Compact alarming device 048720.17 (flasher with acoustic signalling device) and additional acoustic signalling device 048700.17.

Compact signallling device 160455.10:

(Flasher with acoustic signalling device) and additional acoustic signalling device 160456.10. With this configuration it will be distinguished between intruder/hold-up alarm, fire alarm and technique alarm.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10,5 V DC to 15 VDC
Current consumption at 12 V DC	
- inactive / detector zone open, LEDs off	55 mA
- active with Honeywell 048700.17 / 048720.17	max 1 A
- active with ESSER 160455.10 / 160456.10	max. 1,1 A
- analog outputs A1 ... A4, high activ	500 mA
Type of protection according to DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature	-25 °C to +70 °C
Dimensions PCB	121 x 90 mm
Dimensions housing (W x H x D)	163 x 151 x 39 mm
Colour of housing	traffic white (similar to RAL 9016)

Power Supplies

Fully electronic, voltage stabilized and current limiting power supply/charger unit for stand by parallel operation with deep discharging protection, batteriy monitoring and battery defect recognition, designed for max. 26 Ah battery capacity. The power supply can be used with the hazard systems:

- MB-Secure IACP series
- MB-IACP series
- ACS-8 A ACS-2 plus access control systems

The power supply / charger unit provides an integrated BUS-2 interface and can also be used as a remote power supply. The BUS-2 interface is also used for wire saving transmission of all status messages to the MB-Secure panel. Additionally there are 3 LEDs for fault identification.

013950 Power supply/charger unit 12 V DC / 26 Ah

NEW

VdS **Approval** **VdS-Class C (applied)**
EN 50131-6

Technical Data

Rated operating voltage	110 V / 230 V AC
Operating voltage range	90 V to 265 V AC
Frequency	50 Hz to 60 Hz
Power consumption	typ. 45 W / 92 VA
Maximum constant current	1,5 A
Short-duration continuous current consumption (max. 5 minutes)	2,0 A max. (with charged accum.)
Maximum charging current	1,3 A
Battery capacity according to VdS	26 Ah max.
No. of batteries connectable	1 max.
Possible accumulator combinations	e. g. 1x10 / 1x17 / 1x24 / 1x26 Ah
Current drain according to VdS	for 60 hours at 26 Ah accumulator capacity approx 430 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Dimensions (L x W)	215 x 92,5 mm

Performance Features

- BUS-2 communication with MB-Secure
- Permanent battery monitoring of 1 battery
- Temperature-guided battery charging voltage
- Voltage stabilized with current limiting
- Deep discharge protection
- Charging connection monitoring
- Battery defect recognition
- EN 50131-6 compliant

Accessories:

010693 NTC temperature sensor

013960 Power supply/charger unit 12 V DC / 52 Ah

NEW

VdS **Approval** **VdS-Class C (applied)**
EN 50131-6

Technical Data

Rated operating voltage	110 V / 230 V AC
Operating voltage range	90 V to 265 V AC
Frequency	50 Hz to 60 Hz
Power consumption	typ. 90 W / 190 VA
Maximum constant current	3 A
Short-duration continuous current consumption (max. 5 minutes)	3,5 A max. (with charged accum.)
Maximum charging current	2,6 A
Battery capacity according to VdS	52 Ah max.
No. of batteries connectable	2 max.
Possible accumulator combinations	e. g. 2x10 / 2x17 / 2x24 / 2x26 / 1x38 Ah
Current drain according to VdS	for 60 hours at 52 Ah accumulator capacity approx 860 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Dimensions (L x W)	215 x 92,5 mm

Performance Features

- BUS-2 communication with MB-Secure
- Permanent battery monitoring of 2 batteries
- Temperature-guided battery charging voltage
- Voltage stabilized with current limiting
- Deep discharge protection
- Charging connection monitoring
- Battery defect recognition
- EN 50131-6 compliant

Accessories:

010693 NTC temperature sensor

013970 Power supply/charger unit 18Ah 1,5A

NEW

Approval **VdS-Class A (pending)**
EN 50131-6

Fully electronic, voltage stabilized and current limiting power supply/charger unit for stand by parallel operation with deep discharging protection, batteriy monitoring and battery defect recognition, designed for max. 18 Ah battery capacity. The power supply can be used with the MB-Secure IACP series in combination with the 013730 (ZG20) housing.

Connection is done directly to the power supply connector of the MB-Secure. Additionally there are 2 LEDs for stus and fault identification are available.

The panel is connected with a 4-wire flat ribbon cable with the signals +12 V, 0 V, “S” (Fault) and “N” (Mains).

Available 2. quarter 2014.

Performance Features

- Permanent battery monitoring
- Temperature-guided battery charging voltage
- Voltage stabilized with current limiting
- Deep discharge protection
- Charging connection monitoring
- Battery defect recognition
- EN 50131-6 grade 2 compliant
- Fits to Item no. 013730 ZG30 housing

013975 Power supply/charger unit 8Ah 1,5A

NEW

Fully electronic, voltage stabilized and current limiting power supply/charger unit for stand by parallel operation with deep discharging protection, batteriy monitoring and battery defect recognition, designed for max. 8 Ah battery capacity.

Additionally there are 2 LEDs for stus and fault identification are available.

The power supply provides +12 V and 0 V. The mains and fault status is displayed via LEDs.

Available 2. quarter 2014.

Performance Features

- Permanent battery monitoring
- Temperature-guided battery charging voltage
- Voltage stabilized with current limiting
- Fault indication via LED only
- Deep discharge protection
- Charging connection monitoring
- Battery defect recognition
- EN 50131-6 compliant

Intruder alarm control panel MB12

Performance Features

- 32 BUS-1 users and 32 BUS-2 users can be connected
- up to 1 main zone with 1 secondary zone can be defined
- 1 to 12 detector groups (freely programmable)
- sensitivity of the detector groups is programmable
- automatic adjustment of the detector groups
- 8 conventional detector groups inputs, 4 of which include an clearing/reset function
- 1 RS-485 Interface for connection of up to 2 readers Accentic, Classic, Insertic
- 1 block lock/external operating unit connection
- 2 BUS-1 connections
- 2 BUS-2 connections
- 1 additional BUS-2 connection for dialler/modem
- 10 active semiconductor outputs 12 V DC
- 6 active semiconductor outputs 0V
- 1 relay 230 V AC / 5 A
- 1 relay 24 V DC / 1 A
- connections for 2 acoustical alarm devices and 1 optical alarm device
- 2 texts of 40 characters each for areas
- 12 detector group texts of 40 characters each
- freely programmable inputs and outputs
- 255 input texts of 40 characters each
- up to 2 external switching devices
- 1 to 16 intelligent operating units on BUS-2
- simple operating units on BUS-1
- 16 operating codes
- 32 data carriers possible
- 32 texts for IDENT-KEY data carrier of 40 characters each
- event memory for 15,000 entries
- selective standard programming possible
- integrated electronics for siren actuation
- 10 links programmable
- 20 macros for special functions
- 64 room/time zones programmable
- expandable by BUS-2 radio components (max. 32)
- reason of arming prevention is displayed in the event memory (max. 5 reasons)
- max. 10 RF Panic Buttons usable
- use of the smartphone-app in conjunction with the transimission device DS 6700, DS 6750 or DS 7700
- Mounting of RFW-4000 in the central housing possible

The MB12 intrusion detection control panel has been designed for use in the private sector and corresponds to VdS class A intrusion detection and VDE-0833.

Many functions of the control panel are freely programmable via the plain text operating unit. Programming can be done comprehensively and conveniently via a PC in connection with the software package WINFEM Advanced which also supports the printing of the event meory log.

The control panel has an event memory for 15,000 events. The event memory can be displayed via LCD and graphic operating units and via WINFEM Advanced.

The control panel contains 8 conventional detector groups inputs. By incorporating the BUS-1 and BUS-2 users, a total of 12 detector groups can be obtained. The groups can be distributed over a maximum of 2 zones, allowing 1 main zone with max. 1 secondary zone. Also the direct connection of up to 2 readers of the Accentic, Classic or Insertic range on the panel is possible.

In conjunction with a transmission device DS 6700, DS 6750 or DS 7700, the Honeywell App (Android and iOS) for smartphones/smarttabs provides anytime access to the control panel in the area of mobile communication.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC / -15% to +10%
Mains frequency	50 Hz
Rated operating voltage	12 V DC
Rated operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V
Current consumption at rated voltage	100 mA disarmed open detector group connections, 1 mA per detector group connection (terminated with 12.1 kOhm), 18 mA small relay, 45 mA large relay
Battery charge current	max. 800 mA
Max. battery space	2 x 7.5 Ah or 1 x 17 Ah
Continuous current drain	1.2 A max. (w/o external signalling device)
Current drain	2.0 A max. 3 minutes (external signalling device included)
Environmental class as per VdS	II
Type of protection EN 60529	IP30
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	415 x 279 x 96 mm
Weight	5,2 kg
Colour	light grey, similar to RAL 7035

Accessories:

013498	PC parameterization software WINFEM Advanced
026809	Serial programming cable
013467.10	USB adapter box (USB 1.1 compatible)
018007.10	Accumulator 12 V / min. 17 Ah, 4.8 mm plug
018004.10	12 V accumulator / capacity 6.5 Ah
012540.17	2 x 40-digit LCD operating unit, surface-mounted, with flap
012541.17	2 x 40-digit LCD operating unit, surface-mounted, without flap
012532.17	8-detector group compact operating unit with disabling unit, surface-mounted
012542.17	16-detector group disable and display module, surface-mounted
012544.17	16-detector group operating unit (10 detector groups can be disabled), surface-mounted
012548.17	16-detector group display module, surface-mounted
013002	Keypad TouchCenter Tuxedo, white
010935	Compact operating
057872.20	DS 9600 ISDN transmission device
057860	DS 6600 Analog transmission device
057650.20	DS 7600 ISDN transmission device
057651.20	DS 7700 ISDN/IP transmission device
057864	DS 6700 PSTN/IP transmission device
057865	DS 6750 PSTN/IP transmission device
012835	Mechanical kit for MB12/561-MB24 for installing diallers

012820 **IACP MB12 Bundle with LCD Operating Unit**

Approval **G111701 (IDT), Class A**

With LCD operating unit 012540.17 (german).

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

MB12 panel and LCD operating unit, 2 x 40 digits (012540.17, german).

012821 **IACP MB12 Bundle with LED Operating Unit**

Approval **G111701 (IDT), Class A**

With LED operating unit 012544.17 (german)

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

MB12 panel and 10-detector group operating unit (012544.17, german).

012822 **IACP MB12, Bundle with Compact Operating Unit**

Approval **G111701 (IDT), Class A**

With LED compact operating unit 010935.

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

MB12 panel and compact operating unit (010935).

012823.10 **IACP MB12 Bundle with Keypad TouchCenter Tuxedo, white**

NEW

Approval **G111701 (IDT), Class A**

With Keypad TouchCenter Tuxedo, white, 013002.

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

MB12 panel and Keypad TouchCenter Tuxedo, white, (013002).

561-MB24

Performance Features

- 63 BUS-1 users and 64 BUS-2 users can be connected
- 2 main areas/zones are possible
- 7 secondary areas/zones can be defined
- 24 detector groups (freely programmable)
- sensitivity of the detector groups is programmable
- automatic adjustment of the detector groups
- 8 conventional detector groups, 4 of which include an clearing function
- 1 block lock/external operating unit connection
- 2 BUS-1 connections
- 2 BUS-2 connections
- 1 additional BUS-2 connection for dialler/modem
- 10 semiconductor outputs active 12 V DC
- 6 semiconductor outputs active 0V
- 1 relay 230 V AC / 5 A
- 1 relay 24 V DC / 1 A
- connections for 2 acoustical signalling devices and 1 optical signalling device
- 8 zone texts of 40 characters each
- 24 detector group texts of 40 characters each
- freely programmable inputs and outputs
- 255 input texts of 40 characters each
- 8 external switching devices
- 8 door control devices (for Doorguard BUS-2)
- 16 operating units on BUS-2
- simple operating units on BUS-1
- 16 operating codes
- 32 data carriers possible
- 32 texts for IDENT-KEY of 40 characters each
- event memory for 15,000 entries
- selective standard programming possible
- integrated electronics for siren actuation
- 10 links programmable
- 20 macros for special functions
- approval for Austria (VSÖ class WS)
- 64 room/time zones programmable
- expandable by BUS-2 radio components (max. 64)
- extensive access control functionality (multiple person AC, etc.)
- reason of arming prevention is displayed in the event memory (max. 5 reasons)
- 10 RF Panic Buttos usable
- use of the smartphone-app in conjunction with the transimission device DS 6700, DS 6750 or DS 7700
- Mounting of RFW-4000 in the central housing possible

The 561-MB24 intruder alarm control panel is designed for use in the private and small scale industry sectors and corresponds to VdS class C intrusion detection and access control systems, VDE 0833 and in Austria to VSÖ class WS.

Many functions of the control panel are freely programmable via the plain text operating unit. Programming can be done comprehensively and conveniently via a PC in connection with the software package WINFEM Advanced. For the management of the data carrier authorisations, IQ MultiAccess and IQ SystemControl are available as options.

The control panel has an event memory for 15,000 events. The event memory can be displayed via LCD and graphic operating units and via WINFEM Advanced or IQ MultiAccess / IQ SystemControl.

The control panel contains 8 conventional detector groups. By incorporating the BUS-1 and BUS-2 users, a total of 24 detector groups can be obtained. The groups can be distributed over a maximum of 8 zones, allowing the following main/secondary zone structures:

- 1 main zone containing a maximum of 7 secondary zones;
- 2 main zones containing a total of no more than 6 secondary zones

In conjunction with a transmission device DS 6700, DS 6750 or DS 7700, the Honeywell App (Android and iOS) for smartphones/smarttabs provides anytime access to the control panel in the area of mobile communication.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC/ -15% to +10%
Mains frequency	50 Hz
Rated operating voltage	12 V DC
Rated operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption at rated voltage	100 mA disarmed open detector group connections, 1 mA per detector group connection (terminated with 12.1 kOhm), 18 mA small relay, 45 mA large relay
Battery charge current	max. 800 mA
Max. battery space	2 x 7.5 Ah or 1 x 17 Ah
Continuous current drain	1.2 A max. (w/o external signalling devices)
Current consumption	2.0 A max. 3 minutes (external signalling devices included)
Environmental class as per VdS	II
Type of protection EN 60529	IP30
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	415 x 279 x 96 mm
Weight	5.2 kg
Colour	light grey, similar to RAL 7035

Accessories:

013498	PC parameterization software WINFEM Advanced
026809	Serial programming cable
013467.10	USB adapter box (USB 1.1 compatible)
018007.10	Accumulator 12 V / at least 17 Ah, connection 4.8 mm plug
018004.10	12 V accumulator / capacity 6.5 Ah
012540.17	2 x 40-digit LCD operating unit, surface-mounted, with flap
012541.17	2 x 40-digit LCD operating unit, surface-mounted, without flap
012532.17	8-detector group compact operating unit with disabling unit, surface-mounted
012542.17	16-detector group disable and display module, surface-mounted
012544.17	16-detector group operating unit (10 detector groups can be disabled), surface-mounted
012548.17	16-detector group display module, surface-mounted
013002	Keypad TouchCenter Tuxedo, white
010935	Compact operating unit for HB/MB24 control panels
013596	User software IQ SystemControl
057872.20	DS 9600 ISDN transmission device
057860	DS 6600 Analog transmission device
057650.20	DS 7600 ISDN transmission device
057651.20	DS 7700 ISDN/IP transmission device
057864	DS 6700 PSTN/IP transmission device
057865	DS 6750 PSTN/IP transmission device
012835	Mechanical kit for MB24 for installing diallers

012830 **IACP 561-MB24**

Approval **G103013 (IDT), Class C; Z105003 (AC), Class C; VSÖ W 031210/86 E**

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

Computer/connection pcb 011890.01 with integrated power supply/charging unit, metal housing.

012831 **IACP 561-MB24 “bundle LCD”**

Approval **G103013 (IDT), Class C; Z105003 (AC) Class C; VSÖ W 031210/86 E**

With LCD operating unit.

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

561-MB24 panel (012830) and LCD operating unit, 2 x 40 digits (012540.17).

012832 **IACP 561-MB24 “bundle LED”**

Approval **G103013 (EMT), Class C; Z105003 (Access Control) Class C; VSÖ W 031210/86 E**

With LED operating unit.

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

561-MB24 panel (012830) and 10-detector group operating unit (012544.17).

012833 **IACP 561-MB24 “bundle LCD/DS/IK3”**

Approval **G103013 (IDT), Class C; Z105003 (AC) Class C; VSÖ W 031210/86 E**

With LCD operating unit, DS 9600 ISDN transmission device with AWAG function and IK3 evaluation unit BUS-2.

Max. battery space for 2 x 6,5 Ah or 1 x 17 Ah.

561-MB24 panel (012830); DS 9600 ISDN transmission device (057872.20); IK3 evaluation unit BUS-2 (023312.17); LCD operating unit, 2 x 40 digits (012540.17).

012834.10 **IACP 561-MB24 “bundle Touch/IK3”**

NEW

Approval **G103013 (IDT), Class C; Z105003 (AC) Class C; VSÖ W 031210/86 E**

With BUS-2 Keypad TouchCenter Tuxedo, white and IK3 evaluation unit BUS-2.

Max. battery space for 2 x 6,5 Ah or 1 x 17 Ah.

561-MB24 panel (012830); BUS-2 Keypad TouchCenter Tuxedo, white (013002); IK3 evaluation unit BUS-2 (023312.17).

Digital transmission

057872.20 **DS 9600 ISDN transmission device with dialler function for MB24**

Performance Features

- ISDN B-channel VdS 2465
- ISDN B-channel Telim
- ISDN B-channel plain text transmission (dialler function)
- SMS via ISDN
- e* cityruf (alphanumeric or tone only)
- Voice transmission via standard texts and DTMF detection without additional extensions
- Up to 4 individual texts of 3 sec. each can be voice recorded by ISDN telephone
- VdS approval

Additional performance features of ISDN multi-point configuration:

- Remote control options in conjunction with voice and telephone keypad (DTMF detection)
- Modem function for remote access to the connected hazard detection control panel
- Extensive remote service and remote diagnosis options
- Can be used for connecting IQ MultiAccess and IQ SystemControl

VdS **Approval** **G107802 (IDT), transmission device**

The DS 9600 is operated in the ISDN network. It is used for digital transmission of technical faults, hazard messages and emergency calls and for remote parameterisation, remote maintenance and remote diagnosis of the connected intrusion detection system 561-MB24.

The performance features for the remote control functions and the remote parameterisation require an ISDN multipoint interface. A point-to-point connection having the desired remote maintenance functionality requires, for example, the use of the transmission device DS 7600.

It is connected to ISDN-capable alarm receivers, for example DEZ 9000 or to TELIM-compatible alarm receivers. It can be used for connecting IQ MultiAccess and IQ SystemControl.

It is equipped with an integrated dialler and paging device and allows remote control functions and remote inquiries to be executed from any phone or mobile phone. It uses language-controlled user guidance as known from operating a mailbox.

The AWAG function, that is, the transmission of voice messages via ISDN to any telephone connection, has been completely integrated into the DS 9600. Speech memories containing previously prepared standard texts for 9 transmission channels are available.

When the dialler is connected to the MB control panel via a serial interface, its 100 output criteria can be assigned to the 9 transmission channels as desired.

Additional texts each about 3 sec. long can be freely supplemented in 4 of these 9 transmission channels. The supplementary text is dictated via a phone.

For the use of the DS 9600 as integration module in the intrusion detection control panel 561-MB24, the IDCP RS-232 interface with an extended range of functions is available. This makes it possible to operate several connections in parallel via ISDN. The USB interface of the transmission device can be used in this connection for programming the control panel.

The transmission device DS 9600 also has a BUS-2 interface. This enables its integration into older control panel systems of the HB24 series via a compatibility mode (with a reduced range of functions).

The application-specific data are conveniently programmed via WINFEM Advanced.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption	100 mA
Environmental class as per VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Dimensions PCB (L x W)	158 x 112 mm

ISDN connecting cable.
Serial connecting cable to intrusion detection control panel.
Mechanical kit for installing diallers (012835).

561-MB48

Performance Features

- in its standard configuration, 63 BUS-1 users and 64 BUS-2 users can be connected
- modular extension possible
- 4 main zones are possible
- 15 secondary zones can be defined
- 48 detector groups (freely programmable)
- automatic adjustment of the detector groups
- sensitivity of the detector groups programmable
- freely programmable inputs and outputs
- 48 detector group texts
- 255 input texts
- 16 external switching devices
- 8 door control devices (for Doorguard BUS-2)
- 24 operating units on BUS-2
- 32 operating codes
- 128 data carriers possible
- 15,000 events in the event memory
- 4 x 10 events in the alarm memory
- standard programming for certain program parts possible
- integrated electronics for siren actuation
- 8 conventional detector group inputs / 4 of which include a clearing device
- max. 24 conventional detector group inputs
- 1 block lock/external operating unit connection
- 2 non-reactive BUS-1 connections for a total of 63 bus addresses
- 2 non-reactive BUS-2 connections for a total of 64 bus addresses
- 1 BUS-2 connection for internal transmission device/modem
- 10 semiconductor outputs active 12 V DC
- 6 semiconductor outputs active 0 V
- 1 relay 230 V AC / 5 A
- 1 relay 24 V AC / 1 A
- 1 connecting plug for extension modules
- parallel printer connection
- connections for 2 acoustic signalling devices and 1 optical signalling device
- IGIS-LOOP can be integrated
- 16 RF Panic Button usable
- 64 room/time zones programmable
- expandable by BUS-2 radio components (max. 128)
- extensive access control functionality (multiple person AC, etc.)
- reason for arming prevention is displayed in the event memory (max. 5 reasons)
- max. 16 RF Panic Buttons usable
- use of the smartphone-app in conjunction with the transimission device DS 6700, DS 6750 or DS 7700

The intruder alarm control panel 561-MB48 complies with the latest guidelines of the VdS risk class C for intrusion detection and access control systems as well as with the VDE regulations 0833.

Many functions of the control panel are freely programmable via the plain text operating unit. Programming can be done comprehensively and conveniently via a PC in connection with the software package WINFEM Advanced. For the management of the data carrier authorisations, IQ MultiAccess and IQ SystemControl are available as options.

The control panel has an event memory for 15,000 events. The event memory can be displayed via LCD and graphic operating units and via WINFEM Advanced or IQ MultiAccess. A connected printer allows the event memory to be printed out continuously or when required.

By incorporating conventional detectors and the BUS-1 and BUS-2 users, a total of 48 detector groups can be obtained. The detector groups can be distributed over a maximum of 16 zones, allowing the following main/secondary zone structures: 1 main zone with max. 15 secondary zones; 2 main zones with a total of max. 14 secondary zones; 3 main zones with a total of max.13 secondary zones; 4 main zones with a total of max. 12 secondary zones.

In conjunction with a transmission device DS 6700, DS 6750 or DS 7700, the Honeywell App (Android and iOS) for smartphones/smarttabs provides anytime access to the control panel in the area of mobile communication.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC / -15% to +10%
Mains frequency	50 Hz
Power consumption	36 VA
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption at rated voltage	100 mA disarmed, detector group connections open, 1 mA detector group connections terminated with 12,1 kOhm terminating resistor, 18 mA relay small, 45 mA relay large
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Type of protection EN 60529	IP30
Dimensions (W x H x D)	500 x 300 x 210 mm
Colour of housing	grey white, similar to RAL 9002
Colour of front plate	signal grey, similar to RAL 7004

Accessories:

013100.04	16-detector group input module type A
013320.03	16-detector group input module type B
013100.05	2-block lock connection / 10-detector group input module
013220.11	BUS-1 module
013220.07	BUS-2 module
013220.07.10	BUS-2 loop module
013330.10	IGIS-LOOP Controller
013100.08	Relay extension module
070478	Group relay card
013220.14	Connection PCB for table-top printers
013100.10	Connecting cable set 40 mm/250 mm
013100.11	Connecting cable 400 mm
013100.12	Connecting cable 250 mm
010686.01	Power supply/charger unit 12 V DC / 17 Ah
010690.01	Power supply/charger unit 12 V DC / 32 Ah
010690.02	Power supply/charger unit 12 V DC / 40 Ah
012170	Power supply/charger unit 12 V DC / 130 Ah
050019	Distributor block
028050	VdS housing lock
057860	DS 6600 Analog transmission device
057871.20	DS 9500 ISDN transmission device
057650.20	DS 7600 ISDN transmission device
057651.20	DS 7700 ISDN/IP transmission device
057864	DS 6700 PSTN/IP transmission device
057865	DS 6750 PSTN/IP transmission device
012540.17	2 x 40-digit LCD operating unit, surface-mountedincluding flap
012541.17	2 x 40-digit LCD operating unit, surface-mounted excluding flap
012532.17	8-DG compact operating unit with disabling unit, surface-mounted
012542.17	16-DG disable and display module, surface-mounted
012544.17	10-DG operating unit with disabling unit, surface-mounted
012548.17	16-DG display module, surface-mounted
013002	Keypad TouchCenter Tuxedo, white,
010935	Compact operating unit for control panel HB48/MB48
013498	PC parameterization software WINFEM Advanced
013596	User software IQ SystemControl
026809	Serial programming cable
013467.10	USB adapter box (USB 1.1 compatible)

012911 **IACP 561-MB48 in ZG3.1**

Approval **G105094 (IDT), Class C**
Z105011 (AC), Class C
VSÖ W 070427/17 E

Technical Data

Dimensions (W x H x D)	500 x 300 x 210 mm

Max. accumulator space 2 x 17 Ah or 1 x 24 Ah; space for 2 options; space for power supply unit.

Housing ZG 3.1; front plate 6 HU; computer PCB 011910.10.01; connection PCB 011910.02.

Extension examples intruder alarm control panel 561-MB48

315 BUS-1 devices
128 BUS-2 devices

63 BUS-1 devices
128 BUS-2 devices
communication modules

63 BUS-1 devices
128 BUS-2 devices (max. 64 of them via loop)
Access to the IGIS-LOOP network

561-MB100

Performance Features

- in its basic configuration, 63 BUS-1 users and 64 BUS-2 users can be connected
- modular extension possible
- up to 16 main zones are possible
- up to 63 secondary zones can be defined
- 512 detector groups can be programmed
- 8 conventional detector group inputs
- 1 block lock connection
- up to 567 BUS-1 users can be connected
- IGIS can be integrated
- 64 arming devices can be programmed
- up to 512 BUS-2 users can be connected
- suitable for police emergency calls
- available with integrated printer
- operator guidance through plain text display
- 5 user levels of authorisation
- 128 Access codes
- up to a maximum of 56 detector groups in conventional connection technology or a maximum of 512 detector groups with BUS-1 and BUS-2 users
- automatic adjustment of the detector groups
- freely programmable inputs and outputs
- allocation of several group inputs to one detector group
- standard programming for certain program parts possible
- sensitivity of the detector groups is programmable
- automatic maintenance interval display
- event memory for 15,000 entries
- 1024 data carriers possible
- transmission devices can be integrated
- 64 room/time zones programmable
- expandable by BUS-2 radio components (max. 256)
- extensive access control functionality (Multiple person AC, etc.)
- reason for arming prevention is displayed in the event memory (max. 5 reasons)
- max. 32 RF Panic Buttons usable
- use of the smartphone-app in conjunction with the transimission device DS 6700, DS 6750 or DS 7700

The intruder alarm control panel 561-MB100 complies with the latest guidelines of the VdS risk class C for intrusion detection and access control systems and with the VDE regulations 0833.

The corresponding modules allow a total of 512 detector groups to be realised, allowing up to 56 conventional detector group inputs. Of these, several detector group inputs and/or BUS users can be allocated to one detector group. This makes it possible to establish logical relationships of the individual detector groups to the object-specific requirements. A later extension to a maximum of 16 main zones is possible by means of the modular system. The detector groups can be distributed among a maximum of 64 zones.

The programming of the control panel can be done conveniently via a Windows PC using the software WINFEM Advanced. Remote programming and remote diagnostics are also possible. Alternatively, many functions can be programmed via an operating unit. For the management of the data carrier authorisations, IQ MultiAccess and IQ SystemControl are available as options.

The control panel has an event memory for 15,000 events. The event memory can be displayed via LCD and graphic operating units and via WINFEM Advanced or IQ MultiAccess / IQ SystemControl. A connected printer allows the event memory to be printed out continuously or when required.

The system is prepared for connecting additional devices, such as printers, IGIS components, transmission devices, more powerful power supplies and relay additional boards.

Since the 561-MB100 is equipped with the option of changing the language for operating and display texts, it can also be widely used internationally. Many language versions have already been developed and implemented in the control panel.

In conjunction with a transmission device DS 6700, DS 6750 or DS 7700, the Honeywell App (Android and iOS) for smartphones/smarttabs provides anytime access to the control panel in the area of mobile communication.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC / -15% to +10%
Mains frequency	50 Hz
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption at rated voltage	100 mA disarmed, detector group connections open, 1 mA detector group connection with 12.1 kOhm terminal resistor, 5 mA per LED diplay, 18 mA relay small, 45 mA relay large
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Type of protection EN 60529	IP30
Housing ZG 3.1 dimensions (W x H x D)	500 x 300 x 210 mm
Housing ZG 4 dimensions (W x H x D)	580 x 640 x 300 mm
Colour of housing	grey white, similar to RAL 9002
Colour of front plate	signal grey, similar to RAL 7004

Accessories

	Conventional configuration
013100.05	2-Block lock /10-detector group input module
013100.04	16-detector group input module type A
013320.03	16-detector group input module type B
	Housing
050055	19” housing ZG 4
050057	19” housing ZG 6
013106	Mounting plate for connection PCB and options in 19” housings
013118	19” dummy plate 6 HE, signal-grey
013119	19” dummy plate 3 HE, signal-grey
	Relay extension
013100.08	Relay extension for IACP 561-MB100, 4 relays 250 V/5A and 2 slots
070478	Group relay card, 4 relays 24V/1A
	Printer accessories
013220.14	Connection PCB for table-top printers
013900	40-digit alphanumeric heat transfer printer, motor-driven coiling
	BUS-1 extension to 567 users
013220.11	BUS-1 module for a max. of 252 users
	BUS-2 extension to 512 users
013220.07	BUS-2 module for 64 users
	BUS-2 loop extension
013220.07.10	BUS-2 loop module for 64 users
	IGIS configuration
013330.10	IGIS-LOOP Controller
	Ethernet connection module
013336	Adapter card for IGIS-LOOP Controller to include another Ethernet interface
	Connecting cable
013100.10	Connecting cable set 40 mm / 250 mm
013100.12	Connecting cable 250 mm
013100.11	Connecting cable 400 mm
013100.14	Connecting cable 650 mm
013100.13	Connecting cable 1000 mm

	Power supply/charger units
010686.01	Power supply/charger unit 12 V DC / 17 Ah
010690.01	Power supply/charger unit 12 V DC / 32 Ah
010690.02	Power supply/charger unit 12 V DC / 40 Ah
012168	Power supply/charger unit 12 V DC / 80 Ah
012170	Power supply/charger unit 12 V DC / 130 Ah
050019	Distributor block
	VdS kit for commercial use
028050	VdS housing lock
	RDT/transmission devices
057860	DS 6600 Analog transmission device
057871.20	DS 9500 ISDN transmission device
057650.20	DS 7600 ISDN transmission device
057651.20	DS 7700 ISDN/IP transmission device
057864	DS 6700 PSTN/IP transmission device
057865	DS 6750 PSTN/IP transmission device
	BUS-2 operating units
012540.17	2 x 40-digit LCD operating unit, including flap
012541.17	2 x 40-digit LCD operating unit, excluding flap
012532.17	8-DG compact operating unit with disabling unit
012542.17	16-DG disable and display module
012544.17	10-DG operating unit with disabling unit
012548.17	16-DG display module
012546.17	Flush-mounted mounting kit for: 012540.17, 012541.17, 012532.17, 012542.17, 012544.17, 012548.17
013002	Keypad TouchCenter Tuxedo, white
	WINFEM control panel programming
013498	PC parameterization software WINFEM Advanced
026809	Serial programming cable
013467.10	USB adapter box (USB 1.1 compatible)
013596	User software IQ SystemControl

013201.10 **IACP 561-MB100 in ZG3.1**

VdS **Approval** **G193040 (IDT), Class C, Z105002 (AC), Class C; VSÖ W 031210/05 E**

Space for 2 options; space for power supply unit; max. accumulator space 2 x 17 Ah or 1 x 24 Ah.

Housing ZG3.1; front plate 6 HU; computer PCB 013200.10.01; connection PCB 011910.02.

013202.10 **IACP 561-MB100 in ZG3.1, incl. printer**

VdS **Approval** **G193040 (IDT), Class C; Z105002 (AC), Class C VSÖ W 031210/05 E**

Space for 2 options; space for power supply unit; max. accumulator space 2 x 10 Ah or 1 x 24 Ah.

Housing ZG3.1 front plate 6 HU with integreated heat transfer printer; computer PCB 013200.10.01; connection PCB 011910.02.

013203.10 IACP 561-MB100 in ZG4

Approval **G193040 (IDT), Class C; Z105002 (AC), Class C VSÖ W 031210/05 E**

Space for 8 options; space for power supply unit; max. accumulator space 2 x 65 Ah.

Housing ZG4 front plate 6 HU; lower dummy plate, 6 HE; computer PCB 013200.10.01; connection PCB 011910.02.

013204.10 IACP 561-MB100 in ZG4, incl. printer

Approval **G193040 (IDT), Class C; Z105002 (AC), Class C: VSÖ W031210/05 E**

Space for 8 options; space for power supply unit; max. accumulator space 2 x 65 Ah.

Housing ZG4 front plate 6 HU with integrated heat transfer printer; lower dummy plate, 6 HE; computer PCB 013200.10.01; connection PCB 011910.02.

013208.10 IACP 561-MB100, 19", incl. LCD operating unit

Front plate 6 HU with integrated operating unit; computer PCB 013200.10.01; connection PCB 011910.02.

013209.10 **IACP 561-MB100, 19", incl. LCD operating unit and printer**

Front plate 6 HU with integrated operating unit and heat transfer printer; computer PCB 013200.10.01; connection PCB 011910.02.

013106 **Rear wall mounting plate for 19" rear wall mounting**

12 HU

Modules for 561-MB48 and MB100

A modular extension has the advantage that the security system can be optimally adapted to the building conditions. This also facilitates a later system extension. Different modules of identical dimensions are available. The rear walls of the individual housing types are designed for plug-in of these modules. The arrangement of the modules within the housing can be done individually.

013100.04 **16-detector group input module type A**

The module contains 16 group inputs with a protective circuit, 12 of which are provided with clearing transistors.

The reference voltage is adjustable. Each group is adjusted automatically to the terminating resistor. The response sensitivity of the groups is adjustable.

The groups can be assigned to any functions and can also be used as connection option for door code devices or of any contacts for control purposes.

Also available are 4 programmable semiconductor outputs active 12 V DC / 50 mA.

Technical Data

Current consumption	approx. 1 mA per terminated detector group

013320.03 **16-detector group input module type B**

The module has 16 group inputs with a protection circuit. The reference voltage is adjustable. Each group can be adjusted to the terminating resistor. The response sensitivity of the groups is adjustable.

The groups can be assigned to any functions and can also be used for connecting any contacts for control purposes.

Also available are 16 programmable semiconductor outputs active 12 V DC / 50 mA.

Technical Data

Current consumption	approx. 1 mA per terminated detector group

013100.05 2-block lock /10-detector group input module

The module has 10 detector group inputs and 2 connections for monitored block locks or external operating units. For each lock, a connection for housing monitoring is available. The locks can be programmed as main block lock or door lock. Within a main zone, different dependencies of the door locks can be programmed.

Also available are 10 programmable semiconductor outputs:

- 4 active 12 V DC/50 mA semiconductor outputs
- 6 active 0 V / active 12 V DC / 50 mA semiconductor outputs

Technical Data

Current consumption per connected block lock	3 mA
Current consumption per terminated input	1 mA

013220.11 BUS-1 module

Module for connecting BUS-1 users. 4 independent individually fuse-protected connections are available for BUS-1 users. For each connection, 63 users are possible.

Technical Data

Current consumption	30 mA

013220.07 BUS-2 module

Module for connecting BUS-2 users. 4 connections decoupled from one another are available for a total of 64 BUS-2 users.

Technical Data

Current consumption	30 mA

013220.07.10 BUS-2 loop module

The BUS-2 loop module can be used to set up, in connection with the BUS-2 isolation module (item no. 013128), a BUS-2 loop system, which is distinguished by a particularly high operating reliability. When an error occurs in the BUS-2 loop, only the defective portion between two isolation modules is disconnected, all other users remain fully functional. For each module, either 2 loops, 1 loop and 2 stub lines or 4 stub lines can be realized. The module is connected via the I-BUS in the housing of the control panel.

The BUS-2 loop module contains electronic fuses.

Technical Data

Operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at U_b=12 V DC	65 mA in stand by mode (without BUS-2 users)
Environmental class according to VdS	II
Operating temperature range	-5 °C to +45 °C
Ambient temperature range	-25 °C to +70 °C
Dimensions PCB (W x H x D)	158 x 112 mm

When a loop module is used, the power supply units 012168 or 012170 must be used.

EIB / KNX Interface

Performance Features

- Use in conjunction with the panel range 561-MB24/48/100
- Transfer from intrusion panel to EIB
  - For each area: internal armed, external armed, disarmed / ready for arming / alarm / fault
  - State of the signaling points (including bus users)
  - System Status
- Transfer from EIB to intrusion panel
  - For each area: internal armed / external armed / disarmed
  - Reset of the security areas
  - Disable / enable reporting areas
- Easy installation into the panel housing

The EIB (European Installation Bus) is a standardized system for the European region for control signals and communication between equipment in industrial and residential buildings.

Have been used various functional networks in a building for the control of lighting and shutter - via cabling in the past, now both, the signals for switching and dimming lights and the signals for lifting and lowering the blinds on one and the same 2-wire bus transfer, is possible.

The EIB-Interface is used for bidirectional conversion of log data from the panel interface to EIB.

Thus, the intrusion system states are transmitted (e.g., inputs, outputs, and system status) to the EIB and used there to control e.g. air conditioning and lighting control scenarios, etc.

Similarly, the control of the intrusion panel by EIB commands is possible.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	typ. 70 mA
Environmental class as per VdS	II
Operating temperature range	0 °C to +50 °C
Dimensions (W x H x D)	121 x 76 x 24 mm

Accessories:

012835	Mechanical kit for MB24 Required only for mounting into 561-MB24/MB12 panel

013350 EIB-Interface 4HB 128MG

Performance Features

- Supports 4 main areas, 128 detector zones

013355 EIB-Interface 32HB 256MG

Performance Features

- Supports 32 main areas, 256 detector zones

Modules for 561-MB24 / MB48 / MB100

013211.10 RS-232/RS-485 interface for 561-MB24/48/100

The RS-232/RS-485 interface is used to connect external systems to the intruder alarm control panels 561-MB24, 561-MB48 and 561-MB100. It allows a bidirectional communication (RS-232 Full-Duplex / RS-485 Half-Duplex) to output alarms and states of an alarm panel to external systems and control of the intruder alarm panel by external systems.

Possible applications are smart links with building management systems, heating, air conditioning, lighting as well as display and control functions via building management systems.

The basis of message transmission and control is the WINMAG plus I/O device format. The data exchange from and to the panel is done in ASCII format.

Performance Features

- Display of panel conditions on external devices (embedded devices or PC applications), e. g. conditions of detector groups or zones, ident data carriers etc.
- Control of panel conditions, e. g. conditions of detector groups, arming/disarming, start of macros etc.
- Recognition of panel conditions on customer specific management systems
- To create customer specific displays, e. g. central monitoring of panels of different locations

Technical Data

Rated operating voltage	12 V DC
Current consumption at rated voltage	
- quiescent	60 mA
- maximum	80 mA
Environmental class as per VdS	II
Operating temperature range	-5° C to +45° C
Storage temperature range	-25° C to +70°C

List of mounting components for 561-MB100 and 561-MB256 plus

		561-MB100 im ZG3.1	561-MB100 im ZG4	561-MB100 19"	561-MB256 plus im ZG4
Item no.	Designation	013201.10 013202.10	013203.10 013204.10	013208.10 013209.10	013222.10 013223.10
010686.01	Power supply unit 12 V DC / 17 Ah	*	*	*	*
010690.01	Power supply unit 12 V DC / 32 Ah	*	*	*	*
010690.02	Power supply unit 12 V DC / 40 Ah	*	*	*	*
012168	Power supply unit 12 V DC / 80 Ah	*	*	*	*
012170	Power supply unit 12 V DC / 130 Ah	–	*	*	*
013950	Powere supply/charger unit 12 V DC / 26 Ah	*	*	*	*
013960	Powere supply/charger unit 12 V DC / 52 Ah	*	*	*	*
013220.13	Adapter for auxiliary power supply	*	*	*	*
011910.02	Connection board 8 detector group inputs	S	S	S/R	–
013100.04	Group extension 16-DGE module type A	*	*	*/R	–
013320.03	Group extension 16-DGE module type B	*	*	*/R	–
013100.05	Zone extension 2-BLC/10-DGE module	*	*	*/R	–
013220.04	Connection module	–	–	–	*
013220.05	I/O basic module	–	–	–	*
013220.06	Keyboard module	–	–	–	*
013220.11	BUS-1 module	*	*	*/R	*
013220.07	BUS-2 module	*	*	*/R	*
013220.07.10	BUS-2 loop module	*	*	*/R	–
013330.10	IGIS-LOOP Controller	*	*	*/R	*
013100.08	Relay extension module	*	*	*/R	*
070478	Group relay card	*	*	*	*
013106	Rear wall mounting plate for 19"	–	–	*	–
013900	Thermo printer, 40-digit	S with 013202.10	S with 013204.10	S with 013209.10	S with 013223.10
013220.14	Connection board for desktop printer	*	*	*/R	*
012690.03	Siren plug-in card	–	–	–	*
057860	Motherboard DS 6600 analog	*	*	*/R	*
057864	Motherboard DS 6700 PSTN/IP	*	*	*/R	*
057865	Motherboard DS 6750 PSTN/IP WINMAG	*	*	*/R	*
057650.20	Motherboard DS 7600 ISDN	*	*	*/R	*
057651.20	Motherboard DS 7700 ISDN / IP	*	*	*/R	*
057871.20	Motherboard DS 9500 ISDN	*	*	*/R	*
050019	16-pin distributor block	*	*	*/R	*
013118	19" dummy plate 6 HE, signal-grey	–	S	*	S
013119	19" dummy plate 3 HE, signal-grey	–	*	*	*
013100.10	Connecting cable set 40 mm / 250 mm	*	*	*	*
013100.11	Connecting cable 400 mm	*	*	*	*
013100.12	Connecting cable 250 mm	*	*	*	*
013100.13	Connecting cable 1000 mm	*	*	*	*
013100.14	Connecting cable 650 mm	*	*	*	*

Legend:
* = possible component
S = integrated standard feature
R = in combination with 013106
– = not available

561-MB256 plus

Performance Features

- up to 2,048 detector groups can be defined, of which up to 1,028 conventional detector groups
- up to 250 main zones can be defined
- up to 2,583 BUS-1 users can be connected
- up to 704 BUS-2 users can be connected, of which a maximum of 50 operating units
- up to 16 graphic operating units can be connected
- suitable for police emergency calls
- depending on design, available with LCD operating unit and printer
- programming via USB or TCP/IP in connection with PC/laptop and software package WINFEM Advanced
- simple firmware update by flash EPROM
- operator guidance by plain text display
- modular extension possible up to a maximum of 32 modules
- automatic maintenance interval display
- IGIS-LOOP and transmission devices can be integrated (also several of them)
- event memory for 4,000 entries
- alarm memory - 20 events per main zone
- technical alarm and fire alarm memory available
- 1,000 IDENT-KEY data carriers manageable
- up to 600 macros can be defined
- operator authorisation with or without code, up to 750 operating codes. Each operating function can be enabled or disabled individually

The intrusion alarm control panel 562-MB256 plus has been designed for use in large-sized and complex solutions, owing to its wide range of extension options.

It meets the latest guidelines of the VdS risk class C and the regulations according to VDE 0833 Parts 1 and 3.

In its basic configuration, the 561-MB256 plus exhibits the following performance features:

- 4 conventional detector group inputs
- 63 BUS-1 users can be connected
- 64 BUS-2 users can be connected
- 8 freely programmable semiconductor outputs and 4 freely programmable relays
- integrated, monitored signalling device connections
- serial and parallel printer interface

With the corresponding extension modules a total of 2,048 detector groups to be realized. A full extension using 32 I/O modules give 1,028 conventional inputs (terminating resistance 12.1 kOhm), which can be used as inputs for detectors and switching devices.

A maximum extension using BUS-1 and BUS-2 modules allows up to 2,583 BUS-1 users and 704 BUS-2 users to be connected.

Of these, several detector group inputs and/or BUS users can be allocated to one detector group. This makes it possible to establish logical relationships of the individual detector groups to the premises-specific circumstances without any problems.

The mechanical assembly of the control panels is done in the standard housing ZG4, where the extension modules are mounted to the rear wall of the housing and connected to one another via flat-band cables. The control panels are available with or without integrated printer. Depending on the size of the system, the power supply (option) is effected via one or more of the 17 Ah to 130 Ah power supply/charger units.

The programming of the control panel is done conveniently via a PC/laptop using the parameterisation software WINFEM Advanced. In connection with a transmission device and WINFEM Advanced, remote programming, remote maintenance and remote control are possible.

Technical Data

Rated connection voltage	230 V AC / 50 Hz
Rated operating voltage U_b	12 V DC
Current consumption at U_b	disarmed, without extension, max. 140 mA
Environmental class	II
Type of protection EN 60529	IP30
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions of housing (W x H x D)	580 x 640 x 300 mm, type ZG 4
19” version	488 x 272 x 110 mm (incl. printer)
Housing colour	grey-white (similar to RAL 9002)
Colour of front plate	signal-grey (similar to RAL 7004)

561-MB256 plus in ZG 4

Accessories

	Housings
050055	19” housing ZG 4
050056	19” housing ZG 5
050057	19” housing ZG 6
013118	19” dummy plate 6 HE, signal-grey
013119	19” dummy plate 3 HE, signal-grey
	Relay extension
013100.08	Relay extension module
070478	Group relay card
	Printer/Printer Accessories
013900	Alphanumeric heat transfer printer, 40-digit
013901	Paper roll (5 per package)
	Power supply/charger units
010686.01	Power supply/charger unit 12 V DC / 17 Ah
010690.01	Power supply/charger unit 12 V DC / 32 Ah
010690.02	Power supply/charger unit 12 V DC / 40 Ah
012168	Power supply/charger unit 12 V DC / 80 Ah
012170	Power supply/charger unit 12 V DC / 130 Ah
050019	Distributor block
	RDT/transmission devices
057860	DS 6600 Analog transmission device
057871.20	DS 9500 ISDN transmission device
057650.20	DS 7600 ISDN transmission device
057651.20	DS 7700 ISDN/IP transmission device
057864	DS 6700 PSTN/IP transmission device
057865	DS 6750 PSTN/IP transmission device
	WINFEM control panel programming
013467.10	USB adapter box (USB 1.1 compatible)
013498	Parameterisation software WINFEM Advanced
013595	WINFEM-User
	Connecting cable
013100.10	Connecting cable set 40 mm / 250 mm
013100.12	Connecting cable 250 mm
013100.11	Connecting cable 400 mm
013100.14	Connecting cable 650 mm
013100.13	Connecting cable 1000 mm

	BUS-1 user
010134	1-detector group module
010135	2-detector group module
010128	2-detector group module; flush-mounted model
010111	Universal connection module; surface-mounted model
010112	Universal connection module; flush-mounted model
010116.17	Active distributor module
010125	BUS-1 operating unit key switch
022310.17	Door module 1
031540	Hold-up pushbutton module
032211.17	IDENTLOC evaluating unit
032420	DETEKT 1000
033370	PIR detector SCM 2000 BUS-1 with area optics
033371	PIR detector SCM 2000 BUS-1 with long range optics
033372	PIR detector SCM 2000 BUS-1 with curtain optics
033401	PIR detector SCM 3000 BUS-1 with area optics
033404	PIR detector SCM 3000 BUS-1 with long range optics
033407	PIR detector SCM 3000 BUS-1 with curtain optics
041150.17	Switching module 24 V DC / 1 A
041151.17	Switching module 250 V AC / 5 A
042235	Indoor blinking light
043050	Indoor siren module
043060.17	Piezo indoor siren
062085	Fire detector base module
	BUS-2 user
013130.17	5-input module
013131.17	5-output module
023312.17	IDENT-KEY IK3 evaluating unit
033442.21	Viewguard DUAL AM BUS-2
033443.21	Viewguard DUAL BUS-2
033332.21	Viewguard PIR BUS-2
033432.21	Viewguard PIR AM BUS-2
010120.17	DUO I/O-Modul BUS-2/BUS-1, fm
010121.17	DUO Relaismodul 230V AC/8A, fm
062090	BUS-2/BUS-1 smoke detector base
	BUS-2, operating units
012540.17	2 x 40-digit LCD operating unit
012541.17	2 x 40-digit LCD operating unit
012544.17	10-detector group operating unit with disabling unit
012542.17	16-detector group disable and display module
012548.17	16-detector group display module
013140	64-detector group display terminal
013002	Keypad TouchCenter Tuxedo, white

013222.10 **IACP 561-MB256 plus in ZG4 housing**

Approval **G106037 (IDT), Class C; VSÖ W 070627/09 E**

Space for 8 options; space for power supply/charger unit; max. accumulator space 2 x 65 Ah.

Housing ZG4; front plate 6 HU; dummy plate 6 HU; computer/connection PCB.

013223.10 **IACP 561-MB256 plus in ZG4, incl. printer**

Approval **G106037 (IDT), Class C; VSÖ W 070627/09 E**

Space for 8 options; space for power supply/charger unit; max. accumulator space 2 x 65 Ah.

Housing ZG4; front plate 6 HU with integrated heat transfer printer; dummy plate 6 HU; computer/connection PCB.

013230 **Retrofit kit IDC 561-MB256 to IACP 561-MB256 plus**

This retrofit kit enables a central control unit 561-MB256 to be retrofitted to a intruder alarm control panel 561-MB256 plus.

Computer/connection PCB, adapter PCB for serial printer, mounting adapter plate, mounting and installation material, programming software WINFEM Advanced.

Modules

A modular extension has the advantage that the security system can be optimally adapted to the building conditions. This also facilitates a later system extension. Different modules of identical dimensions are available. The rear walls of the individual housing types are designed for plug-in of these modules. The arrangement of the modules within the housing can be done individually.

013220.04 **Connection module for MB256 / MB256 plus**

Large-sized module provided with slot for siren plug-in card and radio card.

Fitted with 4 relays 250 V AC / 5 A and 4 relays 24 V DC / 1 A. 10 programmable outputs and one main alarm and one continuous alarm output can be used for relay activation or as semiconductor outputs.

Technical Data

Current consumption (without plug-in cards)	15 mA

013220.05 I/O basic module for MB256 / MB256 plus

Large-sized module provided with 32 inputs for connecting one or more conventional detectors or switching devices, such as block locks or operating units. Also available are 48 programmable outputs, 32 of which can be used for the clearing of detector groups via programming plugs.

Technical Data

Current consumption (without plug-in cards)	50 mA
Current consumption per terminated input	1 mA
Semiconductor outputs	12 V DC / 50 mA

013220.07 BUS-2 module

Module for connecting BUS-2 users. 4 connections decoupled from one another are available for a total of 64 BUS-2 users.

Technical Data

Current consumption	30 mA

013220.11 BUS-1 module

Module for connecting BUS-1 users. 4 independent individually fuse-protected connections are available for BUS-1 users. For each connection, 63 users are possible.

Technical Data

Current consumption	30 mA

013220.13 Adapter for additional power supply

The card is required when several power supply/charger units or more than 5 BUS modules (BUS-1, BUS-2, IGIS) are being used. It guarantees the required 5 V DC supply of the modules on the I-BUS and allows a star-shaped cabeling of the 12 V DC operating voltage to the modules.

Also available are 8 pin pairs for free wiring.

Technical Data

Current consumption	10 mA

012690.03 Siren plug-in card for 2 pressure chamber loudspeakers

Plug-in card for operating a maximum of 2 additional acoustic alarm devices by means of the connection module 013220.04 on an MB256 or MB256 plus.

Phase-out date 31.06.2014.

Extension examples 561-MB256 plus

The examples shown here can only provide a small sample of the possible configurations. Their real intention is to point out the general possibilities from which specific solutions can be derived.

The diagram below shows in schematic form how a system can be expanded using the modules. Depending on the complexity of the system and the resulting current consumption, several power supply/charger units and adapters may be needed for auxiliary power supplies.

Six small modules can be installed instead of the large modules 3, 4 and 5. However, the total number of modules is always 32.

In this example, the basic unit is the IDC 561-M256 in CH 4. It consists of the main board, a connection module (Module 2), a BUS-2 module (Module 1) and a 580 x 640 x 300mm housing. Module positions 3 to 32 can be filled as required.

The modules can be installed in special additional housings or in commercially available 19" racks.
The following tables provide an overview of how many BUS devices can be connected with different numbers of modules.

BUS-1 configuration

In this example, apart from the connection module (Module 2) and the BUS-2 module (Module 1) only BUS-1 modules (Modules 3 to 12) are used.

The number of BUS-1 devices which can be connected depends on how many modules are used and what energy supply/ies are mounted. The max. number of BUS -1 power modules is limited to 10.

Number of BUS-1 modules	1	2	3	4	5	6	7	8	9	10
Max. number of BUS-1 devices	315	567	819	1071	1323	1575	1827	2079	2331	2583
Number of BUS-2 devices*	64									

BUS-2 configuration

In this example, apart from the connection module (Module 2) only BUS-2 modules (Modules 1 and 3 to 11) are used. The number of BUS-2 devices which can be connected depends on how many modules are used and what power supply/ies are employed. The max. number of BUS-2 modules is limited to 10.

Number of BUS-2 modules	1	2	3	4	5	6	7	8	9	10
Max. number of BUS-2 devices*	128	192	256	320	384	448	512	576	640	704

* A maximum of 50 BUS-2 keypads can be used.

Extension examples 561-MB256 plus

Conventional configuration

In this example, apart from the main connection board only basic I/O modules (RIO) (Modules 1 to 32) are used.

The number of conv. devices which can be connected depends on how many modules are used and what power supply/ies are installed.

One or more detectors can be connected per input. Switching elements such as conventional block locks or dead bolt locks with monitoring contacts are also connected at these inputs.

Number of basic I/O modules	1	2	3	4	5	———	30	31	32
Max. number of conventional inputs	36	68	100	132	164	———	964	996	1028
Number of BUS-1 devices	63								
Number of BUS-2 devices*	64								

* A maximum of 50 BUS-2 keypads can be used.

The number and type of detector groups is set during programming. In this case, a detector group can have one or more inputs assigned to it.

Combined configuration

In this example, apart from the connection module (Module 2) and the BUS-2 module (Module 1) various modules are used.
The number of conventional components or BUS-1 or BUS-2 devices which can be connected depends on how many and which modules are used and what power supply/ies are installed.

Example:

Type of module	Connection module	Basic I/O module	BUS-1	BUS-2	Keypad module	Connection pcb
Number of modules	1	3	2	3	1	1
Number of devices or inputs/outputs that can be connected	2 sounders 1 flasher	96	504	192*	4	2 sounders 1 flasher 4 Inputs 63 BUS-1 users 64* BUS-2 unsers
Programmable outputs	8 + 2	144	-	-	-	8
Other	8 relays	-	-	-	-	4 relays

10 modules were used in this example. If several zones are to be operated each with their own external alarm signalling device, then the number of the connection modules can be increased accordingly. There is also the option of programming freely programmable outputs to main or continuous alarm.

013900 Alphanumeric heat transfer printer

40-digit heat transfer printer for plain text printout of operating procedures and messages. The printed texts allow a complete documentation. Through the use of heat-sensitive paper, the printer is always ready-for-use, as no ink ribbon has to be replaced. For the control panel 561-MB100, the printer is connected via the parallel interface, while for the 561-MB256/MB256 plus, it is connected via a serial or parallel interface.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption in no-load operation	60 mA
Current consumption	600 mA average when printing
Environmental class according to VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-20 °C to +70 °C
Weight	ca. 2.1 kg
Dimensions (W x H x D)	190 x 235 x 100 mm
Colour	signal-grey, similar to RAL 7004

19” front plate, 6 HU with integrated printer ; mounting material; connecting cable.

013901 Paper roll for 40-digit heat transfer printer

5 pieces

013100.10 Connecting cable set 25 mm / 250 mm

Not suitable for connecting a serial printer to the 561-MB256 plus.

013100.11 Connecting cable 400 mm

013100.12 Connecting cable 250 mm

013100.13 Connecting cable 1000 mm

013100.14 Connecting cable 650 mm

50-M5

010145.10 **IACP 50-M5**

Compact control panel containing 5 detector groups. Option to program 2 tamper alarm groups and 1 hold-up alarm group. The detector groups 1 and 2 can be disabled individually via the control panel key switch or remote operating units.

It allows alarm signalling types, such as acoustic and optic external alarm, and internal alarm, to be incorporated. Moreover, the control panel is equipped with first alarm indication, tamper individual identification and an option for one-man revision.

Alternatively arming can be done via an external operating unit or a block lock.

Performance Features

- programming via DIP switches and potentiometer
- 5 detector groups
- 1 block lock zone
- fully electronic voltage-stabilised and current-limiting power supply/charger unit
- redundancy standby operation
- accumulator monitoring
- designed for 7.5 Ah
- Fully electronic layout with relay and connection points

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC/ -15% to +10%
Frequency	50 Hz
Power consumption	20 VA
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption disarmed	60 mA
Continuous current drain for ext. load	350 mA
Maximum battery capacity according to VdS	7.5 Ah
Operating temperature range	-5 °C to +45 C
Storage temperature range	-25 °C to +70 °C
Type of protection EN 60529	IP30
Environmental class according to VdS	II
Relay contact rating	30 V DC / 0.8 A
Max. battery space	1 x battery 6.5 Ah
Dimensions (W x H x D)	300 x 186 x 125 mm

Housing ZG1; computer/connection PCB 010145.01; display PCB 010145.02.

Accessories:

042100.17	Optical signalling device, red
048700.17	Acoustical signalling device
048720.17	Compact alarm device in plastic housing
012526	Surface-mounted outdoor security operating unit without logic
154430	Key switch SS 90
028032	Profile semi-cylinder 1)
028033	VdS half cylinder, Winkhaus TI602 2)

1) for installation in intruder alarm control panel 50-M5

2) for installation in surface-mounted outdoor security operating unit, item no. 012526 and key switch SS 90, item no. 154430

100-A5

010146 IACP 100-A5 in ZG1

Approval **G193721 (IDT), Class A**

Compact control panel designed for 5 detector groups. The control panel allows 2 tamper alarm groups to be programmed. In addition, the detector groups 1 and 2 can be disabled individually.

In connection with optionally connected devices, optic and acoustic external alarm, silent alarm via AWAG or dialler and internal alarm are available.

Moreover, the control panel is equipped with first alarm indication, tamper individual identification and an option for one-man revision.

Performance Features

- programming via DIP switches and potentiometer
- 5 detector groups
- 1 block lock zone
- transmission device can be connected
- fully electronic voltage-stabilised and current-limiting power supply/charger unit
- redundancy standby operation
- accumulator monitoring
- designed for 7.5 Ah

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC-15% to +10%
Frequency	50 Hz
Power consumption	20 VA
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption disarmed	60 mA
Continuous current drain for ext. load	350 mA
Maximum battery capacity according to VdS	7.5 Ah
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Contact rating relay 2	250 V AC/ 5 A
Contact rating relay 3	30 V AC / 0.8 A
Max. battery space	1 x battery 7.5 Ah
Dimensions (W x H x D)	300 x 186 x 125 mm

Housing ZG1; computer/connection PCB 010146.01; display PCB 010146.02.

Accessories:

028032	Profile half cylinder
048720.17	VdS compact alarm device

System 561-H

011900 **IACP 561-H8 in ZG2**

Approval **G195505 (IDT), Class B**

Control panel for up to 8 detector groups, depending on the type and number of arming device. Option to program 2 tamper alarm groups and 1 hold-up alarm group. The alarm groups 1 and 2 can be locked individually via the control panel key switch or operating units.

The available alarm signalling types are optic and acoustic external alarm, silent alarm via AWAG or dialler, internal alarm and illumination alarm.

Moreover, the control panel is equipped with first alarm indication, tamper individual identification and an option for one-man revision.

Performance Features

- Programming via DIP switches and potentiometer
- 8 detector groups
- 1 block lock area
- Transmission device can be integrated
- Fully electronic voltage-stabilised and current-limiting power supply/charger unit
- Redundancy standby operation
- Accumulator monitoring
- Designed for 15 Ah

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Frequency	50 Hz
Power consumption	20 VA
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption disarmed	60 mA
Continuous current drain for ext. load	800 mA
Maximum battery capacity according to VdS	2 x 7.5 Ah
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection EN 60529	IP30
Environmental class according to VdS	II
Contact rating relay 2	250 V AC/ 5A
Contact rating relay 3	30 V DC / 0.8 A
Contact rating relay 4	30 V DC / 0.8 A
Max. battery space	2 x battery 7.5 Ah
Dimensions (W x H x D)	350 x 300 x 152 mm

Housing ZG2; computer/connection PCB 011900.01; display PCB 010142.02.

Accessories:

028032	Half profile cylinder
057650.20	DS 7600 ISDN transmission device with AWAG function
057651.20	DS 7700 ISDN/IP transmission device with AWAG function

Power Supplies

- Power supply/charger units
- Accumulators
- Batteries

Board versions

For every application, a matching power supply unit/charger is available. The individual power supply/charger units are distinguished in particular by their permanent accumulator monitoring, voltage stabilisation and current limitation.

The accumulators used with the energy supply must have been tested and approved by the VdS. For the parallel connection of accumulators, only accumulators of the same type and age and from the same production series may be used. Moreover, the regulations according to DIN VDE 0833-1 must be observed.

013950 Power supply/charger unit 12 V DC / 26 Ah

NEW

Approval **VdS-Class C (applied)**
EN 50131-6

Fully electronic, voltage stabilized and current limiting power supply/charger unit for stand by parallel operation with deep discharging protection, batteriy monitoring and battery defect recognition, designed for max. 26 Ah battery capacity. The power supply can be used with the hazard systems:

- MB-Secure IACP series
- MB-IACP series
- ACS-8 A ACS-2 plus access control systems

The power supply / charger unit provides an integrated BUS-2 interface and can also be used as a remote power supply. The BUS-2 interface is also used for wire saving transmission of all status messages to the MB-Secure panel. Additionally there are 3 LEDs for fault identification.

Performance Features

- BUS-2 communication with MB-Secure
- Permanent battery monitoring of 1 battery
- Temperature-guided battery charging voltage
- Voltage stabilized with current limiting
- Deep discharge protection
- Charging connection monitoring
- Battery defect recognition
- EN 50131-6 compliant

Technical Data

Rated operating voltage	110 V / 230 V AC
Operating voltage range	90 V to 265 V AC
Frequency	50 Hz to 60 Hz
Power consumption	typ. 45 W / 92 VA
Maximum constant current	1,5 A
Short-duration continuous current consumption (max. 5 minutes)	2,0 A max. (with charged accum.)
Maximum charging current	1,3 A
Battery capacity according to VdS	26 Ah max.
No. of batteries connectable	1 max.
Possible accumulator combinations	e. g. 1x10 / 1x17 / 1x24 / 1x26 Ah
Current drain according to VdS	for 60 hours at 26 Ah accumulator capacity approx 430 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Dimensions (L x W)	215 x 92,5 mm

Accessories:

010693 NTC temperature sensor

013960 Power supply/charger unit 12 V DC / 52 Ah

NEW

Approval **VdS-Class C (applied)**
EN 50131-6

Fully electronic, voltage stabilized and current limiting power supply/charger unit for stand by parallel operation with deep discharging protection, batteriy monitoring and battery defect recognition, designed for max. 26 Ah battery capacity. The power supply can be used with the hazard systems:

- MB-Secure IACP series
- MB-IACP series
- ACS-8 A ACS-2 plus access control systems

The power supply / charger unit provides an integrated BUS-2 interface and can also be used as a remote power supply. The BUS-2 interface is also used for wire saving transmission of all status messages to the MB-Secure panel. Additionally there are 3 LEDs for fault identification.

Performance Features

- BUS-2 communication with MB-Secure
- Permanent battery monitoring of 2 batteries
- Temperature-guided battery charging voltage
- Voltage stabilized with current limiting
- Deep discharge protection
- Charging connection monitoring
- Battery defect recognition
- EN 50131-6 compliant

Technical Data

Rated operating voltage	110 V / 230 V AC
Operating voltage range	90 V to 265 V AC
Frequency	50 Hz to 60 Hz
Power consumption	typ. 90 W / 190 VA
Maximum constant current	3 A
Short-duration continuous current consumption (max. 5 minutes)	3,5 A max. (with charged accum.)
Maximum charging current	2,6 A
Battery capacity according to VdS	52 Ah max.
No. of batteries connectable	2 max.
Possible accumulator combinations	e. g. 2x10 / 2x17 / 2x24 / 2x26 / 1x38 Ah
Current drain according to VdS	for 60 hours at 52 Ah accumulator capacity approx 860 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Dimensions (L x W)	215 x 92,5 mm

Accessories:

010693 NTC temperature sensor

013970 Power supply/charger unit 18Ah 1,5A

NEW

Approval **VdS-Class A (pending)**
EN 50131-6

Fully electronic, voltage stabilized and current limiting power supply/charger unit for stand by parallel operation with deep discharging protection, batteriy monitoring and battery defect recognition, designed for max. 18 Ah battery capacity. The power supply can be used with the MB-Secure IACP series in combination with the 013730 (ZG20) housing.

Connection is done directly to the power supply connector of the MB-Secure. Additionally there are 2 LEDs for stus and fault identification are available.

The panel is connected with a 4-wire flat ribbon cable with the signals +12 V, 0 V, “S” (Fault) and “N” (Mains).

Available 2. quarter 2014.

Performance Features

- Permanent battery monitoring
- Temperature-guided battery charging voltage
- Voltage stabilized with current limiting
- Deep discharge protection
- Charging connection monitoring
- Battery defect recognition
- EN 50131-6 grade 2 compliant
- Fits to Item no. 013730 ZG30 housing

013975 Power supply/charger unit 8Ah 1,5A

NEW

Fully electronic, voltage stabilized and current limiting power supply/charger unit for stand by parallel operation with deep discharging protection, batteriy monitoring and battery defect recognition, designed for max. 8 Ah battery capacity.

Additionally there are 2 LEDs for stus and fault identification are available.

The power supply provides +12 V and 0 V. The mains and fault status is displayed via LEDs.

Available 2. quarter 2014.

Performance Features

- Permanent battery monitoring
- Temperature-guided battery charging voltage
- Voltage stabilized with current limiting
- Fault indication via LED only
- Deep discharge protection
- Charging connection monitoring
- Battery defect recognition
- EN 50131-6 compliant

057530.10 Power supply/charger unit 230 V AC / 12 V DC / 7.2 Ah

VdS **Approval** **G 190702 (IDT), Class A; VSÖ P 070427/79**

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 7.2 Ah.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	0.13 A
Maximum permanent current	0.5 A
Short-term current drain 5 min.	0.8 A
Battery capacity according to VdS	max. 7.2 Ah, max. 1 battery connectable
Power consumption	22 VA
Environmental class according to VdS	II
Dimensions (L x W)	140 x 60 mm

010686.01 Power supply/charger unit 230 V AC / 12 V DC / 17Ah

VdS **Approval** **G183012 (IDT), Class C**

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 17 Ah.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	0.7 A
Maximum permanent current	1.4 A
Short-term current drain 5 min.	2.4 A
Battery capacity according to VdS	max. 17 Ah, max. 2 batteries connectable
Power consumption	36 VA
Environmental class according to VdS	II
Dimensions (L x W)	215 x 92.5 mm

010690.01 Power supply/charger unit 230 V AC / 12 V DC / 32 Ah

Approval G185054 (IDT), Class C; VSÖ W 070427/78

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 32 Ah.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	1.1 A
Maximum permanent current	2 A
Short-term current drain 5 min.	2.5 A
Battery capacity according to VdS	max. 32 Ah, max. 2 batteries connectable
Power consumption	75 VA
Environmental class according to VdS	II
Dimensions (L x W)	250 x 97.5 mm

Please note the max. continuous current output of 2 A.

010690.02 Power supply/charger unit 230 V AC / 12 V DC / 40 Ah

Approval G197099 (IDT), Class C, VSÖ W 070427/77

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of 40 Ah.

Equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for fault identification.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	1.5 A
Maximum permanent current	1.5 A
Short-term current drain 5 min.	2.2 A
Battery capacity according to VdS	max. 40 Ah, max. 2 batteries connectable
Power consumption	100 VA
Environmental class according to VdS	II
Dimensions (L x W)	250 x 97.5 mm

Please note the max. continuous current output of 1,5 A.

Accessories:

010693 NTC temperature sensor

012168 Power supply/charger unit 230 V AC / 12 V DC / 80 Ah

Approval **G199022 (EMT), Class C; VSÖ W070427/80, W 070427/76**

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 80 Ah. In addition to 12 V DC, the power supply/charger unit also supplies 24 V DC, up to a maximum load of 800 mA.

Equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for fault identification.

Technical Data

Rated mains voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	3.5 A
Max. continuous current 12 V DC output	3.5 A
Max. continuous current 24 V DC output	0.8 A
Short-term current drain 5 min.	5 A
Battery capacity according to VdS	80 Ah, max. 2 batteries connectable
Power consumption	170 VA
Environmental class according to VdS	II
Dimensions PCB (W x H x D)	102 x 252 x 80 mm

Accessories:

010693 NTC temperature sensor

012170 Power supply/charger unit 230 V AC / 12 V DC / 130 Ah

Approval **G100030 (IDT), Class C**

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 130 Ah.

Equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for fault identification.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	5.7 A
Maximum permanent current	5 A
Short-term current drain 5 min.	7 A
Battery capacity according to VdS	max. 130 Ah, max. 2 batteries connectable
Power consumption	170 VA
Environmental class according to VdS	II
Dimensions (W x H x D)	102 x 252 x 80 mm

Accessories:

012171 ZG4 housing for power supply

010693 NTC temperature sensor

012171 ZG4 housing for power supply 012170

Approval **G100030 (IDT), Class C**

Empty housing including lock insert for integrating the power supply/charger unit 012170.

Technical Data

Max. battery space	2 x 65 Ah batteries
Housing	2 mm sheet steel, powder-coated
Weight	approx. 25.8 kg (empty)
Dimensions (W x H x D)	580 x 640 x 300 mm
Colour	grey-white, similar to RAL 9002

Accessories:

010693 NTC temperature sensor with connecting cable 50 cm

028050 VdS lock insert

Housing versions

012135 Power supply/charger unit 230 V AC / 12 V DC / 7.2 Ah

Approval **G190702 (IDT), Class A; VSÖ P 070427/79**

Same as power supply/charger unit 12 V DC / 7.2 Ah (057530.10), but inside housing.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC; +10% -15%; 50 to 60 Hz
Mains frequency	50 to 60 Hz
Maximum charging current	0.13 A
Maximum permanent current	0.5 A
Short-term current drain 5 min.	0.8 A
Battery capacity according to VdS	max. 7.2 Ah, 1 battery connectable
Power consumption	22 VA
Max. battery space	1 x 7.2 Ah
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Housing	Type ZG1, 2 mm sheet steel
Dimensions (W x H x D)	300 x 186 x 125 mm
Sheet steel front door	powder-coated, printed
Colour	grey-white, similar to RAL 9002

Extension possible to include further distributor blocks, transmission device, modem, and the like.

012141 Power supply/charger unit 230 V AC / 12 V DC / 17 Ah

Approval **G183012 (IDT), Class C**

Same as power supply unit/charger 12 V DC / 17 Ah (010686.01), but inside housing.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, +10% -15%
Mains frequency	50 to 60 Hz
Maximum charging current	0.7 A
Maximum permanent current	1.4 A
Short-term current drain 5 min.	2.4 A
Battery capacity according to VdS	max. 17 Ah, max 2 batteries connectable
Power consumption	36 VA
Max. battery space	2 x 7.5 Ah
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Housing	Type ZG2, 2 mm sheet steel
Dimensions (W x H x D)	350 x 300 x 152 mm
Sheet steel front door	powder-coated, printed
Colour	grey-white, similar to RAL 9002

Extension possible to include further distributor blocks, transmission device, modem, and the like.

A 16-pin distributor has been built in by the factory.

Accessories:

028050 VdS lock insert

010691 Power supply/charger unit 230 V AC / 12 V DC / 20 Ah

Approval **G185054 (IDT), Class C**

Same as power supply/charger unit 010690.01 (12 V DC / 32 Ah), but inside housing. Battery space for max. 20 Ah.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC; +10% -15%
Mains frequency	50 to 60 Hz
Maximum charging current	1.1 A
Maximum permanent current	2 A
Short-term current drain 5 min.	2.5 A
Battery capacity according to VdS	20 Ah, max. 2 batteries connectable
Power consumption	75 VA
Max. battery space	2 x 10 Ah or 1 x 16 Ah
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Housing	Type ZG2, 2 mm sheet steel
Dimensions (W x H x D)	350 x 300 x 152 mm
Sheet steel front door	powder-coated, printed
Colour	grey-white, similar to RAL 9002

Extension possible to include further distributor blocks, transmission device, modem, and the like.

Accessories:

028050 VdS lock insert

010692 Power supply/charger unit 230 V AC / 12 V DC / 32 Ah

Approval **G185054 (IDT), Class C**

Same as power supply/charger unit 12 V DC / 32 Ah, 010690.01, but inside housing.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC; +10% -15%
Mains frequency	50 to 60 Hz
Maximum charging current	1.1 A
Maximum permanent current	2 A
Short-term current drain 5 min.	2.5 A
Battery capacity according to VdS	32 Ah, max. 2 batteries connectable
Power consumption	75 VA
Max. battery space	2 x 10 Ah or 1 x 25 Ah or 2 x 16 Ah
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Housing	type ZG3.1, 2 mm sheet steel
Dimensions (W x H x D)	500 x 300 x 210mm
Colour	grey-white, similar to RAL 9002
Sheet steel front door	powder-coated, printed

Extension possible to include further distributor blocks, transmission device, modem, and the like.

Accessories:

028050 VdS lock insert

012169 Power supply/charger unit 230 V AC / 12 V DC / 24 V DC / 80 Ah

Approval **G199022 (IDT), Class C**

Same as power supply/charger unit 12 V DC / 80 Ah, 012168, but inside housing.

Fully electronic 12 V DC power supply/charger unit with 24 DC output. Voltage-stabilised with current limitation and redundancy standby operation with accumulator monitoring and deep-discharging protection. Monitoring of charging circuit and battery defect detection.

The robust steel sheet housing, type ZG3.1, with LED display for “Mains available” and “Fault” has space for 2 x 40 Ah accumulators.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
Max. continuous current 12 V DC output	3.5 A
Max. continuous current 24 V DC output	0.8 A
Short-term current drain 5 min.	5 A
Battery capacity	80 Ah, max. 2 batteries connectable
Power consumption	170 VA
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Dimensions (W x H x D)	500 x 300 x 210 mm
Colour	grey-white, similar to RAL 9002

Accessories:

010693 NTC temperature sensor

Accessories

010693 NTC temperature sensor

For power supply/charger units 012168, 012170 and 010690.02, for optimising the temperature-controlled accumulator charging voltage. Required when accumulators are not mounted in the immediate proximity of the power supply unit/charger.

The NTC temperature sensor is mandatory for VdS systems.

Including connecting cable, 50 cm length.

028050 VdS lock insert

According to VdS for commercial use, for example for retrofitting housings.

The VdS lock insert is delivered with the Schulte 1k101 locking mechanism.
For alarm control panel, no single locking mechanism may be used.

2 keys.

Small power supply units

094051 Power supply unit 230 V AC / 12 V DC / 0.5 A

The power supply unit provides 2 x 12 V DC, 1 x stabilised, 1 x non-stabilised and non-smoothed.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, +10% to -15%
Mains frequency	40 Hz to 60 Hz
Output voltage	12 V DC stabilised
Output voltage #2	12 V DC not stabilised, non-smoothed
Output current	500 mA max.
Type of protection EN 60529	IP40
Environmental class according to VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	151.5 x 45 x 79 mm
Colour	grey-white, similar to RAL 9002

A total current (sum of both outputs) of max. 500 mA can be drained, for example output 1 = 100 mA, output 2 = 400 mA.

Accumulators

The listed lead accumulators are maintenance-free, closed accumulators containing a solid electrolyte. They operate independent of position, are exhaustive discharge protected, cycle-resistant, durable (4 to 5 years) and designed for maximum load. The charging voltage for 12 V accumulators (6 x 2.3 V per cell) is 13.8 V at an ambient temperature of +20° C.

The accumulators meet the VDE 0833 - 1 guidelines for hazard detection systems and are VdS-approved. According to the VdS guidelines, the accumulators should be replaced, if not stated otherwise in the approval certificate, at least every four years.

We provide batteries of different manufacturers, i. e. capacity and dimensions may differ slightly. The capacity we mention is the minimum capacity and the given dimensions are the maximum dimensions.

Please make sure that according to VdS guidelines for parallel connection of several batteries to one psu, the accumulators used must be from the same manufacturer, have the same date of manufacture and the same capacity.

The dimensions are maximum values including the connection terminals.

018001.10 12 V accumulator / capacity 1.2 Ah

Technical Data	
Dimensions (W x H x D)	98 x 59 x 49.5 mm

018002.10 12 V accumulator / capacity 2.0 Ah

Technical Data	
Dimensions (W x H x D)	179 x 67 x 36 mm

018003.10 12 V accumulator / capacity 3.5 Ah

Technical Data	
Dimensions (W x H x D)	134.5 x 64.4 x 66.8 mm

018004.10 12 V accumulator / capacity 6.5 Ah

Technical Data	
Dimensions (W x H x D)	153 x 101 x 67 mm

018005.10 **12 V accumulator / capacity 10 Ah**

Technical Data	
Dimensions (W x H x D)	152 x 101 x 98 mm

018011.10 **12 V accumulator / capacity 12 Ah**

Technical Data	
Dimensions (W x H x D)	153 x 102 x 100 mm

018012 **12V DC accumulator / capacity 16 Ah**

Technical Data	
Dimensions (W x H x D)	181 x 167 x 76 mm

Required as part of VdS certification when used on power supply units 010690.01 and 010692 at full capacity (2 x 16 Ah).

018007.10 **12 V accumulator / capacity 17 Ah**

Technical Data	
Dimensions (W x H x D)	182.5 x 168.5 x 78 mm

018006.10 **12 V accumulator / capacity 24 Ah**

Technical Data	
Dimensions (W x H x D)	167.5 x 127 x 178 mm

018008.10 **12 V accumulator / capacity 38 Ah**

Technical Data	
Dimensions (W x H x D)	210 x 175 x 175 mm

018010.10 **12 V DC accumulator / capacity 65 Ah**

Technical Data	
Dimensions (W x H x D)	272 x 190 x 166 mm

Batteries

018050 3 V lithium battery

Technical Data

Button cell	3 V / 950 mAh / type: CR2477N

018051 9 V alkali-manganese battery

Technical Data

Battery	9 V / 550 mAh

018053 6 V lithium battery for manual hold-up radio transmitter

Technical Data

Lithium battery	6 V / 170 mAh

Accessories

055280 Fixing band for accumulators, dual lock

The flexible press lock is suitable for fastening and fixing accumulators according to European Standard EN Part 2 and VdS guidelines 2540 (impact and vibration).

4 double strips each 15 cm long.

Notizen

Remote data transmission

- Analog dialling devices
- IP data transmission
- Analog dialling devices
- ISDN dialling devices
- Redundant radio channel
- Alarm receiver

List of communication devices

Transmission device				
	DS 4200	DS 6600	DS 6700	DS 6750
Item no.	**057605**	**057860**	**057864**	**057865**
VdS approval		**G107806**	**G111803**	**G111803**
Telecom network	PSTN	PSTN	PSTN	PSTN
Stand alone mode supported	x		x	x
Ethernet connection			x	x
Communication with Smartphone App			x	x
Speech capability (predefined messages in German)			x	x
Individually speech texts	35 sek.		1 (16sec)+4 (4sec each)	1 (16sec)+4 (4sec each)
Inputs	1	– / – / 100[3]	8 / 88 / 108[3]	8 / 88 / 108[3]
Phone numbers / Dialling sequences	1	20 / 8	20 / 8	20 / 8
Connection to control centre (TELIM protocol)		x	x	x
Connection to control centre (VdS 2465 protocol)		x	x	x
Connection to control centre (Contact ID)		x		x
SMS function / e*cityruf (e-message)		x	x	x
E-Mail via			Ethernet	Ethernet / ISDN / GPRS[2]
TCP/IP connection via			Ethernet	Ethernet / ISDN / GPRS[2]
Encription algorithm (TCP/IP)			AES	AES / Chiasmus
X.31 connection				
Simultaneus connections over TCP/IP			4 Alarm receiver 2 WINFEM	4 Alarm receiver 2 WINFEM 4 WINMAG 2 Video systems
Dedicated line connection over D channel				
Demand-controlled connections over D channel				
Redundant connection with			RFW-3000 or RFW-4000 GSM / GPRS	RFW-3000 or RFW-4000 GSM / GPRS
GPRS connection to security service			RFW-3000 / RFW-4000	RFW-3000 / RFW-4000
Connection to panel	Conventional (hardwired)	EMZ-RS 232 BUS-2[4] I-BUS[4]	Conventional (hardwired) EMZ-RS 232 BUS-2[4] I-BUS[4]	Conventional (hardwired) EMZ-RS 232 BUS-2[4] I-BUS[4]
Expanded BUS-2 interfacing for control panels without serial connection for alarm signaling via IP				x
Compatibility to		DS 6500 / DGA 2400	DGA 2400	DGA 2400
Number of remote outputs		0 / 0 / 40[3]	2 / 82 / 42[3]	2 / 82 / 42[3]
Integration module for panels		x	x	x
Modem function		x	x	x
Remote parametrization / remote access		yes/yes	yes/yes	yes/yes
Remote parametrization call setup via SMS trigger			x	x
ISDN-S0-BUS for downstream ISDN devices				
Programming via PC / Notebook		x / USB	x / USB	x / USB
Flash firmware update via USB				
Event log / number of events	1	1000	1000	1000
Routine call functions / Number of dialling sequences	x / 1	4 / 8	x / 4	x / 4

Legend: 1 = only with Point-to-Multipoint configuration 2 = Only with GSM module RFW-3000/RFW-4000 GSM 3 = on Board / max. Expansion / Integration
4 = only compatibility mode x = yes

List of communication devices

Transmission device				
	DS 9500	DS 9600	DS 7600	DS 7700
Item no.	**057871.20**	**057872.20**	**057650.20**	**057651.20**
VdS approval	**G107803**	**G107802**	**G106801**	**G106802**
Telecom network	ISDN	ISDN	ISDN	ISDN
Stand alone mode supported			x	x
Ethernet connection				x
Communication with Smartphone App				x
Speech capability (predefined messages in German)	x	x	x	x
Individually speech texts	4+1 (3sec each)	4+1 (3sec each)	4+1 (3sec each)	4+1 (3sec each)
Inputs	– / – / 100[3]	– / – / 100[3]	8 / 88 / 108[3]	8 / 88 / 108[3]
Phone numbers / Dialling sequences	20 / 8	20 / 8	20 / 8	20 / 8
Connection to control centre (TELIM protocol)	x	x	x	x
Connection to control centre (VdS 2465 protocol)	x	x	x	x
Connection to control centre (Contact ID)				
SMS function / e*cityruf (e-message)	x	x	x	x
E-Mail via			ISDN	Ethernet / ISDN / GPRS[2]
TCP/IP connection via				Ethernet / ISDN / GPRS[2]
Encription algorithm (TCP/IP)				AES / Chiasmus
X.31 connection			x	x
Simultaneus connections over TCP/IP				4 Alarm receiver 2 WINFEM 4 WINMAG 2 Video systems
Dedicated line connection over D channel			4	4
Demand-controlled connections over D channel			x	x
Redundant connection with			RFW-3000 / RFW 4000 GSM	RFW-3000 / RFW 4000 GSM
GPRS connection to security service				RFW-3000 / RFW-4000
Connection to panel	EMZ-RS 232 BUS-2[4] I-BUS[4]	(only 561-MB24) EMZ-RS 232 BUS-2[4]	Conventional (hardwired) EMZ-RS 232 BUS-2[4] I-BUS[4]	Conventional (hardwired) EMZ-RS 232 BUS-2[4] I-BUS[4]
Expanded BUS-2 interfacing for control panels without serial connection for alarm signaling via IP				
Compatibility to	DS 8500-ISDN	DS 8600-ISDN	DS 7500-ISDN	DS 7500-ISDN
Number of remote outputs	0 / 0 / 40[3]	0 / 0 / 40[3]	2 / 82 / 42[3]	2 / 82 / 42[3]
Integration module for panels	x	x	x	x
Modem function	x	x	x	x
Remote parametrization / remote access	yes[1] / yes[1]	yes[1] / yes[1]	yes/yes	yes/yes
Remote parametrization call setup via SMS trigger				x
ISDN-S0-BUS for downstream ISDN devices			yes	yes
Programming via PC / Notebook	x / USB	x / USB	x / USB	x / USB
Flash firmware update via USB	x	x	x	x
Event log / number of events	1000	1000	1000	1000
Routine call functions / Number of dialling sequences	x / 4	x / 4	x / 4	x / 4

Legend: 1 = only with Point-to-Multipoint configuration 2 = Only with GSM module RFW-3000/RFW-4000 GSM 3 = on Board / max. Expansion / Integration
4 = only compatibility mode x = yes

Analog dialling devices with digital transmission

057860 **DS 6600 Analog transmission device with Contact ID and TELIM**

Performance Features

- Alarm transmission by VdS 2465 (V.22 at 1,200 bits/s) protocol in analog telecommunication network
- Telim protocol
- Contact ID
- SMS transmission via TAP and UCP protocol
- Landline transmission of SMS (1TR140 protocol)
- Landline transmission of SMS to an e-mail recipient
- Landline transmission of SMS to a fax recipient
- Transmission of standard texts in german or englisch
- e* Cityruf (tone only)
- Modem function for remote access to the connected hazard detection control panels (14,400 baud)

Programmable performance features:

- 20 telephone numbers for demand-controlled connections
- Several individually configurable dialling sequences
- Non-volatile event memory for at least 1,000 max. 2,000 events.
- Remote control options in connection with compatible alarm receivers
- 100 outputs of the intrusion detection control panel can be transmitted alarm criterion
- 100 freely programmable functional group outputs can be transmitted as alarm criterion via Contact-ID Event Code
- Permanent monitoring of the availability of the telephone connection with sabotage security enabled and anti-block function enabled
- Extensive remote service and remote diagnosis options

VdS **Approval** **G107806 (IDT), transmission device**

The ISDN transmission device DS 6600 is used for digital transmission of technical faults and emergency calls over the public analog telecommunication network to a rescue service (digital alarm receiver of a security service). Moreover, in compatible hazard detection control panels, the modem function allows remote service and remote diagnosis.

Information transmission takes place to compatible alarm receivers (e.g. DEZ 9000), which are capable of interpreting the following protocols:

- VdS 2465 in analog telephone network
- Telim protocol
- Contact ID

In addition, the wide range of options of sending SMS provided by the transmission device DS 6600 may be mentioned in particular. Thus, it is not only possible to send SMS to mobile phones and landline phones, but SMS can also be sent over the landline network to e-mail and fax recipients.

For the use of the DS 6600 as integration module in compatible hazard detection systems, the IACP RS-232 interface with an extended range of functions is available. Thus, the USB interface of the transmission device can be used in this connection for programming the control panel.

The transmission device DS 6600 has an I-BUS interface and a BUS-2 interface. This enables its integration, via a compatibility mode (with a reduced range of functions), into control panel systems that do not provide an IACP RS-232 interface.

The application-specific data are conveniently programmed via WINFEM Advanced.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Current consumption stand-by	80 mA
Current consumption active	110 mA
Environmental class according to VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Dial process	IWV, MFV
Connection	to telephone jack, TAE-6 socket
Dimensions (L x W)	158 x 112 mm

Integration module for the intrusion detection control panels MB12, 561-MB24, 561-MB48, 561-MB100.

Telecom connecting cable.
Serial connecting cable for intruder alarm control panel.

Accessories:

MB12/MB24

012835 Mechanical kit

PSTN auto diallers for the security technique

Performance Features

System features

- Connection to panel via serial interface, BUS-2 and I-BUS
- Integration module or “stand-alone” device.
- Automatic daylight saving time switching
- Clock module with 48 hour power reserve
- Selektive remote service authorization
- Battery and low voltage monitoring
- Flexible activation of signalling relay
- FDC connection with DIN14675 interface (extension pcb 057655)
- 8 individually parametrizable inputs on the motherboard
- 2 semiconductor outputs on the motherboard for remote control
- Up to 16 input / output modules on BUS-2:
  - Hence extendable to max. 80 inputs / outputs
- With serial IACP connection:
  - 100 panel alarm criteria
  - 40 control criteria to the panel
- Detaillied plain text transmission of message criterion to the alarm receiving center
- 4 individually parametrizable routine calls
- 20 event controlled call numbers
- 10 E-Mail addresses
- 10 call numbers per dialling sequence
- 8 dialling sequences
- AWAG functionality:
  - Record and play via headset
  - Saving of speech in the PC
  - Two combinable AWAG operation modes
  - Standard vocabulary
  - Location text (16 sec.) and 4 free announcement texts (4 sec each)
- Non-volatile parameter memory and event memory with min. 1000 events
- Integrated protocol analysor of system conditions for service purposes
- remote maintenance via analogue telephone line (V.32bis) and Ethernet
- EN 54-21 approval
- VdS approval

Features on analogue telephone line

- Permanent monitoring of availability of the telephone connection
- Line monitoring with blockade release
- Tone, pulse and blind dialling
- Connectable to exchange and extension lines
- Parametrizable waiting time for calls
- Telim and VdS 2465 (V.22) transmission protocol
- AWAG speech alarming

Features Ethernet connection

- Line monitoring of Ethernet interface
- DHCP or manual input of IP parameter
- Remote maintenance via WINFEM
- Fix IP connections to alarm receiving centers (max. 4 at the same time)
- AES encryption of IP connections

The transmission devices DS 6700 / DS 6750 are used to transmit messages from hazard detection systems using public and private communication networks as well as an interface to remote systems, such as management systems linked via public or private networks.

Moreover, when used in compatible hazard detection panels, the devices allow remote service and remote diagnosis.

The transmission device can be integrated in a panel housing in addition two housings for use as stand-alone device are available.

In the event of discontinuation or migration of classic transmission paths (e.g. ISDN), there are often not enough or no future solutions for a secure alarm transmission to alarm receiving centres available. The expanded BUS-2 connection feature of the DS 6750 presents the solution for central control units to send alarms via IP networks. Via BUS-2 adapted control panels using the DS 6750, demand-actuated or dedicated line IP connections to alarm receiving centers can be established in accordance with VdS guidelines.

Several dedicated line connections and demand-actuated connections can be established and maintained simultaneously to different alarm receiving centers. In addition, demand-actuated connections can be established for transmission of messages, without the need to interrupt already existing connections. Both the PSTN (public switched telephone network) and Ethernet are used as transmission networks. Use within private branch exchange systems is also possible. In combination with the RFW-3000 / RFW-4000, the transmission devices can connect to the internet via the GSM service GPRS (General Packet Radio Service) and establish online and demand-controlled IP connections to an alarm receiving center. These transmission paths also allow e-mails to be sent.

Both transmission devices are equipped with an integrated dialing device with voice transmission, because the operator requested frequent plain text information about the status of the property

The voice transmission is possible without the need for additional hardware and without additional investment. The set up of voice recording can be made by using the nine integrated standard texts or using a headset, this enables the recording of individual voice messages by the installer. Back up and recording of voice messages can be made via WINFEM Advanced.

The optional ATS adapter for fire panels provides an interface for fire alarm systems according to DIN 14675, appendix B and VdS 2463. Permits the transmission of fire and fault notifications from fire alarm panels.

Up to 2 video panels can be connected via TCP/IP (Ethernet) to the transmission device DS 6750. Communication takes place by means of the VdS-compliant protocol VdS 2465-S2 via TCP/IP connection. The configuration of the video panel and the DS 6750 is effected conform to VdS 2471 and 2465-S2.

By connecting the intrusion detection and the video panel, a functional and cross-system combination of the two systems is achieved, e.g.cross-system interactions, control of the video panel through operating states of the intrusion detection panel, display of names in the video picture when access and switching operations take place

Apart from the alarm transmission, integration into a hazard detection system allows extensive remote service functions of the two systems. Not only live monitoring of operating and switching processes are possible also future cross-border services like alarm pretest for informative assessment of the situation or automated guard patrols are feasible.

- Recognition of DoS-attacks
- VdS 2465-S2 transmission protocol
- IQ SystemControl
- E-Mail
- Communication with Smartphone App possible

Features GSM / GPRS connection

- RFW-3000 or RFW-4000 adaptable
- Optional offset antenna for RFW-3000 or RFW-4000
- VdS 2465 transmission protocol
- AWAG speech alarming via GSM with RFW-4000
- Telim transmission protocol via GSM with RFW-4000
- SMS notification via GSM
- Fix connections via GPRS
- Demand controlled connections via GPRS
- AES encryption of IP connections
- Remote maintenance via IP callback - Callback-trigger with password protected SMS
- Remote maintenance via GPRS

057864 DS 6700 PSTN/IP auto dialler

Approval **Class C (IDT) G111803**

Transmission of information via the analogue telephone network (PSTN) and Ethernet (TCP/IP).
Interface for connection to GSM-networks (in connection with RFW-4000 / RFW-3000).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption in no-load operation	135 mA / 150 mA (without Ethernet / with Ethernet)
Current consumption active	typ. 155 mA / typ. 170 mA (PSTN / PSTN+Ethernet)
Environmental class as per VdS	II
Ambient temperature	-10 °C to +50 °C
Storage temperature	-25 °C to +70 °C
Dimensions PCB (L x W)	158 x 112 mm

Telecom connecting cable.
Serial connecting cable for intrusion detection control panel.

Accessories:

057655	FDS connection board for transmission device
057631	Sheet steel housing ZG0
057632	Sheet steel housing ZG1 with room for power supply unit and accumulator
057530.10	Power supply/charger unit 12 V DC / 7.2 Ah integratable in art. no. 057632
018004.10	12 V DC / 6.5 Ah accumulator
057590	RFW-4000 GSM/GPRS plug in module
057575	RFW-3000 GSM/GPRS transmission system
057550	ADO-8 / TAE6 / IAE covering case
057551	Covering case for NTBA and terminal box

For MB12 / MB24

012835	Mechanical kit

057865 DS 6750 PSTN/IP-auto dialler

VdS **Approval** **Class C (IDT) G111803**

Transmission of information via the analogue telephone network (PSTN) and / or IP network. Suitable for connection to main exchange line or extension line of the public telephone network. With AWAG-functionality, direct possibility of WINMAG connection, contact-ID transmission and Ethernet interface for connection to IP-networks. Interface for connection to GSM-networks (in conjunction with RFW-4000).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption in no-load operation	135 mA / 150 mA without Ethernet / with Ethernet)
Current consumption active	typ. 155 mA / typ. 170 mA (PSTN / PSTN+Ethernet)
Environmental class as per VdS	II
Ambient temperature	-10 °C to +50 °C
Storage temperature	-25 °C to +70 °C
Dimensions PCB (L x W)	158 x 112 mm

Telecom connecting cable.
Serial connecting cable for intrusion detection control panel.

Performance Features

System features

- Extended BUS-2 connection for panels without serial connection for alarm reporting via IP
- With serial IACP connection:
  - 100 function group outputs as alarm criterion (Contact-ID)

Features on analogue telephone line

- Remote control and remote request via DTMF
- Contact ID transmission protocol
- SMS notification
- E-Mail via PPP (max. 10 E-Mail addresses)
- VdS 2465 IP-connections via PPP
- NTP via PPP (synchronisation with time server)
- WINMAG
- WINMAG "stand-alone" connection
- IQ MulitAccess

Features Ethernet connection

- CHIASMUS-encryption of IP-connections
- NTP (synchronisation with time server)
- WINMAG via IP (max. 4 at the same time)
- WINMAG via IP (max. 4 at the same time) "stand-alone" connection
- IQ MultiAccess
- Video center connection via IP (max. 2 at the same time)

Features GSM / GPRS connection

- Contact ID transmission protocol with RFW-4000
- E-Mail via GPRS
- CHIASMUS encryption of IP connections
- NTP via GPRS (synchronisation with time server)

Accessories:

057655	FDS connection board for transmission device
057631	Sheet steel housing ZG0
057632	Sheet steel housing ZG1 with room for power supply unit and accumulator
057530.10	Power supply/charger unit 12 V DC / 7.2 Ah integratable in art. no. 057632
018004.10	12 V DC / 6.5 Ah accumulator
057590	RFW-4000 GSM/GPRS plug in module
057575	RFW-3000 GSM/GPRS transmission system
057550	ADO-8 / TAE6 / IAE covering case
057551	Covering case for NTBA and terminal box

For MB12 / MB24

012835	Mechanical kit

057605 AWAG 4200 dialler with annunciator

Performance Features

- 1 input
- Freely programmable
- Electronic voice memory
- Multi-frequency dialling method
- May be operated within private branch exchange systems (no fault switching operation), call exchange possible via code or flash
- Up to 4 telephone numbers programmable
- Max. announcement time: 35 seconds
- Built-in loudspeaker and microphone
- Alarm contact closed or open, programmable as release condition for dialling sequence
- Start of the dialling sequence possible by alarm contact or manually by key press
- Alarm delay and alarm blocking time programmable
- Emergency power supply (power supply unit including accumulator) can be integrated in the housing as an option

Automatic telephone dialler with annunciator including user-guidance input of telephone numbers and the announcement text.

The AWAG 4200 transmission device has been designed for use as automatic dialler with annunciator for signalling and notifying purposes. An individually recorded voice message is transmitted selectively to up to four memorised user numbers when an event occurs (e.g. releasing a relay contact, by key press).

In connection with an intrusion or fire detection system, AWAG 4200 has turned out to be the solution in different situations, such as, for example, as an alarm, fire, gas, cooling/freezing cabinet failure or power failure detector. This announcement can either be transmitted over a distance (via the public telephone network) or locally (within a private branch exchange system).

Technical Data

Rated voltage	12 V DC
Operating voltage	10 V DC to 14 V DC
Quiescent current	39 mA
Alarm current	max. 200 mA
Operating temperature range	-10 °C to +35 °C
Storage temperature range	-25 °C to +70 °C
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Activation	NO switch without NC switch, potential-free
Transmission procedure	voice transmission
Dialling method	DTMF
Connection	TAE-6
Dimensions PCB (W x H x D)	130 x 160 x 40 mm
Dimensions housing (W x H x D)	250 x 210 x 100 mm

Room for power supply/charger unit 057530.10 and accumulator 018002.10.

Accessories:

057530.10	Power supply/charger unit 12 V DC / 7.2 Ah
018002.10	12 V DC / 2.0 Ah accumulator
057550	ADO8/TAE/IAE covering case

ISDN transmission device for security technology

057871.20 **DS 9500 ISDN transmission device with AWAG function**

Performance Features

- ISDN B channel VdS 2465
- ISDN B channel TELIM
- ISDN B channel Plain text transmission (dialler function)
- SMS via ISDN
- e* Cityruf (alphanumeric or tone only)
- Voice transmission via standard texts and DTMF detection without additional extensions
- Up to 4 individual texts of 3 sec each can be voice recorded by ISDN telephone
- VdS approval

Additional performance features of ISDN multipoint configuration:

- Remote control options in connection with voice and telephone keypad (DTMF detection)
- Modem function for remote access to the connected hazard detection control panel
- Extensive remote service and remote diagnosis options
- It can be used for connecting IQ MultiAccess and IQ SystemControl.

VdS **Approval** **G101803 (IDT), transmission device**

The DS 9500 is operated in the ISDN network. It is used for digital transmission of technical faults, hazard messages and emergency calls and for remote parameterisation, remote maintenance and remote diagnosis of the connected hazard detection system. The performance features for the remote control functions and the remote parameterisation require an ISDN multipoint interface. A point-to-point connection having the desired remote maintenance functionality requires, for example, the use of the transmission devices DS 7600 or DS 7700.

The connection is made to ISDN-capable alarm receivers, for example DEZ 9000.

The connection to TELIM-compatible alarm receivers can also be effected by means of DS 9500.

It is equipped with an integrated dialler and paging device and allows remote control functions and remote inquiries to be executed from any phone or mobile phone. It uses intuitive, language-controlled user guidance as known from operating a mailbox.

The AWAG function, that is, the transmission of voice messages via ISDN to any telephone connection, has been completely integrated into the DS 9500 as a standard function. Language memories containing previously prepared standard texts for 9 transmission channels are available. When the dialler is connected to an MB control panel via a serial interface, its 100 output criteria can be assigned to the 9 transmission channels as desired. Additional texts each about 3 sec. long can be freely supplemented in 4 of these 9 transmission channels. The supplementary text is dictated via a phone.

For the use of the DS 9500 as integration module in compatible hazard detection systems, the IDCP RS-232 interface with an extended range of functions is available. This makes it possible to operate several connections in parallel via ISDN. The USB interface of the transmission device can be used in this connection for programming the control panel.

The transmission device DS 9500 has an I-BUS interface and a BUS-2 interface. This enables its integration into older control panel systems of the HB48 or 561-MB100 (without the index .10 in the art. no.) series without IACP RS-232 interface via a compatibility mode (with a reduced range of functions).

The application-specific data are conveniently programmed via WINFEM Advanced.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption	100 mA
Environmental class as per VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (L x W)	158 x 112 mm

Integration module for intrusion detection control panels
561-MB8, MB12, 561-MB16, 561-MB100, 561-MB256 plus, 561-HB48 and 561-MB48.

ISDN connecting cable.
Serial connecting cable for intrusion detection control panel.

Digital ISDN transmission device with AWAG function DS 7600

057650.20 **DS 7600 ISDN transmission device, incl. voice transmission**

Performance Features

- Can be used on an ISDN multi-device connection and ISDN system connection (PTP, PTMP)
- Can be used as integration module or stand-alone device
- Interface for connection to compatible panels: I-BUS, BUS-2
- Active, galvanically and functionally decoupled ISDN S0 BUS for downstream ISDN devices
- Serial interface S1 according to VdS 2463 and VdS 2465
- Parallel interface S1 of 8 inputs according to VdS 2463 (freely programmable inputs)
- 2 potential-free outputs for positive drive, signalling
- 80 additional monitored and freely programmable inputs or outputs can be set up
- Non-volatile parameter and event memories (at least 1,000 entries)
- Failure-proof real-time clock, can be synchronised with compatible hazard detection system or ISDN
- Freely configurable dialling sequences for different event types
- TELIM Transmission via the ISDN B channel (VdS 2465, TELIM)
- Transmission via the ISDN D channel (X.31), 4 online or demand-controlled connections
- Sending of SMS, paging, voice messages and remote control function via ISDN B channel
- Integrated AWAG function, modifiable standard texts for voice messages available
- GSM data connections (V.110) with RFW-3000/RFW-4000 (optional extension)
- Sending of SMS and e-mail transmission via GSM with RFW-3000/RFW-4000 (optional extension)
- Sending e-mails via ISDN internet dial-up connection by means of the PPP protocol.
- Simultaneous use of all transmission types and transmission channels possible
- 20 telephone numbers, 4 dial-up access numbers for X.31 and 10 e-mail addresses programmable
- Permanent monitoring of the transmission paths and system states including recording

VdS **Approval** **G 106801 (IDT); VSÖ W 070427/39 E**

Information transmission via ISDN, suitable for connection to ISDN basic rate interfaces (multipoint or point-to-point connections).

Interface for connection to GSM networks (in connection with RFW- 3000 and RFW-4000). Includes ISDN connecting cable.

The DS 7600 is a transmission device that, owing to its comprehensive functionality on the ISDN connection and its optional redundancy via GSM leaves nothing to be desired for these transmission paths. Its range of functions is not limited to the transmission of hazard messages, but also offers remote parameterisation, remote control and remote maintenance.

Connections take place primarily to ISDN-capable or TELIM-compatible alarm receivers, such as the DEZ 9000. When GSM is used as the redundant transmission path, messages can be received from the alarm receiver via ISDN or a separate GSM module. Language or SMS is transmitted via ISDN (for SMS, optionally by GSM) to any telephone connections (SMS to selected networks). A transmission to e-mail recipients is also possible via the ISDN PPP protocol.

The transmission device can be installed in the control panel housing as integration module, for which two housing models for stand-alone operation or remote assembly are additionally available.

The DS 7600 has 8 detector group inputs whose activation and response characteristics can be adapted individually. Furthermore, two remote switching outputs are available.

The transmission of the alarm and control information via the ISDN takes place in accordance with the relevant VdS specifications, thus ensuring compatibility with the corresponding receiver units. The transmission of very detailed information made possible by the DS7600 allows a quick and selective reaction of reduced risk potential for the intervention personnel.

The AWAG function, that is, the transmission of voice messages via ISDN to any telephone connection, has been completely integrated into the DS 7600 as a standard function. Language memories containing previously prepared standard texts for 9 transmission channels are available. When the dialler is connected to an MB control panel via a serial interface, the latter's 100 output criteria and the 8 conventional inputs of the DS 7600 can be assigned to the 9 transmission channels as desired. Additional texts each about 3 sec. long can be freely supplemented in 4 of these 9 transmission channels. The supplementary text is dictated via a phone.

The integrated DTMF detection allows remote control functions and remote inquiries to be carried out from any telephone connection that runs with the DTMF dialling method. An integrated language-supported user guidance allows an easy intuitive operation of remote control and remote inquiry.

When used as a stand-alone device, the integrated BUS-2 interface allows a connection of BUS-2 5-input or 5-output modules. Moreover, 80 additional inputs or outputs can be set up, allowing very extensive monitoring and control tasks to be covered.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption stand-by	100 mA
Current consumption active	150 mA
Environmental class as per VdS	II
Ambient temperature	-10 °C to +50 °C
Storage temperature	-25 °C to +70 °C
Activation	Quiescent current group, operating current group, differential detector group
Dimensions PCB (L x W)	158 x 112 mm

For GSM and GPRS conection RFW-3000/RFW-4000 applicable.

- Integrated protocol analyser for service purposes
- Intelligent anti-block function for ISDN with protection of emergency call connection
- Telephone number check and password prompt for remote access
- Remote control functions via voice or DTMF
- Language-supported user guidance for remote access and remote control over the telephone
- Parameterisation via WINFEM Advanced (USB or remote access) or via central unit operating unit
- Remote connection of the connected hazard detection control panel to WINMAG plus
- Direct connection of a GPS antenna and transmission of the site coordinated possible
- Transmission of IDENT-KEY personal data for documentation and reproducibility of operating procedures
- Transmission of detailed information of compatible hazard detection systems including texts for zones, groups and detectors

Functional diagram

Accessories:

057655	FDS connection board for transmission device
057631	Sheet steel housing ZG0
057632	Sheet steel housing ZG1 with room for power supply unit and accumulator
057530.10	Power supply/charger unit 12 V DC / 7.2 Ah integratable in art. no. 057632
018004.10	12 V DC / 6.5 Ah accumulator
057575	RFW-3000 GSM/GPRS transmission system
057590	RFW-4000 GSM/GPRS add-on module
057550	ADO-8 / TAE6 / IAE covering case
057551	Covering case for NTBA and terminal box

For MB12 / MB24

012835	Mechanical kit

Digital ISDN/IP transmission device with AWAG function DS 7700

057651.20 **DS 7700 ISDN/IP transmission device**

Performance Features

- Full functionality on an ISDN multipoint connection and ISDN point-to-point connection (PTP, PTMP)
- Alarm transmission, remote control and remote parameterisation via IP networks
- Can be used as integration module or stand-alone device
- Interface for connection to compatible panels: I-BUS, BUS-2
- Active, galvanically and functionally decoupled ISDN S0 BUS for downstream ISDN devices
- Ethernet interface for connection to IP networks
- Serial interface S1 according to VdS 2463 and VdS 2465
- Parallel interface S1 of 8 inputs according to VdS 2463 (freely programmable inputs)
- 2 potential-free outputs for positive drive, signalling
- 80 additional monitored and freely programmable inputs or outputs can be set up
- Non-volatile parameter and event memories (at least 1,000 entries)
- Failure-proof real-time clock
- Freely configurable dialling sequences for different event types
- Transmission via the ISDN B channel (VdS 2465, TELIM)
- Transmission via the ISDN D channel (X.31), 4 online or demand-controlled connections
- Demand-controlled and 2 online, encrypted or non-encrypted IP connections to alarm receivers
- TCP/IP connection using the AES or Chiasmus encryption methods
- Sending of SMS, paging, voice messages and remote control function via ISDN B channel
- Integrated AWAG function, modifiable standard texts for voice messages available
- GSM data connections (V.110) with RFW 3000/RFW-4000 (optional extension)
- GPRS IP connections and sending e-mails via GPRS (for use with RFW-3000/RFW-4000)
- Sending of SMS and e-mail transmission via GSM with RFW-3000/RFW-4000 (optional extension)

VdS **Approval** **G 106802 (IDT); VSÖ W 070427/38 E**

Information transmission via ISDN and/or IP network, suitable for connection to ISDN basic rate interfaces (multipoint or point-to-point connections).

Ethernet interface for connection to IP networks, interface for connection to GSM/GPRS networks (in connection with RFW-3000 and RFW-4000). Includes ISDN connecting cable.

The DS 7700 is a transmission system for use in public or private IP networks having an additional function as ISDN transmission device. Its range of functions is not limited to the transmission of hazard messages, but also offers remote parameterisation, remote control and remote maintenance.

A further redundancy via GSM/GPRS can be obtained with optional accessories (RFW-3000).

Connections take place via IP-networks, if desired, additionally via ISDN to VdS- and/or TELIM-compatible units, such as the DEZ 9000. When GSM is used as the redundant transmission path, messages can be received from the alarm receiver via ISDN or a separate GSM module. Voice or SMS transmission is effected via ISDN (for SMS, optionally by GSM) to any telephone connection.

An e-mail can be sent via Ethernet or ISDN internet dial-up connection by means of the ISDN PPP protocol.

In connection with the RFW 3000, the DS 7700 can connect to the internet via the GSM service GRPS (General Packet Radio) and establish online and demand-controlled IP connections to an alarm receiver. This configuration also allows an e-mail to be sent.

The transmission device can be installed in the control panel housing as integration module, for which two housing models for stand-alone operation or remote assembly are additionally available.

The DS 7700 has 8 detector group inputs whose activation and response characteristics can be adapted individually. Even when used as integration module, the 8 independent detector group inputs are additionally available for further transmission criteria. Furthermore, two remote switching outputs are available.

The transmission of the alarm and control information via IP and ISDN takes place in accordance with the relevant VdS specifications, thus ensuring compatibility with the corresponding receiver units. The transmission of very detailed information made possible by the DS 7700 allows a quick and selective reaction of reduced risk potential for the intervention personnel.

The AWAG function, that is, the transmission of voice messages via ISDN to any telephone connection, has been completely integrated into the DS 7700 as a standard function. Language memories containing previously prepared standard texts for 9 transmission channels are available. When the dialler is connected to an MB control panel via a serial interface, the latter's 100 output criteria and the 8 conventional inputs of the DS 7700 can be assigned to the 9 transmission channels as desired. Additional texts each about 3 sec. long can be freely supplemented in 4 of these 9 transmission channels. The supplementary text is dictated via a phone.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption stand-by	160 mA
Current consumption active	200 mA
Environmental class as per VdS	II
Ambient temperature	-10 °C to +50 °C
Storage temperature	-25 °C to +70 °C
Activation	Quiescent current group, operating current group, differential detector group
Dimensions PCB (L x W)	158 x 112 mm

For GSM and GPRS conection RFW-3000/RFW-4000 applicable.

- Sending e-mails via Ethernet or ISDN internet dial-up connection by means of the PPP protocol
- Simultaneous use of all transmission types and transmission channels possible
- 20 telephone numbers, 4 dial-up access numbers for X.31 and 10 e-mail addresses programmable
- Permanent monitoring of the transmission paths and system states including recording
- Integrated protocol analyser for service purposes
- Intelligent anti-block function for ISDN with protection of emergency call connection
- Telephone number check and password prompt for remote access
- Remote control functions via voice or DTMF
- Language-supported user guidance for remote access and remote control over the telephone
- Parameterisation via WINFEM Advanced or via control panel operating unit
- Direct connection of a GPS antenna and transmission of the site coordinated possible
- NTP functionality allows time synchronisation by polling an NTP server in the intranet or by internet
- Connection to digital video transmission systems via VdS 2465 S3 (picture surveillance systems)
- Transmission of IDENT-KEY personal data for documentation and reproducibility of operating procedures
- Transmission of detailed information of compatible hazard detection systems including texts for zones, groups and detectors
- Communication with Smartphone App possible

The integrated DTMF detection allows remote control functions and remote inquiries to be carried out from any telephone connection that runs with the DTMF dialling method. An integrated language-supported user guidance allows an easy intuitive operation of remote control and remote inquiry.

When used as a stand-alone device, the integrated BUS-2 interface allows a connection of BUS-2 5-input or 5-output modules. Moreover, 80 additional inputs or outputs can be set up, allowing very extensive monitoring and control tasks to be covered.

It is possible to connect up to 2 video control panels via TCP/IP (Ethernet). Communication is by the VdS-compliant protocol VdS 2465-S2 via an online TCP/IP connection. The video control panel acts towards the DS 7700 like a monitoring control panel according to VdS 2471 and 2465-S2.

The interconnection of intrusion detection control panel and video control panel offers a functional integration of both systems and cross-system interactions, such as the control of the video control panel by operating states of the intrusion detection control panel, display of names in the video picture during access control and switching operations.

The functionalities of the two systems complete each other and are not only available to the management system of the security services for informative assessment of the situation during the alarm pretest and to allow them to intervene even more quickly, but can also be used for future video-based services, such as automatic guard patrols or live monitoring of operating procedures and switching operations.

Functional diagram

Accessories:

057655	FDS connection board for transmission device
057631	Sheet steel housing ZG0
057632	Sheet steel housing ZG1 with room for power supply unit and accumulator
057530.10	Power supply/charger unit 12 V DC / 7.2 Ah integratable in art. no. 057632
018004.10	12 V DC / 6.5 Ah accumulator
057575	RFW-3000 GSM/GPRS transmission system
057590	RFW-4000 GSM/GPRS add-on module
057550	ADO-8 / TAE6 / IAE covering case
057551	Covering case in NTBA and terminal box

For MB12 / MB24

012835	Mechanical kit

Application example DS 7700

Functional diagram

Accessories for transmission devices

057655 FDS connection board for transmission device

The optional ATS adapter for fire panels provides an interface for fire alarm systems according to DIN 14675, appendix B and VdS 2463. The adapter permits the transmission of fire and fault notifications from fire alarm panels by means of DS 7700 / DS 7600 / DS 6700 / DS 6750.

- Interface according to DIN 14675 and VdS 2463
- Inputs for transmission of alarm indications from fire alarm systems
- For use in fire alarm systems with 12 V DC or 24 V DC power supply voltage

012835 Mechanical kit for MB24/MB12

For installing transmission devices (DS 6600, DS 7600, DS 7700, DS 9500, DS 6700, DS 6750). Inclouded in range of delivery of item no. 057872.20.

Technical Data

Dimensions (W x H x D)	112 x 175.5 x 1.5 mm

057631 Additional housing ZG0 for transmission devices

For installing transmission devices (DS 6600, DS 7600, DS 7700, DS 9500, DS 6700, DS 6750).

Technical Data

Housing	with hinged door: 2 mm sheet steel powder-coated
Fastener	via seal
Colour	grey-white, similar to RAL 9002
Dimensions (W x H x D)	230 x 155 x 90 mm

No room for emergency power supply.

057632 Additional housing ZG1 for transmission devices

For installing transmission devices (DS 6600, DS 7600, DS 7700, DS 9500, DS 6700, DS 6750) plus a power supply type 057530.10 and battery.

Technical Data

Housing	with hinged door: 2 mm sheet steel powder-coated
Fastener	via seal
Colour	grey-white, similar to RAL 9002
Dimensions (W x H x D)	300 x 186 x 125 mm

Room for emergency power supply 057530.10 and 1 accumulator 018002.10 or 018004.10.

057550 **ADO-8 / TAE-6 / IAE covering case**

Steel sheet housing with tamper switch and sealable cover for covering an ADO 8, telecom socket and ISDN connection unit. According to the current regulations of TELEKOM and VdS.

Technical Data

Dimensions (W x H x D)	120 x 135 x 75 mm
Colour	grey-white, similar to RAL 9002

057551 **Covering case for NTBA and terminal box**

Sheet steel housing with tamper switch and sealable cover. According to the current regulations of TELEKOM and VdS.

Technical Data

Dimensions (H x W x D)	230 x 230 x 75mm
Colour	grey-white, similar to RAL 9002

057846 **ISDN connecting cable including two Western connectors, 1.5 m**

057850 **ISDN terminal box**

For connection to two separate exchange lines.

RFW-4000 / RFW-3000

The VdS-approved “redundant radio path” serves as independent transmission path for transmitting hazard messages via ISDN and GSM networks D1 and Vodafone to a rescue service (security service).

The reason for using redundant transmission paths or replacement paths are the corresponding specifications of the VdS guidelines or requirements of users subject to an increased safety risk as a result of a higher risk of possible attacks.

Replacement path:

An additional transmission path to be switched to when a fault occurs in the main transmission path. According to the VdS, the replacement transmission path must run over separate lines to the object and also the receiving centre.

Ideally, the replacement path should be laid through a network independent of the main transmission path (e.g. GSM network). According to VdS, both transmission paths must be checked periodically for availability and functioning.

The system RFW-4000 is designed as a plug in board for the transmission devices DS 6700 and DS 6750 for the realization of a redundant transmission path. Thus no separate housing for the transmission system is required.

In connection with the redundant radio channel RFW-3000, the DS 7700 can connect to the internet via the GSM service GRPS (General Packet Radio).

Both systems allows you to establish online and demand-controlled IP connections to an alarm receiver. Like the hardwired Ethernet IP connections, they can also be used encrypted or non-encrypted. It must be possible to configure the alarm receiver for the reception of alarm messages from IP data networks (e.g. DEZ 9000).

The technical data of the GMS terminal are based on information from the manufacturer.

Intrusion detection system with transmission device

Fixed link paths

Receiving control panel

Building being monitored

Control centre

Accessories:

057530.10	Power supply/charger unit 12 V DC / 7.2 Ah
010686.01	Power supply/charger unit 12 V DC / 17 Ah
018004.10	12 V DC / 6.5 Ah accumulator
057846	ISDN connecting cable including two Western connectors, 1.5 m
057850	ISDN connecting cable including two Western sockets
057550	AD08/TAE6/IAE covering case

RFW-4000 system

057590 **RFW-4000 GSM/GPRS add-on module**

Approval **Class C (IDT) G111803**

Add-on module with GSM terminal, redundant radio path.
GSM-/ GPRS information transmission for digital auto diallers.

The RFW-4000 system enables a digital transmission of technical fault messages, hazard messages and emergency calls via GSM /GPRS networks to assistance providing centers (receiving center of a security service).

The device is built as an plug-in pcb for compatible transmission devices to realize a redundant radio path. Thereby no separate housing for the transmision system is required.

On failure of one of the two transmission paths, hardwired or wireless, at one an appropriate fault message will be transmitted via the other existing redundant transmission path. A specific routine call function enables an alternating transmission of the test message on both transmission paths.

If the radio medium is the only transmission path available, the RFW-4000 can be used in conjunction with a suitable transmission device. This provides a monitoring of objects even without an existing hardwired transmission path, e. g. in weekend cottages, chalets, store rooms, boats, or movable buildings according to VDE0100/0108.

Performance Features

- Adaptable to DS 6700, DS 6750, DS 7600, DS 7700
- No external housing required
- I ncluded antenna can be mounted on panel housiing
- Optional external antenna connectable

Protocols:

- VdS 2465 S2
- Fix and demand controlled IP connections via GPRS
- AES - encryption
- Chiasmus - encrption (DS 6750, DS 7700)
- Telim and speech
- Contact ID (with DS 6750 only)
- E-mail via GPRS (DS 6750, DS 7700)
- SMS
- NTP via GPRS (DS 6750, DS 7700)
- Mounting also possible in MB12 and MB24

Technical Data

Rated operating voltage	+12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption in no-load operation	15 mA
Current consumption active transmission operation GSM	typ. 50 mA
Current consumption active transmission operation GPRS	typ. 100 mA
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions PCB (W x H x D)	65 x 110 x 30 mm

RFW plug-on module.
GSM antenna with mounting bracket suitable for universal mounting on Honeywell housings.

Accessories:

057591 GSM exterior antenna with 5 m cable
057592 GSM cable, 5 m

Diallers and transmission protocols with RFW-4000

Dialler	Item no.	As of firm-ware version	Transmission path wired	Transmission path wireless	Transmission protocol in GSM / GPRS
DS 7600	**057650.20**	V05.xx	ISDN	GSM	VdS 2465 / SMS
DS 7700	**057651.20**	V05.xx	ISDN	GSM GPRS	VdS 2465 SMS / E-Mail IP-Verbindung bedarfsgesteuert IP-Verbindung stehend
DS 6700	**057864**	V03.xx	PSTN	GSM GPRS	VdS 2465 Speech Telim / SMS IP conection demand-actuated IP conection dedicated line
DS 6750	**057865**	V03.xx	PSTN	GSM GPRS	VdS 2465 Speech Telim / SMS Contact ID E-Mail IP conection demand-actuated IP conection dedicated line

057591 **GSM exterior antenna with 5 m cable**

GSM exterior antenna with fastening clamp, cable adapter FME tof MMCX and mounting material, suitable for 057590 and 057575.

057592 **GSM cable, 5 m**

Extension cable for GSM exterior antennea, 057591, suitable for 057590 nd 057575.

System RFW-3000

057575 **RFW-3000 GSM/GPRS transmission system**

Approval **G106801 (IDT) in conjunction transmission device DS 7600**
G106802 (IDT) in conjunction transmission device DS 7700

GSM/GPRS information transmission system for digital transmission systems DS 7600, item no. 057650.20 and DS 7700, item no. 057651.20.

Installation option for: Emergency power supply, 010686.01 or 057530.10; accumulator 6.5 Ah, 018004.10.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	10.5 V DC to 15 V DC
Current consumption	22 mA
Current consumption active	<100 mA
Operating temperature range	-10 °C to +55 °C
Storage temperature	-25 °C to +70 °C
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Colour	grey-white, similar to RAL 9002
Dimensions (W x H x D)	350 x 300 x 152 mm

For setting up a complete transmission system, a DS 7600 or DS 7700 with article no. Index .20 is required.
RFW-3000 GSM can be used and is compatible with:
DS 7600 (057650.20) DS 7700 (057651.20) each from firmware version V02.25.

GSM terminal with serial connecting cable; connection pcb and power supply cable; antenna for GSM terminal; application forms; housing ZG2.

Accessories:

057591	GSM exterior antenna with 5 m cable
057592	GSM cable, 5 m

Application example

RFW-3000 GSM/GPRS in Verbindung mit Gefahrenmeldeanlagen

All required components can be housed in the housing of the RFW-3000 (ZG2).

For setting up a complete transmission system, an ISDN transmission device DS 7600 or DS 7700 is required.

This ISDN transmission device can be installed, depending on the application, in the housing of the RFW-3000 or in the housing of the hazard detection control panel.

The activation of the transmission system can be effected, depending on the particular requirements, via the 8 inputs of the ISDN transmission device (parallel S1) or, when being used on compatible control panels, via BUS-2 or I-BUS.

It goes without saying that the RFW-3000 also allows functions, such as:
- Remote programming,
- Remote diagnosis and
- Remote inquiry

via ISDN.

When the system is activated via BUS-2 or I-BUS, teleservice for the connected hazard detection system is also possible.

In addition, extensive test and diagnostic options for the GSM components have also been implemented.

RFW-3000 GSM as “stand-alone” version

As “stand-alone” device, the RFW-3000 can be used in connection with an ISDN transmission device, if:
- the transmission of messages for a monitored object is required and
- no wire-bound telephone connection is available.

For example, this can be the case in: weekend homes, chalets, storage rooms, boats, portable buildings acc. to VDE 0100/0108, etc.

Only the top graphic meets the VdS requirements.

Radio product line
- MB Radio System

MB radio system (BUS-2 user)

Performance Features

- Advanced radio transmission technology
- 2 radio bands: 433MHz / 868MHz
- A total of 24 radio channels distributed over 2 radio bands
- Wireless radio system on integrated BUS-2 basis
- Each radio user has a unique address.
- Radio polling to all bidirectional radio users
- Permanent monitoring of the availability of the radio transmission path
- Intelligent external signal monitoring for detecting radio signals that do not belong to the system
- Function monitoring of all radio users assigned to the system
- Tamper monitoring of all radio users
- Radio revision mode for determining the installation range
- Connection to intrusion detection central units via BUS-2 (MB12, 561-MB24, 561-MB48, 561-MB100 of Item no. Index .10 only)
- Simple commissioning by means of the installation mode of the WINFEM Advanced programming software

The new innovative radio system offers completely new opportunities of protecting human life and property values. Developed from the very start as a combined system, it is designed for securing privately owned homes, smaller and also larger commercial objects. In case of imminent danger, such as burglary, hold-up or even fires, it reliably signals an alarm via the alarm signalling devices of the connected intrusion detection control panel.

The radio system can be integrated into the following intrusion detection control panels: 561-MB12, 561-MB24, 561-MB48, 561-MB100.

The RF BUS-2 wireless receiver (Item no. 015600.01) is used as a radio gateway between the radio technology and the BUS-2. This is why no special radio intrusion detection control panel is required.

This innovative RF BUS-2 wireless receiver uses a bidirectional radio connection to establish communication with up to any 16 radio users. Each RF BUS-2 wireless receiver works as an autonomous radio cell in its transmission and reception range.

During commissioning of the radio system, the radio users are read in and assigned permanently to the RF BUS-2 wireless receiver by means of a unique address.

The commissioning and also the programming of the radio system is done conveniently via a PC/laptop using the parameterisation software WINFEM Advanced.

The devices item no. 015600, 015601, 015610 and 015620 have been changed in quarter 3/2011 to the follow-up products item no. 015600.01, 015601.01, 015610.01 and 015620.01 witch are compatible in function and housing.

015600.01 RF BUS-2 wireless receiver

Approval **G108504 (IDT), Class B**

The RF BUS-2 wireless receiver is used for extending and supplementing compatible hazard detection systems that provide a BUS-2 (MB12/24/48/100.10). The RF BUS-2 wireless receiver allows a bidirectional radio alarm system of the most advanced radio technology to be set up and operated.

This RF BUS-2 coupler provides the functions of a gateway connected on one side to the hazard detection control panel by means of a wired BUS-2 connection. On the other side, the RF BUS-2 wireless receiver can then address up to any 16 radio users via the bidirectional radio connection.

Technical Data

Operating voltage U_b	12 V DC (power supply via BUS-2)
Current consumption	typ. 15 mA
Frequency band 1	433 MHz
Frequency band 2	868 MHz
Range within open area	typ. 300 m
Installation position	any
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without antennae (W x H x D)	118 x 118 x 31 mm
Aerial (L)	75 mm and 135 mm
Colour	traffic white, similar to RAL 9016

015601.01 RF 4 I/O module

Approval G108505 (IDT), Class B

Conventional detectors and contacts, for example passive glass breakage sensors, opening contacts, can be wired to the RF 4 I/O module. It also offers the option of addressing up to 4 outputs (by means of potential-free relay pcbs) and a buzzer.

The RF 4 I/O module can be supplied with power from batteries, a power supply unit or a combination of batteries and power supply unit. This allows a universal adaptation to different premises-specific surroundings and applications.

Performance Features

- 4 universal detector groups available
- 4-outputs optionally expandable by relay cards
- Connection of power supply unit possible
- Radio revision mode for determining the installation range
- Connection to intrusion detection control panels via RF BUS-2 wireless receiver
- Monitoring of battery status
- Permanent radio monitoring by radio polling

Technical Data

Frequency band 1	433 MHz
Frequency band 2	868 MHz
Range within open area	typ. 300 m
Installation position	any
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature without batteries	-25 °C to +70 °C
Storage temperature with batteries	25 °C +/-10 °C
Dimensions without antennae (W x H x D)	200 x 144 x 39 mm
Aerial (L)	75 mm and 135 mm
Colour	traffic white, similar to RAL 9016
Battery mode	
Operating voltage U_b	2 battery packs, Item no. 015605
Battery life expectancy	typ. 3.5 years
Current consumption (without activations of the current consumers)	100 µA
Power supply mode	
Rated operating voltage range	10 V DC to 15 V DC
Current consumption in no-load operation (without activations of the current consumers)	10 mA

Batteries not included (2 required).

Accessories:

015605	Lithium battery for radio components, including a connecting cable, 2 cables required
015602	Relay card, 1 output for RF 4 I/O module (a maximum of 4 can be fitted)

015602 Relay card, 1 output for RF 4 I/O module, for MB radio system

Relay card, 1 output for RF 4 I/O module, provides a potential-free output.

Technical Data

Relay contact	normally open contact
Relay contact rating	30 V DC / 1 A

015630 RF Panic Button

The RF Panic Button can be used for the external and internal arming of the intruder alarm control panel (IACP).If programmed, the RF Panic Button can be used for transmitting a hold-up alarm as well as e. g. for switching on the outdoor illumination.

Operation is by commercially available button cell, type CR2032.

Technical Data

Power supply	Button cell, CR2032
Battery life expectancy	typ. 2 years
Quiescent current	typ. 5 µA
Current consumption transmitting	30 mA
Transmitting range in open space	typ. 150 m with unrestricted view
Type of protection EN 60529	IP40
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-20 °C to +70 °C
Dimensions (W x H x D)	37 x 75 x 15 mm
Colour	greywhite, similar to RAL 9002

For operation at 015600.01 firmware version V01.06 or higher necessary

Number of usable RF Panic Button per panel:

MB12	= 10 RF Panic Buttons
561-MB24	= 10 RF Panic Buttons
561-MB48	= 16 RF Panic Buttons
561-MB100	= 32 RF Panic Buttons

Battery CR2032 included.
Replacement requirement can be obtained from specialised trade for electrical equipment.

Performance Features

- 4 Buttons for "External arming", "Disarming", "Internal arming" and "Control"
- Hold up alarm / panic (2 buttons simultaneously)
- Every function individually to be activated in WINFEM
- 3 Control LEDs
- Optical display of correct wireless transmission
- Connection to intrusion detection control panels via RF BUS-2 wireless receiver
- Monitoring of battery status

015610.01 Viewguard PIR RF, radio PIR motion detector

VdS **Approval** **G108506 (IDT), Class B**
G108508 (IDT), Class B, retrofitted for curtain optics
G108507 (IDT), Class B, retrofitted for route optics

Passive infrared motion detector with surface mirror optics in wireless radio technology. The radio technology used by means of the dual-band transmission mode guarantees maximum transmission safety.

Technical Data

Operating voltage U_b	1 battery pack, Item no. 015605
Battery life expectancy	typ. 2.5 years
Current consumption	typ. 65 µA
Frequency band 1	433 MHz
Frequency band 2	868 MHz
Range within open area	typ. 300 m
Range	programmable
Volumetric optics	8 / 11 / 13 / 15 m
Long range optics	29 / 35 / 42 / 50 m
Curtain optics (vertical)	17 / 21 / 25 / 30 m
Sensitivity	programmable normal / high
Installation position	vertical, optics at the bottom
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature without batteries	-25 °C to +70 °C
Storage temperature with batteries	25 °C +/-10 °C
Dimensions (W x H x D)	64 x 158 x 48 mm
Colour	traffic white, similar to RAL 9016

Batteries not included (1 required)

Performance Features

- Surface mirror optics for monitoring 12 m x 12 m areas
- Can be retrofitted for route or curtain optics by replacing the mirror optics
- Detection sensitivity can be programmed from the control panel
- Range can be programmed from the control panel (mirror optics)
- LED display
- LED indications off mode possible
- Radio revision mode with selective LED display
- Temperature alarm with programmed alarm threshold
- Cover contact and tear-off protection
- Housing suitable for corner and wall mounting
- Monitoring of battery status
- Permanent radio monitoring by radio polling

Accessories:

015605	Lithium battery for radio components, including connecting cable
033434	Viewguard PIR set of mirrors, curtain optics (3 per packaging unit)
033435	Viewguard PIR set of mirrors, route optics (3 per packaging unit)
033390.17	Adjusting hinge, horizontal W 20°, vertical +4° to -8°
033588.17	Ball joint set for wall and corner mounting
033391.17	Seal, (20 per packaging unit)

015620.01 RF smoke detector base

Approval **VdS approval as technical detector (detector base + detector)**
G109510 (062092 Fixed temperature detector IQ8Quad)
G109511 (062093 Rate-of-rise heat detector IQ8Quad)
G109512 (062094 Optical smoke detector IQ8Quad)
G109513 (062095 O2T multi-sensor IQ8Quad)
G109514 (062096 OTG multi-sensor (CO) IQ8Quad)

The fire dectector base allows a fire detector of the IQ8Quard series to be operated on an intrustion detection panel. Connection to a hazard detection system is wireless via an RF-2 wireless receiver (015600.01).

Following combinations of automatic fire detector and smoke detector base are tested by VdS as technical detector.

Please order a suitable detector head for the detector base:

Item no.	Designation
062092	Fixed temperature detector IQ8Quad
062093	Rate-of-rise detector IQ8Quad
062094	Optical smoke detector IQ8Quad
062095	O2T intelligent detector IQ8Quad
062096	OTG intelligent detector IQ8Quad

Detector testing devices are available upon request.

Performance Features

- Detection and transmission of dirty or faulty smoke detectors
- Tamper detection (optional)
- VdS-compliant operation as technical detector
- Radio revision mode for determining the installation range
- Connection to intrusion detection control panels via RF BUS-2 wireless receiver
- Monitoring of battery status
- Permanent radio monitoring by radio polling

Technical Data

Voltage supply	4 batteries á 3.6 V
Battery life expectancy	typ. 2.5 to 5 years depending on detector head
Frequency band 1	433 MHz
Frequency band 2	868 MHz
Transmitting range	typ. 300 m with clear view
Type of protection EN 60529	IP42 (with detector head)
Environmental class as per VdS	II
Operating temperature range	-5 °C to +55 °C
Storage temperature without batteries	-25 °C to +70 °C
Storage temperature with batteries	25 °C +/-10 °C
Dimensions with detector head (Ø x H)	135 x 88 mm
Colour	white, similar to RAL 9010

A fire detection system according to VDE 0833 part 2, DIN 14675 or EN 54 doesn`t result by the connection of the smoke detector base.

Batteries included.

Accessories:

015625 Battery pack, lithium, 4 x 3.6 V

Accessories

015605 Lithium battery for MB radio components

Lithium battery for radio components of the MB radio system, including connecting cable.

015625 Lithium batteries

4 Lithium batteries á 3.6 V

Notes

Display and operating units

- Operating App
- BUS-2 operating unit product line
- Compact operating units

Honeywell MB-Remote Control App for Android

Performance Features

- Convenient visualization of system status
- Remote control of the system via a smartphone/tablet
- Easy storage for as many systems as required
- Choice of 3 views
- Automatic, position-dependent view in portrait and landscape format
- Automatic size adjustment of the views
- 4 user groups per system to allow flexible rights allocation
- AES-encrypted connection is possible
- Free choice of switching routines via the button page in combination with macro activation in the control unit
- Freely definable configuration of the LEDs and buttons
- Connection to the control unit via WLAN, GPRS/UMTS
- Up to 3 active connections are possible
- Labels, display and control functions and display colours can be programmed in Winfem Advanced
- Settings for operation mode and installer mode
- Password protection as option
- Integrated rights management
- When used in stand-alone mode of transmssion devices, control of third-party devices

Visualization and control of the intruder detection unit via smartphone or tablet computer

iOS and Android app for mobile access to control units in the MB12/24/48/100 intruder detection range in combination with DS 7700, DS 6750 or DS 6700 transmission devices. In stand-alone mode, the dialing devices can also be used without a series-connected control unit.

You can establish a connection over your mobile device with your hazard alert system via WLAN or GPRS/UMTS from any remote location and at any time.

This app allows remote control and remote arming and/or disarming of your system. In addition, you can address pre-programmed inputs and outputs directly and display their status. Complex switching routines in the control unit can also be activated simply and rapidly via the freely definable buttons. Furthermore, the status displays, which are also freely configurable, can be set to display your choice of control unit conditions or inputs.

Up to 3 app connections can access a control unit or a transmission device simultaneously. If you have an internet connection at your disposal, you can gain immediate, high security access to your alarm system via AES encryption from any location, request status reports at your convenience and activate switching routines remotely. A password protection as option gives additional security.

Simple operation and the familiar control display make it very easy for operators to learn to use this application. The Apps are available as a free-of-charge download from Google Play or the App Store. With the preconfigured test system the app can be tried out immediately.

Benefits for operators:

- Remote display and remote control of the intruder detection system
- Freely definable control function and status displays
- Display of responses from the control unit
- In the stand-alone mode for transmission devices, control routine initiation and visualization are possible for third-party units such as third-party control units, cooling systems, heating systems, air conditioning systems, etc.

Benefits for installers:

- Simplified maintenance with the aid of the mobile one-man revision facility and consequently reduced manpower requirements
- Remote service as a cost-efficient, additional service
- Mobile changes to an existing program at the customer's request

System Requirements:

Operating system	Android Version 2.1 or iOS 5.0 or later
Hardware	Andriod/iOS-compatible Smartphone or Smarttablet, iPhone, iPod, iPad
Control panel	MB12, 561-MB24/48/100 from V16.00
Transmission unit	DS 7700 from V06.00 or DS 67xx from V04.00
Programming software	WINFEM Advanced from V16.00
Internet access	via GPRS/UMTS or WLAN

013510 **Honeywell MB-Remote Control V2 App for Android**

013515 **Honeywell MB-Remote Control App for iOS**

BUS-2 operating units for MB series

High quality requirements on operation and a modern design are the specifications on the development of the remote control and information systems for the intrusion detection control panels of the HB and MB series. The operating and information systems for internal operation are distinguished by a clear organisation of the operating and display elements and large-sized buttons and displays.

The connection to the intrusion detection control panels is made via the BUS-2 interface.

In connection with the flush-mounting kit, a flush mounting can be realised.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V bis 15 V DC
Operating temperature range	-5 °C bis +45 °C
Storage temperature range	-25 °C bis +70 °C
Type of protection EN 60529	IP40
Environmental class as per VdS	II

The modules 012542.17 and 012548.17 can only be operated in connection with an LCD operating unit 012540.17, 021541.17 or operating unit with disabling unit 012532.17, 012544.17.

012540.17 2 x 40-digit LCD operating unit, German version

VdS **Approval** **G194120 (IDT), Class C; VSÖ W031210/16 E**

All operating and many programming functions can be carried out using this operating and display unit. Its high operating transparency is achieved, inter alia, by a 2 x 40-digit display with luminous background in certain situations and special function keys.

Complex operating or programming operations take place interactively, i.e. the operator is informed or instructed at any time by means of information or selection menus on the display.

Technical Data

Current consumption in no-load operation	60 mA
Current consumption with illuminated display	95 mA
Current consumption per LED	5 mA
Dimensions (W x H x D)	196 x 142 x 42 mm
Colour	traffic white, similar to RAL 9016

012540.F0.17 2 x 40-digit LCD operating unit, French version

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.G0.17 2 x 40-digit LCD operating unit, English version

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.HR.17 2 x 40-digit LCD operating unit, Croatian version

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.I0.17 **2 x 40-digit LCD operating unit, Italian version**

Technical Data	
Colour	trafficwhite, similar to RAL 9016

012540.NL.17 **2 x 40-digit LCD operating unit, Dutch version**

Technical Data	
Colour	trafficwhite, similar to RAL 9016

012540.P1.17 **2 x 40-digit LCD operating unit, Polish version**

Technical Data	
Colour	trafficwhite, similar to RAL 9016

012540.RO.17 **2 x 40-digit LCD operating unit, Romanian version**

Technical Data	
Colour	trafficwhite, similar to RAL 9016

012540.T0.17 **2 x 40-digit LCD operating unit, Czech version**

Technical Data	
Colour	trafficwhite, similar to RAL 9016

012540.U0.17 **2 x 40-digit LCD operating unit, Russian / Cyrillic version**

Technical Data	
Colour	trafficwhite, similar to RAL 9016

012540.W0.17 **2 x 40-digit LCD operating unit, Hungarian version**

Technical Data	
Colour	trafficwhite, similar to RAL 9016

Accessories

012550 **3-wire flat-band cable**

Operating unit/control panel connecting cable, 3 m, including plug.

For programming of control panels via 012540.17.

012542.17 16-DG disable and display module

VdS **Approval** **G194121 (IDT), Class C; VSÖ W 031210/17 E**

The module enables simple operation of up to 16 detector groups. For each detector group, an indication LED for the “Alarm” and “Disabled” states and a disabling key are available.

Rapid identification of an alarm site is achieved by plain text labelling fields for each detector group. The inscription labels can be easily printed with customer-specific texts by means of WINFEM Advanced.

Technical Data

Current consumption in no-load operation	25 mA
Current consumption per LED	5 mA
Dimensions (W x H x D)	196 x 142 x 32 mm
Colour	traffic white, similar to RAL 9016

012548.17 16-DG display module

VdS **Approval** **G198047 (IDT), Class C; VSÖ W 070427/75 E**

For each detector group, one indication LED each for the “Alarm” and “Disabled” states and a plain text labelling field are available.

The inscription labels can be easily printed with customer-specific texts by means of WINFEM Advanced.

Technical Data

Current consumption in no-load operation	25 mA
Current consumption per LED	5 mA
Dimensions (W x H x D)	196 x 142 x 32 mm
Colour	traffic white, similar to RAL 9016

012544.17 16-DG operating unit (10 DGs can be disabled)

VdS **Approval** **G194122 (IDT), Class C; VSÖ W 070427/74 E**

The operating unit contains the following operating and display elements: Set of keys for Disable/Enable detector groups 1-10; ON/OFF key (various functions); LEDs for detector groups 1-10 “disabled”; LEDs for detector groups 1-16 “Alarm”; LEDs for operation, dis-armed, internally armed, enable, fault and alarm; integrated buzzer.

The inscription labels can be easily printed with customer-specific texts by means of WINFEM Advanced.

Technical Data

Current consumption in no-load operation	25 mA
Current consumption per LED	5 mA
Dimensions (W x H x D)	196 x 142 x 32 mm
Colour	traffic white, similar to RAL 9016

012544.G0.17 16-DG operating unit (10 detector groups can be disabled)

Technical Data

Colour	trafficwhite, similar to RAL 9016

012532.17 8-DG compact operating unit with disabling unit

Approval **G194123 (IDT), Class C; VSÖ W 031210/20 E**

The operating unit contains the following operating and display elements: Set of keys for Disable/Enable detector groups 1-8; ON/OFF key (various functions); displays for detector groups 1-8 “disabled”; LEDs for detector groups 1-8 “Alarm”; LEDs for operation, disarmed, internally armed, enable, fault and alarm; integrated buzzer.

The inscription labels can be easily printed with customer-specific texts by means of WINFEM Advanced.

Technical Data

Current consumption in no-load operation	25 mA
Current consumption per LED	5 mA
Dimensions (W x H x D)	196 x 142 x 32 mm
Colour	traffic white, similar to RAL 9016

012546.17 Flush-mounting and extension kit

The surface-mounted components can be converted for flush mounting by means of the flush-mounted housing and the flush-mounted cover frame. Any combinations are possible.

Technical Data

Colour	traffic white, similar to RAL 9016

Example of possible flush-mounted arrangements

TouchCenter Tuxedo keypad complete set

013002 **Keypad TouchCenter Tuxedo, white**

NEW

VdS **Approval** **VdS class C (applied)**
EN 50131 Grade 3 (applied)

Complete set Touch keypad white, existing of:
- Touch bezel, white, item no. 013030
- Touch front unit incl. electronics, white, item no. 013031
- Case back deep, white, item no. 013040

To be used as replacement for “TouchCenter TFT BUS-2 graphic operating unit”, item no. 012577.10, with MB12/24/48/100 with the features of item no. 012577.10.

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	160 mA (when idle); 250 mA (max. screen brigthness); 310 mA (max. screen brigthness + buzzer)
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +60 °C
Environmental class as per VdS	II
Type of protection EN 60529	IP40
Screen diagonale	7” (17,78 cm)
Screen format	16 : 9
Dimensions (W x H x D)	218 x 162 x 35 mm
Colour	traffic white (similar to RAL 9016), optional basalt grey (similar to RAL 7012) or optional traffic black (similar to RAL 9017)

Performance Features

- Dialog managed intuitive user guidance via symbols
- Plain text display of all messages
- Clearly organised display of the system status
- Connection to the control panel via BUS-2
- 7” colour display with touch screen function
- Switchable display colour scheme
- Flash technology for updates
- Different languages possible
- Graphic can be displayed as background image (e.g. company logo/family coat of arms)
- Optical appreciation by use as electronic picture frame
- Slideshow functionality
- Max. size of SD card: 16 GB
- Up to 12 operating units can be connected to one control panel

Accessories:

013030	TouchCenter Tuxedo, bezel, white
013032	TouchCenter Tuxedo, bezel, grey
013034	TouchCenter Tuxedo, bezel, black
013036	TouchCenter Tuxedo, bezel, clear
013040	Case back deep, white
013041	Case back deep, grey
013042	Case back deep, black
013046	f. m. installation box, white
013047	f. m. installation box, grey
013048	f. m. installation box, black

The compact operating unit are used as display and operating units with the control panels of the AB series and the HB/MB24 and HB/MB48. The connection to the control panels is made via the easy to install 3-wire technologie.

If not in use the operator panel is covered with a flap.

010935 **Compact operating unit for IACP HB/MB24 and HB/MB48**

Approval **G198053 (IDT), Class C; VSÖ W031210/14 E**

This operating unit allows you to carry out all operating procedures, such as internal arming/disarming, disabling detector groups or clearing alarms.

LEDs for the criteria operation, disarmed, internally armed, operation enable, and collective alarm are available. Operation and display are possible with or without code input.

Technical Data

Operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption in no-load operation	25 mA
Current consumption with buzzer	30 mA
Current consumption per LED	7 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Type of protection EN 60529	IP40
Dimensions (L x W x D)	100 x 192 x 34 mm
Colour	grey-white, similar to RAL 9002

A maximum of 4 operating units can be connected.

Connection modules

- BUS-2
- BUS-1

List of BUS users

Article No.	Designation	Dimensions W x H x D	I_R (typ.)	Required address space
BUS-2/BUS-1				
010134.10	1 Detector group module BUS-2/BUS-1, s. m.	85 x 109 x 30	5 mA (+0.6 per input)	- 1 -
010135.10	2 Detector group module BUS-2/BUS-1, s. m.	85 x 109 x 30	5 mA (+0.6 per input)	2 / 1
010128	2 Detector group module BUS-2/BUS-1, f. m.	Ø 58 x 26	5 mA (+0.6 per input)	2 / 1
010130	DUO I/O module BUS-2/BUS-1, s. m.	85 x 109 x 30	5 mA (+0.6 per input)	4 / 1
010131	DUO relay module 230 V AC / 8 A, surface mount	80 x 109 x 30	< 20 mA per relay	–
010120.17	DUO I/O module BUS-2/BUS-1	Ø 58 x 26	5 mA (+0.6 per input)	4 / 1
010121.17	DUO relay module 230 V AC / 8 A, flush-mounted	Ø 58 x 26	< 20 mA per relay	–
062090	Smoke Detector Base BUS-2/BUS-1	Ø 117 x 25	3 mA	- 1 -
032211.17	IDENTLOC EU BUS-2 / BUS-1	118 x 118 x 31	12 mA (+3 mA per sensor)	5 / 1
033332.21	Viewguard PIR BUS-2/BUS-1	64 x 130 x 48	0.6 mA (BUS-2) 3.0 mA (BUS-1)	- 1 -
033432.21	Viewguard PIR AM BUS-2/BUS-1	64 x 130 x 48	0.6 mA (BUS-2) 3.0 mA (BUS-1)	- 1 -
033442.21	Viewguard DUAL AM BUS-2/BUS-1	64 x 158 x 48	6.6 mA (BUS-2) 9.0 mA (BUS-1)	- 1 -
033443.21	Viewguard DUAL BUS-2/BUS-1	64 x 158 x 48	6.6 mA (BUS-2) 9.0 mA (BUS-1)	- 1 -
BUS-2				
013130.17	5-input module	118 x 118 x 31	6 mA	- 1 -
013131.17	5-output module	118 x 118 x 31	3 mA	- 1 -
013133	Mini module	40 x 18 x 13	1 mA	- 1 -
041220	2-Relay 2-Input Module BUS-2, surface mount	85 x 109 x 30	4 mA (+0,4 per input)	- 1 -
013128.17	Isolation module	85 x 109 x 30	3 mA	- 1 -
022160.20	IDENT-KEY IK2 evaluation unit	118 x 118 x 31	50 mA	- 1 -
023312.17	IDENT-KEY IK3 evaluation unit	118 x 118 x 31	15 mA	- 1 -
010935	Compact keypad	100 x 192 x 34	25 mA	- 1 -
012540.17	2 x 40-digit LCD operating and display panel	196 x 142 x 42	60 mA	- 1 -
012541.17	2 x 40-digit LCD operating and display panel	196 x 142 x 42	60 mA	- 1 -
012544.17	10-detector group operating and display panel	196 x 142 x 42	25 mA	- 1 -
012532.17	8-detector group operating and display panel	196 x 142 x 42	25 mA	- 1 -
012542.17	16-detector group operating and display panel	196 x 142 x 42	25 mA	- 1 -
012548.17	16-detector group display module	196 x 142 x 42	25 mA	- 1 -
013002/31/33/35	Keypad TouchCenter Tuxedo	218 x 162 x 35	160 / 310 mA[3)]	- 1 -
013000/11/13/15	LED keypad for MB-Secure	218 x 162 x 35	20 mA (88 mA max.)	- 1 -
013001/21/23/25	LED/LCD keypad for MB-Secure	218 x 162 x 35	20 mA (98 mA max.)	- 1 -
015600.01	RF BUS-2 wireless receiver	118 x 118 x 31[2)]	15 mA	- 1 -
041450.17	Doorguard Plus BUS-2	110 x 243 x 53	15 mA	- 1 -
044500	Sounder/Flasher with 2 Inputs BUS-2	110 x 103 x 53	4 mA (+0,4 per input)	- 1 -
041470	proX Keyswitch BUS-2	110 x 140 x 53	15 mA	- 1 -
BUS-1				
010111	Universal connection module, surface-mounted version	41 x 48 x 16	2 mA	- 1 -
010112	Universal connection module, flush-mounted version	Ø 54 x 32	2 mA	- 1 -
041150.17	Switching module 24 V DC/1 A	85 x 109 x 30	0.5 mA	- 1 -
041151.17	Switching module 250 V AC/5 A	85 x 109 x 30	0.5 mA	- 1 -
010116.17	Active distributor module	85 x 109 x 30	2.5 mA	- 1 -
022310.17	Door module 1 (for block lock)	118 x 118 x 31	15 mA	- 3 -
033370/71/72	PIR detector SCM 2000	57 x 138 x 49	2.5 mA	- 1 -
033401/04/07	PIR detector SCM 3000	57 x 138 x 49	4 mA	- 1 -
032420	DETEKT 1000	73 x 100 x 43	4 mA	- 1 -
031540	Hold-up button module	79 x 115 x 50	0.5 mA	- 1 -
042235.17	Indoor flasher	85 x 87 x 34	8.5 mA	- 1 -
043050	Module for indoor siren, BUS-1[1)]	79 x 115 x 50	0.5 mA	- 1 -
043060.17	Piezo indoor siren	85 x 87 x 34	4 mA	- 1 -
010125	BUS-1 operating unit key-operated lock	85 x 123 x 56	2.8 mA	- 2 -

Legend: [1)] = in surface-mounted single housing [2)] = without antenna [3)] = without / with display illumination

010134.10 1 Detector group module BUS-2/BUS-1, s.m.

NEW

VdS **Approval pending**

This module is intended for extension of a MB-Secure- or MB12/24/48/100/256 plus series intruder panel with control and power supply over BUS.

The detector group input with reset function allow detectors with hardwired connection technology to be integrated to the BUS system (e.g. contacts and passive glass breakage sensors).

By the installation-friendly connector terminals design an economical and secure mounting is ensured.

With the universal BUS interface the module can be operated at every BUS-2 or BUS-1 - compatible panel.

Performance Features

- Double screw-plug-terminals for BUS connection
- Detector group input with two free terminals
- Operation on BUS-2:
  - Operation as DUO I/O module
  - Operation as 5-input module (compatibility mode)
- Operation on BUS-1:
  - Operation as detector group connection module or universal connection module, as desired
- 1 detector group inputs with clearing function
- Optional end-of-line resistors selectable from 4k to 14k
- 1 LED as detector group status display or with freely programmable function (depending on the operating mode)

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	3.5 mA, 0.6 mA in addition detector group, 1.3 mA in addition LED
Detector zone input	with clear function, monitoring range 12k1 ±20%
Type of protection EN 60529	IP40
Environmental class	II
Operating temperature range	-10 °C bis + 55 °C
Storage temperature range	-25 °C to + 70 °C
Dimensions (L x W x D)	85 x 109 x 30 mm
Colour	traffic white, similar to RAL 9016

010135.10 2 Detector group module BUS-2/BUS-1, s.m.

NEW

VdS **Approval pending**

This module is intended for extension of a MB-Secure- or MB12/24/48/100/256 plus series intruder panel with control and power supply over BUS.

The detector group inputs with reset function allow detectors with hardwired connection technology to be integrated to the BUS system (e.g. contacts and passive glass breakage sensors).

By the installation-friendly connector terminals design an economical and secure mounting is ensured.

With the universal BUS interface the module can be operated at every BUS-2 or BUS-1 - compatible panel.

Performance Features

- Double screw-plug-terminals for BUS connection
- Detector group inputs with each two free terminals
- Operation on BUS-2:
  - Operation as DUO I/O module
  - Operation as 5-input module (compatibility mode)
- Operation on BUS-1:
  - Operation as detector group connection module or universal connection module, as desired
- 2 detector group inputs with clearing function
- Optional end-of-line resistors selectable from 4k to 14k
- 2 LEDs as detector group status display or with freely programmable function (depending on the operating mode)

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	3.5 mA, 0.6 mA in addition per detector group, 1.3 mA in addition per LED
Detector zone input	with clear function, monitoring range 12k1 ±20%
Type of protection EN 60529	IP40
Environmental class	II
Operating temperature range	-10 °C bis + 55 °C
Storage temperature range	-25 °C to + 70 °C
Dimensions (L x W x D)	85 x 109 x 30 mm
Colour	traffic white, similar to RAL 9016

010128 2 Detector group module BUS-2/BUS-1, f.m.

Approval G109010 (IDT), Class C

This module is a further addition to the range of detector group and control modules. The 2 detector group inputs with clearing

function allow detectors with conventional connection technology to be integrated to the BUS system (e.g. contacts and passive glass breakage sensors).

With the universal BUS interface the module can be operated at every BUS-2 or BUS-1 - compatible panel.

Performance Features

- Operation on BUS-2:
  - Operation as DUO I/O module
  - Operation as 5-input module (compatibility mode)
- Operation on BUS-1:
  - Operation as detector group connection module or universal connection module, as desired
- 2 detector group inputs with clearing function
- Optional end-of-line resistors selectable from 4k to 14k
- 2 LEDs as detector group status display or with freely programmable function (depending on the operating mode)
- Easy mounting in flush-mounted installation box or hollow-wall box d = 60 mm (DIN, Austria and Switzerland)

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	5 mA, 0.6 mA in addition per detector group, 1.3 mA in addition per LED
Detector zone input	with clear function, monitoring range 12k1 ±20%
Type of protection EN 60529	IP40
Environmental class	II
Operating temperature range	-5 °C to + 45 °C
Storage temperature range	-25 °C to + 70 °C
Dimensions (ØxD)	Module: 58 x 26 mm
Dimensions (L x W x D)	Frame: 70 x 70 x 1 mm
Colour of front plate	traffic white, similar to RAL 9016

Corresponding screw driver.
1 module cover frame.
4-hole-foil.

010130 DUO I/O Modul BUS-2/BUS-1, s.m.

Approval G109010 (IDT), Class C

The DUO I/O module has the function of detector group modules and control modules. With the universal BUS interface the module can be operated at every BUS-2 or BUS-1 - compatible panel.

The 4 detector group inputs with clearing function allow detectors with conventional connection technology to be integrated to the BUS system (e.g. contacts and passive glass breakage sensors).

In addition, the module has 2 semiconductor outputs for any switching and control functions (max. 30 V DC / 50 mA per output). The operating voltage used for the external consumers can be the voltage from the module or from an external power supply, depending on the application.

Higher switching capacities (up to 250 V AC / 8 A) are possible in connection with the DUO relay module.

Performance Features

- Operation on BUS-2:
  - Operation as DUO I/O module
  - Operation as 5-input module (compatibility mode)
- Operation on BUS-1:
  - Operation as detector group connection module, switching module or universal connection module, as desired
- 4 detector group inputs with clearing function
- Optional end-of-line resistors selectable from 4k to 14k
- 4 LEDs as detector group status display or with freely programmable function (depending on the operating mode)
- 2 semiconductor outputs, open collector, LOW active
- The two outputs are activated in parallel to LEDs 1 and 2
- Freely programmable In operation as DUO I/O module

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	5 mA, 0.6 mA in addition per detector group, 1.3 mA in addition per LED
Detector zone input	with clear function, monitoring range 12k1 ±20%
Semiconductor output	max. 30 V DC, 50 mA, open collector, LOW active
Type of protection EN 60529	IP40
Environmental class	II
Operating temperature range	-5 °C to + 45 °C
Storage temperature range	-25 °C to + 70 °C
Dimensions (L x W x D)	85 x 109 x 30 mm
Colour	traffic white, similar to RAL 9016

010131 DUO relay module 230 V AC/8 A, surface mount

NEW

VdS **Approval** **vdS applied**

The DUO relay module can be used for extension of a DUO I/O Module BUS-2 /BUS-1 s. m.

The two relays can be activated via the outputs of the DUO I/O module or, alternatively, via any other control voltage with active low potential. For tamper detection a lid switch is intergrated.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	<20 mA per actuated relay coil
Switching contacts	2 switching contacts, potential free
Max. switching capacity	250 V AC/8 A / 30 V DC/5 A
Minimum switching capacity	5 V DC/10 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-10 °C to + 55 °C
Storage temperature range	-25 °C to + 30 °C
Dimensions (L x W x D)	80 x 109 x 1 mm
Colour	traffic white, similar to RAL 9016

Performance Features

- Both relays are activated via the DUO I/O module or an independent control voltage active low
- 2 relay outputs each having a potential-free switchover contact
- Wide range of switching capacities 5 V DC / 10 mA to 250 V AC / 8 A
- Tamper detection switch

010120.17 DUO I/O module BUS-2/BUS-1, flush-mount

VdS **Approval** **G109010 (IDT), Class C**

The DUO I/O module has the function of detector group modules and control modules. With the universal BUS interface the module can be operated at every BUS-2 or BUS-1 - compatible panel.

The 4 detector group inputs with clearing function allow detectors with conventional connection technology to be integrated to the BUS system (e.g. contacts and passive glass breakage sensors).

In addition, the module has 2 semiconductor outputs for any switching and control functions (max. 30 V DC / 50 mA per output). The operating voltage used for the external consumers can be the voltage from the module or from an external power supply, depending on the application.

Higher switching capacities (up to 250 V AC / 8 A) are possible in connection with the DUO relay module (Item. no. 010121.17).

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	5 mA, 0.6 mA in addition per detector group, 1.3 mA in addition per LED
Detector zone input	with clear function, monitoring range 12k1 ±20%
Semiconductor output	max. 30 V DC, 50 mA, open collector, LOW active
Type of protection EN 60529	IP40
Environmental class	II
Operating temperature range	-5 °C bis + 45 °C
Storage temperature range	-25 °C bis + 70 °C
Dimensions (ØxD)	Module: 58 x 26 mm
Dimensions (L x W x D)	Frame: 70 x 70 x 1 mm
Colour of front plate	traffic white, similar to RAL 9016

Corresponding screw driver.
1 module cover frame.
4-hole-foil.

Performance Features

- Operation on BUS-2:
  - Operation as DUO I/O module
  - Operation as 5-input module (compatibility mode)
- Operation on BUS-1:
  - Operation as detector group connection module, switching module or universal connection module, as desired
- 4 detector group inputs with clearing function
- Optional end-of-line resistors selectable from 4k to 14k
- 4 LEDs as detector group status display or with freely programmable function (depending on the operating mode). Externally visible or with individual cover as desired.
- 2 semiconductor outputs, open collector, LOW active
- The two outputs are activated in parallel to LEDs 1 and 2
- Freely programmable In operation as DUO I/O module
- Easy mounting in flush-mounted installation box or hollow-wall box d=60 mm (DIN, Austria and Switzerland)
- Combined operation with DUO relay module for high switching capacities

010121.17 DUO relay module 230 V AC/8 A, flush-mounted

VdS **Approval** **G109011 (IDT) Class C**

The module has the function of switching modules.

The two relays can be activated via the outputs of the DUO I/O module or, alternatively, via any other control voltage (“stand alone”)

In a combination with the DUO I/O module, the two modules are installed in flush-mounted sockets mounted directly adjacent to each other. For this application, a double cover frame is available.

Performance Features

- Both relays are activated via the DUO I/O module or an independent control voltage (stand alone)
- 2 relay outputs each having a potential-free switchover contact
- Wide range of switching capacities 5 V DC / 10 mA to 250 V AC / 8 A
- 2 LEDs for status indication. Externally visible or with individual cover as desired.
- Easy mounting in flush-mounted installation box or hollow-wall box d = 60 mm (DIN, Austria and Switzerland)

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	18.3 mA per actuated relay coil
Switching contacts	2 switching contacts, potential free
Max. switching capacity	250 V AC/8 A / 30 V DC/5 A
Minimum switching capacity	5 V DC/10 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-10 °C to + 55 °C
Storage temperature range	-25 °C to + 70 °C
Dimensions (ØxD)	Module: 58 x 26 mm
Dimensions (L x W x D)	Mounting frame: 70 x 70 x 1 mm
Colour	Cover frame, traffic-white, similar RAL 9016

1 module cover frame.
4-hole-foil.

Fire detector base

062090 **Smoke Detector Base BUS-2/BUS-1**

Performance Features

- Connection to intrusion detection control panels via BUS-2 and BUS-1 coupling
- High immunity to deceptive alarms through highly advanced sensor technology and microprocessor in each fire detector
- Automatic self-monitoring of the fire detectors for function and state
- Smoke detector base constructed easy-to-install and suitable for practice
- Optimised warehousing for installer since there is only one device for both bus systems
- Variable use of detector product line
- Tamper monitoring in case of unauthorised detector removal
- Integrated detector lock
- Elegant design, for installation to a wide range of ceiling constructions and ceiling components
- Lateral cable entry or through base plate possible
- Simple set-up using by means of WINFEM Advanced programming software

Approval **VdS approval as technical detector (detector base + detector)**
G109020 (062092 Fixed temperature detector IQ8Quad)
G109021 (062093 Rate-of-rise heat detector IQ8Quad)
G109022 (062094 Optical smoke detector IQ8Quad)
G109023 (062095 O2T multi-sensor IQ8Quad)
G109024 (062096 OTG multi-sensor (CO) IQ8Quad)

The fire detector base allows the fire detection in connection with an intrusion panel suitable for connecting devices via BUS-1 or BUS-2.

Such a system constellation is particularly suitable for premises in which building regulations do not require a fire detection system, but fire detection seems a good idea, in order to protect persons or property values. Especially in the private sector, for freelancers or smaller business firms.

The combination of base and fire detector makes it possible to individually select and use a fire detector in accordance with the premises-specific properties of the fire risk.

The high-quality fire detectors of the IQ8Quad series meet the latest technical requirements of modern early fire detection. Each detector is equipped with a microprocessor for intelligent signal and measured value processing. This allows each fire detector to adjust itself automatically to any changing environmental conditions, such as soiling or ageing, without changing the sensitivity of detection. A large number of alarm signalling options previously only possible by using a fire detection control panel can now be incorporated in the programming and alarm signalling functions of the intrusion detection control panel.

The start-up and programming of the system is done conveniently via a PC/laptop using the parameterisation software WINFEM Advanced.

Software requirements:

MB12	from V15.00 1)
561-MB100* / HB24 / HB48* / MB24 / MB48 (1 and 2-RAM Version)	from V07.00 1)
561-MB256 plus	from V02.06 1)
561-MB100* / HB24 / HB48* / MB24 / MB48 (2-RAM Version)	from V10.xx 2)

*Item no. of MB100 and HB48 with index .10

1) At the BUS-1, the smoke detector base BUS-2/BUS-1 is compatible with the detector group module and at the BUS-2 compatible with the 5-input module.

2) The type of module (smoke detector base) will be automatically detected when programming.

Please order a suitable detector head for the detector base:

Item no.	Designation
062092	Fixed temperature detector IQ8Quad
062093	Rate-of-rise heat detector IQ8Quad
062094	Optical smoke detector IQ8Quad
062095	O2T multi-sensor detector IQ8Quad
062096	OTG multi-sensor detector IQ8Quad

(see chapter detectors)

Detector testing devices are available on request with the fire departement in Neuss.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption at rated voltage	max. 4 mA
Operating temperature range	-10 °C to +70 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Type of protection EN 60529	IP42 (with fire alarm detector)
Dimensions (Ø x H)	117 x 25 mm (117 x 62 mm with fire alarm detector)
Colour	white (similar to RAL 9010)

A fire detection system according to VDE 0833 part 2, DIN 14675 or EN 54 doesn`t result by the connection of the smoke detector base.

010123.17 2-module cover frame for DUO-IO/relay module

2-module cover frame for DUO-IO/relay module for use with two modules mounted next to each other.

Technical Data

Dimensions (L x W x D)	151 x 80 x 5 mm
Colour	traffic-white, similar to RAL 9016

2 pieces 2-module cover frames.

010124.17 Decorative foil for DUO module

Replacement decorative foil set for DUO-IO/relay module.

Technical Data

Dimensions (L x W x D)	80 x 80 x 5 mm
Colour	traffic-white, similar to RAL 9016)

Four 4-hole foils, one 2-hole foil.

013130.17 5-input module BUS-2

Performance Features

- 5 differential detector groups can be connected
- 5 red LEDs for detector group indication
- Integrated cover contact
- Buzzer

VdS **Approval** **G199087 (IDT), Class C; VSÖ W 031210/25 E**

The 5-input module is a BUS-2 user which 5 differential detector groups with 12.1 kOhm end-of line resistor can be connected to. For each input, a clear function can be selected for autosaving sensors.

The input module also contains 5 red LEDs for detector group indication, an integrated cover contact and a buzzer which can be activated either statically or in an interval, as desired.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
No load current, all inputs open	6 mA
No load current, all inputs closed	8.5 mA
Maximum current, LEDs on, buzzer active	22.5 mA
Maximum current, clear all inputs	47 mA
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	traffic-white, similar to RAL 9016

013131.17 5-output module BUS-2

Performance Features

- 5 semiconductor outputs
- Integrated cover contact
- Buzzer

VdS **Approval** **G199088 (IDT), Class C; VSÖ W 031210/26 E**

The 5-output module is a BUS-2 user containing 5 semiconductor outputs of 12 V DC / 50 mA, whose functions can be defined via the connected control panel.

The 5-output module also contains an integrated cover contact and a buzzer which can be activated either statically or in an interval, as desired.

Technical Data

Operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
No load current at U_Nenn, all outputs inactive	3 mA
Current consumption at Unenn, All outputs active, buzzer on, no consumer	24 mA
Current consumption at Unenn, All outputs active and short-circuited	350 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	traffic-white, similar to RAL 9016

013133 **Mini module BUS-2**

The BUS-2 mini module allows a detector with conventional connection technology to be integrated in a BUS-2 system. All required messages (alarm, fault, tamper) can be transmitted to the control panel via the three logic inputs.

Operated with an MB-Secure there are 3 programmable outputs availeble which can be programmed with the required output signals clear, arm/disarm or indication control signals.

The uncomplicated operation mode on an MB-Secure with 3 inputs and outputs each enable the use of the mini module BUS-2 evan for manifold control and monitoring tasks, e. g. monitoring of cooling devices etc.

Operated with MB12/24/48/100 the outputs can be adjusted with the signals arm/disarm, walk test and they are freely programmable to adjust to the time response of the detector using an impuls model.

The mini module is to be mounted in the housing of the detector.

Technical Data

Operating voltage	12 V DC (from BUS-2)
Operating voltage range	10 V to 15 V DC
Current consumption BUS-2:	
No-load current:	
inputs connected to 0 V, outputs not driven:	500 µA
No-load current:	
inputs open, outputs not driven:	1 mA
Maximum current:	
inputs open, outputs driven and short-circuited:	37 mA
Connections for BUS-2	4-pole terminal
Connections for Detector	potted 6-wire flat cable length approx. 140 mm
Max. output source current	10 mA
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without cable (W x H x D)	40 x 18 x 13 mm

Can be used in the current panels MB-Secure, MB12, HB/MB24, HB/MB48 and MB100.

041220 2-Relay 2-Input Module BUS-2, surface mount

NEW

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

The 2-Relay 2-Input Module BUS-2 is intended for extension of a MB-Secure- or MB12/24/48/100/256 plus series intruder panel with control and power supply over BUS-2.

When operated at the MB-Secure panel two relays and two free programmable detector group inputs are available.

Also there is a compatibility mode provided for operation at MB12/24/48/100/256 panels as 5-output-module BUS-2. In this case the first two outputs control the relays, the inputs are not supported in compatibility mode.

Performance Features

- Operation at BUS-2
- 2 relays each with a potential-free changeover contact
- Wide switching capacity range (5 V DC/10 mA to 250 V AC/8 A)
- 2 detector group inputs free programmable (only MB-Secure)
- detection range 4k - 14k and 20% / 30% / 40%
- Cover tamper and pry-off-tamper detection
- Firmware update over BUS-2 supported
- For MB12/24/48/100/256 plus this modul can be used on BUS-2 in a compatibility mode as a 5 Output Module (only relays)

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	<4mA (Detector groups open)
Additional current consumption	0,4 mA mA in addition per detector group terminatd with 12k1
Detector zone inputs	3,3 V DC, stabilized, short-circuit protected; monitoring range 12k1 ±40%
Current consumption relay	20 mA at 12 V DC
Switching contact	2x Changeover contact, potential free
Switching current	max. 8 A / 250 V AC, 5 A / 30 V DC; min. 10 mA DC
Maximum switching capacity	max. 2000 VA / 150 W
Switching voltage	min. 5 V DC
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	traffic white (similar to RAL 9016)

013128.17 BUS-2 isolation module

Approval **G106006 (IDT), Class C; VSÖ W 070427/73 E**

The BUS-2 isolation modules can be used to set up, in connection with the BUS-2 loop module (item no. 013220.07.10), a BUS-2 loop and/or stitch system, which is distinguished by a particularly high operating reliability.

Use in the loop:

When an error occurs in the BUS-2 loop, only the defective portion is disconnected, all other users remain fully functional.

Use in the stitch:

If isolation modules are used in a BUS-2 stitch, the BUS remains fully functional up to the isolation module closest to the fault location.

A maximum of 8 isolation modules may be used per loop and stitch.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at U_b	<3 mA
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	traffic-white, similar to RAL 9016

A BUS-2 loop topology can be set up using the current control panels HB/MB48 and MB100. Applicable in conjuncion with BUS-2 ring module 013220.07.10 only.

Universal connecting module

The modules have been developed specifically for the adaptation of sensor and detectors in conventional connection technology to the BUS-1 system.

An additional option is to activate an signalling device via a semiconductor output, i.e., an additional parallel display or an alarm device can be activated.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Quiescent current	2 mA
Semiconductor output	50 mA
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C

010111 BUS-1 Universal connection module, built-in version

Technical Data

Current consumption	max. 15 mA
Dimensions (W x H x D)	55 x 48 x 16 mm

010112 BUS-1 Universal connection module, flush-mounted version

VdS **Approval** **G197059 (IDT), Class C; VSÖ W 070427/13 E**

Can be installed in a flush-mounted installation box or a flush-mounted hollow-wall box (Ø = 55 mm).

Technical Data

Current consumption	max. 9 mA
Dimensions (WxH)	80 x 80 mm
Colour	pure-white, similar to RAL 9010

Switching modules

The switching modules can be used for individual switching tasks. When a switching module is to be activated is defined in the system programming of the control panel. Two models of different switching powers are available. The integrated relays are equipped with change-over contacts.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Quiescent current	0.5 mA
Parallel indicator	max. 20 mA, external
Environmental class as per VdS	II
Type of protection EN 60529	IP40
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 109 x 30 mm

041150.17 **BUS-1 switching module, 24 V DC / 1 A**

VdS **Approval** **G191085 (IDT), Class C; VSÖ W 070427/45 E**

Technical Data

Current consumption	21 mA, with Relay
Maximum switching capacity	24 V / 1 A (Relay)
Colour	traffic-white, similar to RAL 9016

Phase-out date 30.06.2014, replacement Item no. 041220.

041151.17 **BUS-1 switching module, 250 V DC / 5 A**

VdS **Approval** **G191086 (IDT), Class C**

Technical Data

Current consumption	40 mA, with Relay
Maximum switching capacity	230 V / 5 A (Relay)
Colour	traffic-white, similar to RAL 9016

Phase-out date 30.06.2014, replacement Item no. 041220.

Detector group module

010116.17 **BUS-1 distributor module**

VdS **Approval** **G194038 (IDT), Class C; VSÖ W 070427/12 E**

The distributor module allows several BUS-1 lines to be connected star-shaped to one distributor point. One BUS-1 input and 4 outputs are available for this. As an additional option, a differential detector group (end-of-line resistor 12.1 kOhm) with LED display has been integrated in the distributor module.

The housing is monitored by a cover contact.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Quiescent current	0.9 mA
Detector zone active	15 mA
Detector group end-of-line resistor	12k1 ±1%
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	traffic-white, similar to RAL 9016

Door module

022310.17 **BUS-1 door module 1 for conv. block lock connection**

VdS **Approval** **G194034 (IDT), Class C**

This module allows to set up all types of monitoring and enable of doors.

For the enable, block locks (conventional connection), safety operating units or door code devices or operating device having the same functions can be connected.

The connection and actuation for a blocking element, load current door strike, no-load current door strike or impulse controlled door strike is also integrated.

Also included in this overall concept are inputs for lock release, bolt switching contact, opening contact, glass breakage sensor and an additional tamper input. Each connection can be operated autonomously.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Quiescent current	7 mA
Magnet activated	150 mA
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	118 x 118 x 30 mm
Colour	traffic-white, similar to RAL 9016

Phase-out date 30.06.2014, replacement Item no. 022325.

Accessories

010138 BUS-1 tester

The BUS-1 tester allows all addresses to be tested for their transmission states and levels from any location on the BUS-1 branch.

The evaluated data are displayed optically. Measuring points outside the housing are available for measurement with an oscilloscope.

Flush-mounted housing program

The flush-mounted housing program also allows conneting modules of housing dimensions of W 85 x H 109 x D 30 mm to be flush-mounted.

050304.17 Flush-mounted basic housing cover, without LED opening

For 041150.17 and 041151.17, without opening for LED.
For 010116.17, one opening for LED.
For 010110.17, two openings for LEDs.

Technical Data

Dimensions (W x H)	105 x 129 mm
Colour	traffic-white, similar to RAL 9016

The cover is marked for drilling 1 or 2 openings for LEDS with a diameter of 3,1 mm on site.

050302.17 Flush-mounted housing

For housing covers 050304.17, 050305.17 and 050306.17.

Technical Data

Dimensions (W x H x D)	92 x 116 x 35 mm
Colour	traffic-white, similar to RAL 9016

Notizen

Switching devices

- IDENT-KEY evaluations
- Locking elements
- Line of locks
- Cylinder program
- Key switch
- Security operating units

IK3

Performance Features

- Arming/disarming of an intrusion detection system
- Access control functions
- Operation via data carrier and/or pin code
- Unambiguous identification and recording
- Contactless and thus wear-resistant data, information and energy transmission
- Maximum safety through alternating code method, encrypted transmission (according to the new VdS and BSI guidelines) and evaluation exclusively in the protected area
- Individual pin for each data carrier / user
- Management of access control functions, such as the allocation of user entitlements in time zones
- Alarm in case of threat through hold-up code
- Programmable control functions can be loaded via keyboard
- Replaceable housing face plates (plug-in)
- Labelling with symbols (language neutral)
- Time-limited background lighting of the keypad
- Largely compatible with IDENT-KEY 2 IK2 system
- For use with mifare or LEGIC readers in “Accentic” design
- For use with mifare or IK3 Fingerkey readers
- For use with Classic readers equipped with RS-485
- For use with Insertic readers equipped with RS-485

Switching device with encrypted data transmission

IDENT-KEY IK3 works with an alternating code system. For detection and checking the entitlement, the operating unit will first read the serial number of a data carrier and pass it on to the evaluating unit (EU) for inspection. There the number is checked as to whether the data carrier is registered in the control centre and is entitled. This is followed by a double exchange of an alternating code between EU and transponder.

- A transponder cannot be copied as only the serial number can be read in the first step. Access to the alternating code area is only possible after a successful login by password.
- No preprocessing of the data in the reader. Any processing is done in the secured zone of the evaluating unit.
- An alternating code sequence will not take place until the corresponding transponder has been registered in the control centre and is entitled.
- Tap-proof through encrypted transmission and transmission in several data packets.

Alternating code sequence (schematic)

023312.17 IK3 evaluating unit for BUS-2

VdS **Approval** **G104028 (IDT), class C; Z105008 (AC), class C; VSÖ W 070427/28 E**

The IK3 evaluating unit for BUS-2 allows a combination between mechanical locking technology and electronic data and information transmission.

The IDENT-KEY system allows an allocation to time zones and recording of the locking times and key numbers. The operating unit is not a direct switching device, but it rather performs the functions of a reading unit. A preliminary decision about arming/disarming is made in the evaluating unit, which passes this decision on to the control centre. In the disarmed state, a door locked by a door strike can be released via the reader and/or a key (access control function).

When using IDENT-KEY as the arming/disarming device, a suitable locking device must be used (e.g. electromechanical locking element), which prevents accidental access to an armed area. The activation is done by the control centre via the evaluating unit.

To monitor the door, a bolt switching contact, an opening contact and a passive glass breakage sensor can be connected directly to the EU and do not have to be wired back individually to the intrusion detection system (low mounting effort).

Additional “Wireless access control system” with electronic armatures DLF online and/or Digital locking zylinders DLC online as readers. The system communicates with the EU via Trafficpoint RS-485. One EU can be equipped with up to 8 “radio doors” with access control function incl. individual authorizations.

The programming of the application-specific data (e.g. key numbers, time-dependent entitlements, etc.) can be done directly via the intrusion detection control panel (LCD operating unit, software module WINFEM, IQ MultiAccess or IQ SystemControl). WINFEM User (MB256plus) or IQ SystemControl (MB24/48/100.10) allows end customers to make changes to a limited extent and to allocate access rights.

Performance Features

- Core saving 3-wire-BUS-technique
- Switching devices in the IK3 mode:
  - Up to 4 readers can be connected via the RS-485 interface, types mixed as desired
  - Additional up to 8 Trafficpoints RS-485 can be connected for a wireless AC-system
- Switching devices in the IK2 compatibility mode:
  - 1 IK2-operating unit of any type
  - or 1 reader via the RS-485 interface
- RS-485 reader interface having a range of up to 1,200 m
- Alternating code method according to VdS 2119
- Connection possibilities:
  - Blocking element 1 and/or BE 3 (several) and/or BE SLIM-LOCK (1x). The bolt end positions are monitored with all types.
  - No-load- / load current or impulse controlled door strike connectable with monitoring- and armature contact (AC function)
  - Opening contact
  - Bolt switching contact
  - Passive glass breakage sensor
  - Contact for presence control
  - Push button for door release
- Hold-up alarm
- Up to 100 control functions (macros) can be defined
- Person separating device can be implemented via person interlock or turnstile
- Multiple person AC of up to 9 persons separately possible for indoor and outdoor (MB24/48/100.10)
- Different AC criteria for indoor and outdoor, also as a function of time (MB24/48/100.10)
- Control of AC release by IQ MultiAccess or IQ SystemControl possible (MB24/48/100.10)
- Firmware update via BUS-2 (MB24/48/100.10) or directly

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Output voltage	12 V DC, short circuit resilient, current limited to 200 mA
Quiescent current	< 15 mA (maximum value)
Current consumption	typ. 25 mA (EU + all inputs + IK3 reader)
Relay contact rating	max. 2 A, 30 V AC/DC, 30 VA
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Storage temperature range	-5 °C to +55 °C
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	traffic white, similar to RAL 9016

Planning example

023350.17 Door controller module for MB

Approval G110049 (IDT), class C; Z110004 (AC), class C

Door controller module for connection of “Accentic” oder “Classic” readers to intruder alarm contol panels with BUS-2 technique.

The door controller module enables access control function of a door within a secured area.

Additional “Wireless access control system” with Electronic armatures DLF online and/or Digital locking zylinders DLC online as readers. The system communicates with the DCM via Trafficpoint RS-485 (see below). One DCM can be equipped with up to 8 “radio doors” with access control function incl. individual authorizations.

Operationg of HB/MB panel series via the BUS-2 system.

AC functions via:

- Transponder
- PIN
- PIN and/or Transponder

To each individual user individual time zones can be allocated via the intruder alarm control panel.

An individual PIN can be allocated to each transponder.

Performance Features

- Core saving 3-wire-BUS-technique
- Up to 2 readers can be connected via the RS-485 interface, types mixed as desired.
- Additional up to 8 Trafficpoints RS-485 can be connected for a wireless AC-system
- RS-485 reader interface having a range of up to 1,200 m
- Alternating code method according to VdS 2119
- Connection possibilities:
  - No-load- or load current door strike with monitoring contact
  - Opening contact
  - Passive glass breakage sensor
  - Bolt switching contact
  - Push button for door release
- Hold-up alarm
- Up to 100 control functions (macros) can be defined
- Application-related data (e.g. key numbers, authorization (date/time) etc.) are programmed directly via the intrusion control panel with WINFEM Advanced.
- Firmware update via BUS-2

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Output voltage	12 V DC, short circuit resilient, current limited to 200 mA
Quiescent current	< 15 mA (maximum value)
Current consumption	typ. 25 mA (module + all inputs + IK3 reader)
Relay contact rating	max. 2 A, 30 V AC/DC, 30 VA
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Storage temperature range	-5 °C to +55 °C
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	traffic white, similar to RAL 9016

No blocking element connectable.

Planning example

023310.17 Conventional IK3 evaluating unit

VdS **Approval** **G106073, class C; VSÖ W 070427/29 E**

The conventional IK3-evaluating unit can be used for control panels equipped with block lock connection. Up to four readers can be connected to the evaluating unit via the RS-485 interface. Alternatively, 1 IK2-operating unit of any type or 1 IK2-block lock can be used.

Another option is to connect the locking elements 1 and/or 3 (if desired, several of them) and/or 1 locking element SLIM-LOCK.

The IDENT-KEY system allows an allocation to time zones and recording of the locking times and key numbers. In the disarmed state, a door locked by a door strike can be released via the operating unit and/or a key (access control function).

The programming of the application-specific data (e.g. key numbers, time-dependent entitlements, etc.) can be done directly at the evaluating unit via WINFEM Advanced).

Both arming and access control functions can be carried out by pin, card or the pin/card combination.

Performance Features

- Up to 4 readers can be connected via the RS-485 interface, types mixed as desired, or 1 IK2-operating unit of any type
- RS-485 interface having a range of up to 1,200 m
- Alternating code method according to VdS 2119
- Connection possibilities:
  - Blocking element 1 and/or BE 3 (several) and/or BE SLIM-LOCK (1x). The bolt end positions are monitored with all types.
  - No-load- or load current door strike connectable with monitoring- and armature contact (AC function)
  - Opening contact
  - Bolt switching contact
  - Push button for door release
  - Push button for forced unlocking (emergency open)
- Hold-up alarm
- Up to 16 control functions can be defined
- Bank personal protection system possible via programming of the EU (2-door ACS with joint authorisation)
- Firmware update via flash memory
- Event memory for up to 1,000 entries
- Manages up to 512 users via PINs

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Output voltage	12 V DC, short-circuit proof, current limited to 200 mA
Quiescent current	< 15 mA (maximum value)
Current consumption	typ. 25 mA (EU + IK3 reader)
Relay contact rating	max. 2 A, 30 V AC/DC, 30 VA
Relay contact rating, Fault Relay	max. 0.5 A, 30 V AC/DC, 10 VA
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Operating temperature range	-5 °C to +55 °C
Dimensions (W x H x D)	196 x 142 x 32 mm
Colour	traffic white, similar to RAL 9016

The conventional IK3 evaluation unit combined with suitable operating units allows the functions of a door code control unit according to VdS to be set up.

Planning example

019038.10 Blocking element SLIM-LOCK

Approval **G 104039 (IDT), class C**

SLIM-LOCK prevents access to an armed zone of an intrusion detection system, thus preventing false alarms.

Technical Data

Operating voltage range	4 V to 6 V DC (provided by control unit)
Operating voltage	max. 9 V DC (for test purpose only)
Actuation time	max. 2 sec.
Quiescent current	0 mA
Current consumption	on actuation < 200 mA (average value for ca. 0.5 sec)
Bolt locking time	< 250 ms
Bolt path	> 12 mm
Bolt shearing force	> 1 kN sideways (with max. 4 mm clearance between door frame and door leaf)
Installation position	arbitrary
Cable connection	Length 6 m, Ø < 2.5 mm
Type of protection EN 60529	IP65 in fitted condition
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (Ø x L)	Housing: 14 x 50.2 mm
Dimensions (W x H)	Flange: 16 x 41 mm

The IK3 evaluating unit 023312.17, conventional IK3 evaluating unit 023310.17 and the conventional control unit 019039.17 can be used as control unit.
1 SLIM-LOCK can be connected to all control units.

Counter part with flange, item no 019022.

Performance Features

- The smallest and most powerful product on the market.
- Time-saving and simple installation (standard wood drill)
- Fits almost all doors, windows and cabinets. There are no country-dependent restrictions because of different door sizes
- Extremely high mechanical stability through metal housing
- 2-wire connection
- Activation via a microprocessor-controlled control unit with monitoring of the bolt position
- Automatic correction when bolt is mechanically obstructed during unbolting or bolting of the lock.
- No closed-circuit current

019039.17 Conventional control unit SLIM-LOCK, surface-mounted

Approval **G105132 (IDT), class C; VSÖ W 070427/35 E**

This control unit makes it possible to use a SLIM-LOCK blocking element in conventional connection technology. The control unit is activated from an intrusion detection control panel in analogue modus. Suitable for SLIM-LOCK.

Technical Data

Rated operating voltage U_b	12 V to 24 V DC
Operating voltage range	8 V to 30 V DC
Continuous current drain	
- outputs programmed in pulse mode	< 1 mA
- outputs programmed in continuous duty	< 2 mA
- during bolt operation	typ. 200 mA for approx. 500 ms
Current-carrying capacity output	max. 20 mA per output
Control signals	static or puls > 200 ms
Input voltage range	up to 30 V DC
Programming options	
- Inputs	LOW-active, HIGH-active or toggle operation
- Outputs	LOW-aktiv, HIGH-aktiv, permanent actuation or impulse 1 sec
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	traffic-white, similar to RAL 9016

Performance Features

- Extremly large operating voltage range
- Activation by static, dynamic, HIGH or LOW active signals
- Activation also possible by change-over switch or push-button (toggle operation)
- Monitored bolt position
- Outputs for bolt end positions “open”, “closed” and “fault”. HIGH or LOW active, static or impulse.

019030.20 Electro-mechanical blocking element 1 plus

Approval **G195097 (IDT), class C; VSÖ W 070427/72 E**

The electro-mechanical locking element prevents access to the armed zone of an intrusion detection system.

The use of a locking element allows an intrusion detection system to be armed by means of several arming device at any desired location.

Access to the secured zone can be prevented or allowed at one or several places.

Performance Features

- Simple mounting in door frame with counter unit in door leaf
- Activation dynamically or statically
- Electric and mechanical emergency locking possible
- Semiconductor outputs for bolt end positions available

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption in no-load	4 mA
Mean current consumption	approx. 130 mA, max. 0.6 sec.
Output current	carrying capacity (high active): max. 20 mA
Installation position	any
Cable length	4 m
Fastener bolt	ø 8.0 mm
Bolt path	min. 10 mm
Bolt shearing force	> 1 kN sideways (with max. 4 mm clearance between door frame and door leaf)
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	18 x 140 x 32 mm
Face plate	(replaceable) Standard dimension 20 x 2 x 188 mm

Counter unit with flange 019022; threaded sleeve 019020.

019033 Electro-mechanical blocking element SE 1 plus / magnetic contact

Approval **G195097 (IDT), class C;**
G103521 (IDT), class B for magnetic contacts;
VSÖ W 070427/72 E

Same as article 019030.20, but with integrated magnetic contact for opening monitoring without additional contact.

Counter part with flange, item no. 019022 and screw plug bush, item no 019020.

Dimensionaldrawing,
Dimensions in mm

019032 Electro-mechanical blocking element 3

VdS **Approval** **G104003 (IDT), class C; G104503 (IDT), class B for magnetic contacts; Z104003 (AC), class C; VSÖ W 070427/69 E**

The basic functions of the motorised locking element 3 are the same as those of the lockin element 1 plus with magnetic contact (019033). Since it uses a steel bolt, it is moreover approved for use as access control final control element.

Performance Features

- Opening monitoring without additional magnetic contact
- Monitoring function to ensure that the lock can only be bolted with the door properly closed
- Automatic correction when mechanically obstructed
- Dynamic or static activation
- Electrical and/or mechanical emergency locking
- Increased mechanical strength - no break-off position at the locking bolt
- VdS approval as access control final control element

Technical Data

Operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at U_b=12 V DC	typ 6.0 mA
Mean current consumption	typ 0.2 (ca. 1 Sec)
Output current	carrying capacity (high active): max 50 mA
Installation position	any
Cable length	4 m
Fastener bolt	ø 8.0 mm
Bolt path	20 mm
Bolt shearing force (lateral)	3 kN
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-40 °C to +85 °C
Dimensions (W x H x D)	18 x 140 x 32 mm
Face plate	Standard dimension 20 x 2 x 190 mm

Dimensional drawing, Dimensions in mm

Accessories for locking elements 1 and 3

019030.10 Replacement locking bolt for locking element 1

2 pieces

019022 Counter unit with flange

Technical Data	
Inner diameter	12 mm

5 pieces

019023 Counter unit with flange

Technical Data	
Inner diameter	15 mm

5 pieces

019024 Surface mounting kit

For use with door leaf placed higher (10 mm).

Suitable silicone glue RTV 032265.

4 spacers, 1 mm thick, 2 cover plates (when mounted on glass).

019025 Surface mounting kit

Door leaf and frame flat.

Suitable silicone glue RTV 032265.

4 spacers, 1 mm thick, 2 cover plates (when mounted on glass).

019026 Angular face plate

Not suitable for locking elements with magnetic contact.

2 pieces

019036 Special face plate

Technical Data	
Width	24 mm

Not suitable for locking elements with magnetic contact.

2 pieces

019028 Mounting aid

For functional control of the blocking element and aid for exact positioning of the bolt counter unit.

Overview block lock technique

the overview shows the different combination possibilities of control panel, block lock and connection component.

021150 Dead bolt lock with monitoring function
022099 Profile block lock without drilling protection
022100 Profile block lock with drilling protection
022102 Profile block lock with electronic drilling monitoring

Dimensiion drawing
specifications in mm

for item no.:
021150
022099
022100
022102

for all item numbers

For all Item no.

Dead bolt locks with monitoring function

021150 **Dead bolt lock for half cylinders**

VdS **Approval** **G189702 (IDT), class A**

The dead bolt lock with monitoring function consisting of the metal-encapsulated pocket with face plate and connecting cable includes all mechanical and electronic functional modules.

The dead bolt lock with monitoring function contains a monitoring device against drilling which can be linked to a tamper alarm group.

Slots for DIN half cylinders according to DIN standard 50018 or, in the case of VdS systems, according to guidelines form 2183.

Use of safety rosettes via integrated screw through holes in the housing.

Replacement possible with special face plate sizes 16 mm or 25 mm (standard 20 mm).

Variable bolt length by using bolt length extensions.

Technical Data

Switching current (R-load)	min. 10 mA, max. 100 mA
Electric life span	at 1 mA / 1.5 V DC: min. 1 Mio. switching cycles
Backset	25 mm
Installation position	any
Type of protection EN 60529	IP30, locking cylinder correctly mounted
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Weight	approx. 700 g, without cylinder

Accessories:

022310.17	Door module 1 for conventional block lock
022115	Chrome-coloured safety rosette for standard half cylinder
022117	Chrome-coloured spacers for 022115
022122	Chrome-coloured safety door sign 11 mm
022136	Chrome-coloured internal escutcheon for profiled cylinder
022112	Bolt length extension from 25 to 50 mm
022113	Bolt length extension from 25 to 65 mm
022121	Set for face plate special dimensions 16 and 25 mm

Standard block locks

The conventional block lock system consists, as a functional unit, of the block lock and the distributor.

The evaluating module integrated in the block lock is connected to the distributor or from there to the control panel in conventional wiring technology.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	6 mA
Additional current consumption	120 mA (block coil)
Resistance of the block coil	100 Ohm
Operating mode	100 % continuous duty
Cable length	5 m
Installation position	any
Type of protection EN 60529	IP30, locking cylinder correctly mounted
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions housing (W x H x D)	16 x 210 x 48 mm (Double-bit block lock), Zn-die-casting
Dimensions housing (W x H x D)	16 x 210 x 48 mm (Double-bit block lock), Zn-die-casting
Face plate	20 x 257 x 3 mm, steel galvanized
Bolt	11 x 40 mm, steel galvaniced, dead bolt throw 15 mm
Backset	25 mm
Locking plate	130 x 25 x 3 mm, steel galvanized
Setting of locking	90° right or 90° left

Accessories:

022115	Chrome-coloured safety rosette
022117	Chrome-coloured spacers for 022115
022115.01	Gold-plated safety rosette
022120	Chrome-coloured core drawback protection rosette 12 mm
022124.99	Chrome-coloured core drawback protection rosette 15 mm
022134	Gold-plated core drawback protection rosette 12 mm
022122	Chrome-coloured safety door sign 11 mm
022123	Chrome-coloured safety door sign 14 mm
022136	Chrome-coloured internal escutcheon for profiled cylinder
022112	Bolt length extension from 25 to 50 mm
022113	Bolt length extension from 25 to 65 mm
022114.01	Extension of special bolt length from 25 mm to 35 mm
022114.02	Extension of special bolt length from 25 mm to 55 mm
022114.03	Extension of special bolt length from 25 mm to 80 mm
022114.04	Extension of special bolt length from 25 mm to 100 mm
022121	Set for face plate special dimensions
022310.17	BUS-1 door module 1 for standard block lock, white, surface-mounted design

022099 Standard block lock

Approval G198718 (IDT), class A

Block lock without mechanical surface protection against drilling, consisting of the metal-encapsulated pocket with face plate and connecting cable, includes all mechanical and electronic functional modules.

The integrated evaluating module as completely encapsulated electronic unit with current-saving microelectronics in surface-mounted technology and customer-specific IC serves for the central management of all control functions.

Includes individual programming of the monitoring criteria and operating modes, for example as main block lock or door lock.

Slots for DIN half cylinders according to DIN standard 50018 or, in the case of VdS systems, according to guidelines form 2183.

022100 Standard block lock including mechanical protection against drilling

Approval G189510 (IDT), class B; VSÖ G 031210/33 E

The description and technical data are identical to those of the article 022099, except that tamper monitoring is included in the form of a mechanical all-around protection against drilling.

022102 Standard block lock including electronic protection against drilling

Approval G194043 (IDT), class C; VSÖ W 070427/58 E

The description and technical data are identical to those of the article 022100, except that additionally an elektronic protection against drilling is included.

022102.62 Standard block lock including electronic protection against drilling

Approval G194044 (IDT), class C

For use in intrusion detection control panel 5008.

The description and technical data are identical to those of the former item no. 160629.

Block lock distributor 050070.17 to fit.

Block lock distributor

050070.17 Standard block lock distributor

VdS **Approval** **G190092 (IDT), class C; VSÖ W 070427/63 E**

Surface-mounted design, compact block lock distributor including 6 mm cable link, integrated pcb with 18-pin connection and built-in buzzer with increased sound volume, for acoustic arming acknowledgement. Built-in cover contact.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption buzzer	20 mA
Type of wiring	conventional
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (H x W x D)	118 x 118 x 30 mm (plastic)
Material	Plastic
Colour	traffic white, similar to RAL 9016

Block lock accessories

022060 Block lock surface mounting kit

Consisting of a block lock and striking plate receptacle of 40 mm thick massive iron for surface mounting to be welded to safe and metal doors, it fits block locks with half cylinders, including special face plate.

Technical Data

Block lock connector	25 mm
Dimensions (W x H x D)	260 x 60 x 40 mm (part size)

Phase-out date 30.06.2015.

022121 Set for face plate special dimensions

16 mm: To be used, for example, behind a door leaf locking rod.

25 mm: To be used, if, for example, a block lock type of the previous generation is to be replaced with a new block lock.

Bolt length extensions

Mounting kit for extending the block lock bolt length. Consists of a suitable bolt extension, 2 micro-encapsulated one-way screws, 3 face plate spacing pieces and the associated one-way screws. Suitable for block lock types and the VdS dead bolt lock with monitoring function.

022112 **Bolt length extension from 25 to 50 mm**

022113 **Bolt length extension from 25 to 65 mm**

022114.01 **Extension of special bolt length from 25 mm to 35 mm**

022114.02 **Extension of special bolt length from 25 mm to 55 mm**

022114.03 **Extension of special bolt length from 25 mm to 80 mm**

Phase-out date 31.12.2014.

022114.04 **Extension of special bolt length from 25 mm to 100 mm**

Phase-out date 31.12.2014.

Core drawback protection rosettes

022115 Safety rosette for half cylinder

Chrome-coloured, including M5 threaded bars.

022117 Spacer

Chrome-coloured, for 022115, 1.5 mm thick.

3 pieces

022138 Internal rosette with profiled cylinder perforation

Chrome-coloured, including M5 threaded bars.

5 mm thick.

022120 Core drawback protection rosette, chrome-coloured

Safety rosette including core drawback protection for half cylinder. Including 12 mm thick external escutcheon for cylinder projection of 9 - 14 mm.

Technical Data

Dimensions outer label (W x H x D)	44 x 70 x 12/15 mm
Dimensions inner label (W x H x D)	44 x 70 x 5 mm

Performance Features

- According to VdS class A

Safety door plate

Performance Features

• According to VdS classes A/B/C

The safety door plate fitted with a protective steel cover and core protection (revolving disk) offers optimum protection for the half cylinder inserted into the block lock.

The rosette attachment provided with a core protection on the inside is mounted on the projecting cylinder portion and fastened using 2 threaded bolts and clamping bolts each.

The rosette attachment including the core protection is secured by the all-around ground and hardened external escutcheon in connection with the internal escutcheon by means of M8 special screws to be screwed down from the inside, thus providing optimised security.

Technical Data

Dimensions outer label (W x H x D)	44 x 260 x 11 or 14 mm
Dimensions inner label (W x H x D)	36 x 260 x 6 mm

All parts made of corrosion-resistant stainless steel.

External and internal escutcheon core protection insert (revolving disk); 2 special screws M8 x 50.

022122 **Chrome-coloured safety door plate**

Including 11 mm thick external escutcheon for cylinder projection of 9 - 14 mm.

022123 **Chrome-coloured safety door plate**

Including 14 mm thick external escutcheon for cylinder projection of 12 -17 mm.

022136 **Chrome-coloured internal escutcheon including profiled cylinder perforation**

For upgrading the safety door plate. It allows profiled cylinders (full cylinders) to be mounted.

Does not meet the VdS guidelines.

VdS

When used in block locks, dead bolt locks with monitoring function or operating units, VdS requests core drawback and cylinder protection. For the possible combinations of cylinder / high-security escutcheon / switching device, please refer to the VdS publication applicable in each case.

028034 VdS half cylinder

VdS **Approval** **M191341**

Technical Data

Key	Bit position: in 45° grid turnable by 360°
Length A	40.5 mm

For use in safety control panels/IDENT-KEY operating units, for example 012520, 022183.

3 keys with safety certificate.

028033 VdS half cylinder, Winkhaus TI602

VdS **Approval** **M104369**

Technical Data

Key	Bit position: in 45° grid turnable by 360°
Length A	32.5 mm

Covers all VdS classes in connection with safety door plates 022122, 022122.01, 022123, 022123.01.
For use with security operating units 012525, 012526, 010125 and key switches SS 90, e. g. 154428, 154443.

3 keys with safety certificate.

Standard

028031 Half cylinder

Simple half cylinder without VdS approval.

Technical Data

Key	Bit position: in 45° grid turnable by 360°
Length A	40.5 mm

For use in lockable keypad units, for example 025105.

3 keys.

028032 Half cylinder

Simple half cylinder without VdS approval.

Technical Data

Key	Bit position: in 45° grid turnable by 360°
Length A	30.5 mm

For use in contact locks of modular operating unit program, for example 12624; block switch, for example 021130, 021131; control panels 50-M5; 100-A5; 100-A8; 561-H8 and emergency key box, for example 048850.

3 keys.

028050 **VdS lock insert**

According to VdS for commercial use, for example for retrofitting housings.

The VdS lock insert is delivered with the Schulte 1k101 locking mechanism.
For alarm control panel, no single locking mechanism may be used.

2 keys.

Key switch SS 90

VdS Approval **G193724 (IDT), class A**

The key switch SS 90 consists of a:

- zinc die-cast housing painted white (similar to RAL 9016)
- electric tear-off and cover monitoring
- core drawback protector for half cylinder integrated in the housing cover,
- optic control lights for alarm and armed/disarmed
- buzzer as acoustic acknowledgement display, either as permanent or momentary contact version, as desired

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	8 V to 18 V DC
Current consumption	Buzzer approx. 5 mA, per LED approx. 20 mA
Display	1 red LED, 1 yellow LED
Signalling device	Buzzer 60 dB (A) 1 m
Switching contact	30 V DC, 500 mA, S1 / S4 (arming/disarming)
Tamper switch	30 V DC, 500 mA, S2 / S3
Type of protection EN 60529	IP54
Environmental class as per VdS	III
Operating temperature range	-25 °C to +70 °C
Storage temperature range	-30 °C to +75 °C
Housing material	Zn-die-casting
Weight	approx. 1250 g
Dimensions housing (W x H x D)	88 x 142 x 54 mm, s.m.
Dimensions cover frame (WxHxD)	124 x 182 x 54 mm, f.m.
Dimensions flush-mount housing (WxHxD)	105 x 155 x 45 mm, f.m.
Colour	white, similar to RAL 9001

When used in block locks, dead bolt locks with monitoring function or operating units, VdS requests core drawback and cylinder protection. For the possible combinations of cylinder / high-security escutcheon / switching device, please refer to the VdS publication applicable in each case.

Cylinder length mm	Distance slat white 1 mm	Distance slat coloured 0,5 mm
28,5 - 29,0	3	1
29,1 - 29,5	3	–
29,6 - 30,0	2	1
30,1 - 30,5	2	–
30,6 - 31,0	1	1
31,1 - 31,5	1	–
31,6 - 32,0	–	1
32,1 - 32,5	–	–

Accessories:

028033 Half cylinder

154428 **Key switch SS 90**

Approval **G193724 (IDT), class A**

VdS approval in connection with protection against drilling 154437 only.

Without half cylinder.

154430 **Key switch SS 90**

Approval **G193724 (IDT), class A**

Equipped with additional second switching contact.

VdS approval in connection with protection against drilling 154437 only.

Without half cylinder.

Accessories

154437 **Protection against drilling**

For upgrading the key-operated switch SS 90 to comply with VdS.

790725 **Safety screws**

10 pieces

797027 **Special Allen key**

With drilled hole, fits to safty screws 790725.

Block switch

For use in the standard and VdS control panel product line. Soldering tags for monitoring resistors available. Designed with tamper switch and 5-sided comprehensive protection against drilling, LED displays for armed/disarmed state and alarm fault.

Changeover/permanent contact keybit position for half cylinder to be used 90° right.

Technical Data

Rated operating voltage	12 V DC, block coil
Operating voltage range	10 V to 15 V DC
Current consumption in no-load	0 mA
Current consumption (max. current, switching mode)	270 mA (arming/disarming)
Class of protection DIN 40050	IP 44
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-40 °C to +70 °C
Dimensions (H x W x D)	70 x 122 x 55 mm
Colour	grey-white, similar to RAL 9002

The length A of the locking cylinder (see diagram) must be 30 mm.
Delivery without half cylinder.

Accessories:

028032 Half cylinder

021130 Surface-mounted block switch with mechanical lock disabling

021131 Flush-mounted block switch with mechanical lock disabling

012520 Flush-mounted outdoor safety operating unit excluding logic

Approval **G196706 (IDT), class A; VSÖ.E:P070427/15E**

The outdoor operating unit consists of a stable cast housing and a front plate with electromechanical monitoring against drilling.

The electromechanical monitoring against drilling prevents any unauthorised access to the integrated electronics. Also available are a mechanical tear-off protection and an electronic cover monitoring device.

The special construction (a special flush-mounted box and a flush-mounted housing) of the outdoor operating unit allows flush mounting in massive and also in hollow walls.

The “ON-OFF” key position is scanned by contactless sensors. In addition, the idle position of the lock catch (centre position) is tamper monitored. The built-in buzzer and the two-colour LED are activated by the connected intrusion detection control panel.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Quiescent current	17 mA
Current consumption (max. current, switching mode)	40 mA
Connecting cable length	6 m
Type of protection EN 60529	IP44, locking cylinder correctly mounted
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-40 °C to +80 °C
Dimensions	installation depth: 70 mm
Dimensions (W x H x D)	front: 86 x 107 x 27 mm
Dimensions (ØxD)	housing: 70 x 70 mm

Owing to the different constructional characteristics of locking cylinders from different manufacturers, the correct locking cylinder must be selected.
The length A should be 40.5 mm.
We recommend using half cylinder 028034.

Accessories

012521 Decorative film for outdoor safety operating unit 012520

5 pieces

Readers
Transponders
Door code system

Readers overview

Overview of Proximity Readers															
Standard Data					RFID Technology						Interface			Periphery	
Type	Housing	Colour	Item.no.	VdS	proX1;IK2	proX2;IK3	mifare	mifare DESFire EV1	LEGIC	LEGIC adv.	CL/D	RS485	IK2	connectable at	Device
Accentic without keypad		white alum. optional white or anthracite	026420		✓	✓					✓	✓		1, 2, 3, 4, 5, 6, 7, 9	ACT
			026422	✓			✓				✓	✓			
			026424						✓	✓	✓	✓			
			026435				✓	✓				✓		5, 6, 9	
			023322.99	✓	✓	✓						✓		6, 7, 9	
Accentic with keypad		white alum. optional white or anthracite	026421		✓	✓					✓	✓		1, 2, 3, 4, 5, 6, 7, 9	1
			026423	✓			✓				✓	✓			
			026425						✓	✓	✓	✓			
			026436				✓	✓				✓		5, 6, 9	
			023320	✓	✓	✓						✓		6, 7, 9	ACS-2plus
Fingerkey reader Accentic		basaltgrey	029340	✓	✓	✓					✓	✓		1, 2, 3, 4, 5, 6, 7, 9	
Classic (small housing)		greywhite	026480		✓						✓			1, 2, 3, 4, 5	2
			026480.10		✓						✓	✓		1, 2, 3, 4, 5, 6, 7, 9	
			026494				✓				✓	✓			
			026492						✓		✓	✓			
Classic with on/off keys (small housing)		greywhite	022194	✓	✓								✓	6, 7, 8	ACS-8
Classic without keypad		greywhite	026380.00		✓									RS-232	
			026390.00		✓						✓			1, 2, 3, 4, 5	
			026390.10		✓						✓	✓		1, 2, 3, 4, 5, 6, 7, 9	3
Classic with keypad		greywhite	026383.00		✓						✓			1, 2, 3, 4, 5	
			026481		✓						✓	✓		1, 2, 3, 4, 5, 6, 7, 9	
			026493				✓				✓	✓			
			026491						✓		✓	✓			
			022195.10	✓	✓								✓	6, 7, 8	Door Modul RS485
Classic extended range		greywhite	026366.10		✓						✓	✓		1, 2, 3, 4, 5, 6, 7, 9	4
Comfort Key IK2		greywhite	022198	✓	✓								✓	6, 7, 8	
IK2-Operating Unit fm version		greywhite	022183	✓	✓								✓	6, 7, 8	ACS-8
Insertic without keypad		light grey	027666		✓	nur UID					✓			2, 3, 4, 5	ACS-8 Com.modul
			027668		✓	nur UID						✓		5, 6, 7, 9	
			027670				✓				✓			2, 3, 4, 5	
			027672				✓					✓		5, 6, 7, 9	5
			027674						✓		✓			2, 3, 4, 5	
			027674.10						✓	✓	✓			2, 3, 4, 5	
			027676						✓			✓		5, 6, 7, 9	
			027676.10						✓	✓		✓		5, 6, 7, 9	IK3 DC BUS-
Insertic with keypad		light grey	027667		✓	nur UID					✓			2, 3, 4, 5	
			027669		✓	nur UID						✓		5, 6, 7, 9	
			027671				✓				✓			2, 3, 4, 5	
			027673				✓					✓		5, 6, 7, 9	6
			027675						✓		✓			2, 3, 4, 5	
			027675.10						✓	✓	✓			2, 3, 4, 5	
			027677						✓			✓		5, 6, 7, 9	
			027677.10						✓	✓		✓		5, 6, 9	
Insertic 50		light grey	027660		✓	nur UID					✓			2, 3, 4, 5	IK3 DC conv.
			027661		✓	nur UID						✓		5, 6, 7, 9	
			027662				✓				✓			2, 3, 4, 5	
			027663				✓					✓		5, 6, 7, 9	
			027664						✓		✓			2, 3, 4, 5	7
			027664.10						✓	✓	✓			2, 3, 4, 5	
			027665						✓			✓		5, 6, 7, 9	
			027665.10						✓	✓		✓		5, 6, 7, 9	
Siedle Vario without keypad		white	023330	✓	✓	✓					✓	✓		1, 2, 3, 4, 5, 6, 7, 9	IK2 DC BUS-
		other colours see catalogue													
Siedle Vario with keypad		white	023340	✓	✓	✓					✓	✓		1, 2, 3, 4, 5, 6, 7, 9	8
		other colours see catalogue													
Reader with scramble keypad plastic housing		red	026445		✓		o.req.		o.req.			✓		5, 6, 7, 9 (for access only)	Door Controller Module for MB BUS-2
Reader with scramble keypad stainless steel hous.		stainless steel	026445.10		✓		o.req.		o.req.			✓		5, 6, 7, 9 (for access only)	9

Please note the corresponding information within our catalogue. This table doesn`t show all properties, functionalities and technical dates in details.

IK3 readers

Note: Please contact our techical hotline if the use of own datacarriers (ID-cards, key fobs, etc.) is intended.

023322.99 IK3 reader without keypad, contactless, white aluminium

Approval **G104029 (IDT), class C; Z105006 (AC), class C; VSÖ W 070427/26 E**

IK3 reader in “Accentic” design.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption stand-by mode	< 11 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Interface	RS-485
Interface range RS-485	up to 1200 m
Reading technology	proX2 / IK3 with alternating code (EM4102 and EM4150 Transponder)
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	5-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- Reads proX1/ IK2- and proX2/ IK3 cards
- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Range adjustment
- Maximum safety through alternating code method as per VdS 2119
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023317	Face plate without keypad, purewhite
023318	Face plate without keypad, anthracite
023319	Face plate without keypad, white aluminium

023320 IK3 reader with keypad, white aluminium

Approval **G104030 (IDT), class C; Z105007 (AC), class C; VSÖ W 070427/27 E**

IK3 reader in “Accentic” design.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption stand-by mode	< 11 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Luminous background	< 4 mA (time-limited for 5 sec. max. 8 mA)
Interface	RS-485
Interface range RS-485	up to 1200 m
Reading technology	proX2 / IK3 with alternating code (EM4102 and EM4150 Transponder)
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	5-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- Reads proX1/ IK2- and proX2/ IK3 cards
- Ergonomic keypad design
- Labelling with symbols (language neutral)
- Time-limited background lighting of the keypad
- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Range adjustment
- Maximum safety through alternating code method as per VdS 2119
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023315	Face plate with keypad, purewhite
023316.99	Face plate with keypad, anthracite
023314	Face plate with keypad, white aluminium

proX2 reader

Note: Please contact our techical hotline if the use of own datacarriers (ID-cards, key fobs, etc.) is intended.

026420.10 proX2 reader “Accentic” without keypad

RS-485- and Clock/data interface.
proX2 reader in elegant ergonomic housing design.
Reads proX1/ IK2- and proX2/ IK3 data carriers (IK3 without alternating code).

Performance Features

- Reads proX1/ IK2- and proX2/ IK3 cards
- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Range adjustment
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption stand-by mode	< 11 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	proX2 / IK3 (EM4102 and EM4150 Transponder, without alternating code)
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023317	Face plate without keypad, purewhite
023318	Face plate without keypad, anthracite
023319	Face plate without keypad, white aluminium

026421.10 proX2 reader “Accentic” with keypad

RS-485- and Clock/data interface.
proX2 reader in elegant ergonomic housing design.
Reads proX1/ IK2- and proX2/ IK3 data carriers (IK3 without alternating code).

Performance Features

- Reads proX1/ IK2- and proX2/ IK3 cards
- Ergonomic keypad design
- Labelling with symbols (language neutral)
- Time-limited background lighting of the keypad
- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Range adjustment
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption stand-by mode	< 11 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Luminous background	< 4 mA (time-limited for 5 sec. max. 8 mA)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	proX2 / IK3 (EM4102 and EM4150 Transponder, without alternating code)
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023315	Face plate with keypad, purewhite
023316.99	Face plate with keypad, anthracite
023314	Face plate with keypad, white aluminium

mifare reader

026422 mifare reader "Accentic" without keypad

VdS **Approval** **G107016 (IDT), class C; Z107003 (AC), class C**

RS-485- and clock/data interface.

Technical Data

Rated operating voltage	12 V to 24 V DC
Operating voltage range	9 V to 30 V DC
Current consumption stand-by mode	< 30 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	mifare according to ISO 14443 A
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023317	Face plate without keypad, purewhite
023318	Face plate without keypad, anthracite
023319	Face plate without keypad, white aluminium

026422.87 mifare reader "Accentic", without keypad, Wiegand interface

NEW

As Item no. 026422 but with Wiegand-Interface.

Technical Data

Rated operating voltage	12 V DC to 24 V DC
Rated operating voltage range	9 V to 30 V
Operating temperature range	-25°C to +55°C
Environmental class as per VdS	III
Type of protection EN 60529	IP 65
Reading technology	mifare according to ISO 14443 A
Housing	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023317	Face plate for readers without keypad, pure white
023318	Face plate for readers without keypad, anthracite
023319	Face plate for readers without keypad, white aluminium

026423 mifare reader “Accentic” with keypad

Approval **G107017 (IDT), class C; Z107004 (AC), class C**

RS-485- and clock/data interface.

Technical Data

Rated operating voltage	12 V to 24 V DC
Operating voltage range	9 V to 30 V DC
Current consumption stand-by mode	< 30 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Luminous background	< 4 mA (time-limited for 5 sec. max. 8 mA)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	mifare according to ISO 14443 A
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- Ergonomic keypad design
- Labelling with symbols (language neutral)
- Time-limited background lighting of the keypad
- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023315	Face plate with keypad, purewhite
023316.99	Face plate with keypad, anthracite
023314	Face plate with keypad, white aluminium

026423.87 mifare reader “Accentic”, with keypad, Wiegand interface

NEW

As Item no. 026423 but with Wiegand-Interface.

Technical Data

Rated operating voltage	12 V DC to 24 V DC
Rated operating voltage range	9 V to 30 V
Operating temperature range	-25°C to +55°C
Environmental class as per VdS	III
Type of protection EN 60529	IP 65
Reading technology	mifare according to ISO 14443 A
Housing	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- Ergonomic keypad design
- Labelling with symbols (language neutral)
- Time-limited background lighting of the keypad
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023315	Face plate for readers with keypad, pure white
023316.99	Face plate for readers with keypad, anthracite
023314	Face plate for readers with keypad, white aluminium

mifare DESFire EV1 reader

Performance Features

- Transponder technology according to BSI for highest security requests (128 Bit AES encryption on the air distance between transponder and reader)
- Encrypted transmission of the UID (feature „Random UID“)
- Possibility to run the reader with 2 keys at the same time, which enables a switch to a new encryption key without any interruption
- Key change per Self-Service station (IQ KeyChanger, part of IQMA), without any further operation.
- On the used mifare DESFire EV1 cards the complete data area is available which enables the user to store user-related data.
- Compatible to ACS-8
- Compatible to MB24 / 48 / 100 / IK3 / Door controller module for MB
- Clear and logical operating concept
- Simple to configure
- Simple RS-485 addressing, manually or automatically
- Reader is protected against moisture (IP 65)
- Inside and outside operation with temperatures from -25 °C to +55 °C
- Simple wall mounting with two or three screws
- The reader can also be mounted directly on standard DIN flush-mounted boxes
- The faceplate of the housing is subsequently exchangeable (different colours)

Characteristics of the proximity reader:

- A new evaluation method guarantees absolutely firm transmissions
- AES encryption
- Synchronization possible of up to 4 readers mounted close side by side
- Low current consumption

LED indication:

- In normal operation the 3 LEDs of the reader (green, yellow, red/green) are controlled by the EU/panel. Their functions are configured in dependance of the used EU/panel or can be defined via the programming

Interfaces:

- RS-485 bidirectional interface with module bus protocol, suited for ACS-8 and IK3
- Interface range up to 1200 m

VdS Approval **Class C for IDT and AC**

The mifare DESFire EV1 reader „Accentic“ is used as contactless reading device and operating unit with access control and intrusion detection systems.

The reader with keypad allows a combination of PIN and card. Depending on the used EU or panel the keypad can be used to trigger control functions/macros.

DESFire EV1 readers provide an enormous raise of security by the AES (Advanced Encryption Standard) encryption procedure. This procedure is classified as extremly tap-proof and tamper-resistant and is approved for governmental documents with highest grade of confidentiality in the USA.

The setup of mifare DESFire readers is done viq IQ SystemControl or IQ MultiAccess. WINFEM does not support this function.

Technical Data

Rated operating voltage	12 V to 24 V DC
Operating voltage range	9 V to 30 V DC
Current consumption stand-by mode	< 30 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Luminous background	< 4 mA (readers with keypad, time-limited for 5 sec. max. 8 mA)
Interface	RS-485
Interface range RS-485	up to 1200 m
Reading technology	mifare DESFire EV1
Reading distance	1.5 cm (only ID cards)
Connecting cable	5-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection EN 60529	IP65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Please contact our techical hotline if the use of own datacarriers (ID-cards, key fobs, etc.) is intended.

Accessories:

023314	White aluminium housing cover for reader with keypad
023315	Pure white housing cover for reader with keypad
023316.99	Anthracite housing cover for reader with keypad
023317	Pure white housing cover for reader without keypad
023318	Anthracite housing cover for reader without keypad
023319	White aluminium housing cover for reader without keypad
023324	Housing bottom with cover contact
023329	Mounting plate
023501	Decorative screening / weather protection
026362	mifare DESFire EV1 card, 4k
026487	USB Desktop-Reader Mifare Classic & DESFire EV1

026435.10 **mifare DESFire EV1 reader “Accentic” without keypad**

VdS **Approval** **G111004 (IDT), class C; Z111001 (AC), class C**

026436.10 **mifare DESFire EV1 reader “Accentic” with keypad**

VdS **Approval** **G111005 (IDT), class C; Z111002 (AC), class C**

Special keypad features:

- Neutral labelling of LEDs and keypad.
- Abrasion-resistant 10 key keypad with 6 additional functional keys.
- Tactile and acoustical acknowledgement.
- Night design with time-limited luminous background.

LEGIC advant reader

Please contact our techical hotline if the use of own datacarriers (ID-cards, key fobs, etc.) is intended.

026424 LEGIC advant reader "Accentic" without keypad

Approval **G110043 (IDT), class C; Z110001 (AC), class C**

RS-485 and clock/data interface.

The LEGIC advant product line was developed in order to ideally support the setup of access control and other person-based service applications. It guarantees maximum security, scalability and cost-efficient investment safety.

Its highly advanced security features (DES / 3DES) and compatibility with ISO standards (15693, 14443) and the LEGIC RF standard makes this product line also particularly suitable for smart card projects such as mono- and multifunctional company badges and leisure cards.

Typical fields of application include state ID projects, general access control solutions, switching of alarm systems and high-security applications such as IT access protection and biometrics.

Performance Features

- Compatible with multi-industry standard (13.56 MHz Read)
- Simultaneous multi-RF standard operation
- Advanced high-security, DES / 3DES encryption
- Physical Master-Token System Control and Automatic Key Management
- Easy-to-implement multi-applications
- Compatible with ISO standards 15693 and 14443 A
- Meets U.S. Government standards FIPS 201 / PACS V2.2 Transition State Specification
- Downward compatible with LEGIC prime transponders
- Clear and logic operating concept
- Simple commissioning
- Simple RS-485 address allocation, manually or automatically
- A special evaluation method guarantees extremely stable transmissions
- The reader is completely protected from moisture (IP 65)
- Indoor and outdoor use at temperatures ranging from -25 °C to +55 °C
- Simple mounting using two or three screws at the wall
- The reader can also be mounted directly on commercially available DIN flush-mounted boxes
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Technical Data

Rated operating voltage	12 V to 24 V DC
Operating voltage range	9.5 V to 30 V DC
Current consumption stand-by mode	< 45 mA (on average)
Time-limited write/read mode	< 200 mA (incl. status indication)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	LEGIC advant
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection EN 60529	IP65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023317	Face plate for readers without keypad, pure white
023318	Face plate for readers without keypad, anthracite
023319	Face plate for readers without keypad, white aluminium

026425 LEGIC advant reader “Accentic” with keypad

Performance Features

Same performance features as article 026424, but with integrated, background-lit “Accentic” keypad.

- Country-independent labelling of the LEDs and the keypad
- Abrasion-resistant 10-key comfort keypad including 6 additional function keys
- Tactile and acoustic feedback
- Night design with time-limited background lighting

VdS Approval G110044 (IDT), class C; Z110002 (AC), class C

RS-485- and clock/data interface.

The LEGIC advant product line was developed in order to ideally support the setup of access control and other person-based service applications. It guarantees maximum security, scalability and cost-efficient investment safety.

Its highly advanced security features (DES / 3DES) and compatibility with ISO standards (15693, 14443) and the LEGIC RF standard makes this product line also particularly suitable for smart card projects such as mono- and multifunctional company badges and leisure cards.

Typical fields of application include state ID projects, general access control solutions, switching of alarm systems and high-security applications such as IT access protection and biometrics.

Technical Data

Rated operating voltage	12 V to 24 V DC
Operating voltage range	9.5 V to 30 V DC
Current consumption stand-by mode	< 45 mA (on average)
Time-limited write/read mode	< 200 mA (incl. status indication)
Luminous background	< 4 mA (time-limited for 5 sec. max. 8 mA)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	LEGIC advant
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection EN 60529	IP65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023315	Face plate for readers with keypad, pure white
023316.99	Face plate for readers with keypad, anthracite
023314	Face plate for readers with keypad, white aluminium

Accessories for IK3- and Accentic readers

023315 Face plate IK3 and “Accentic” readers with keypad, pure white

Replaceable face plate for IK3 or “Accentic” readers

Technical Data

Colour	pure white, similar to RAL 9010

3 pieces

023316.99 Face plate for IK3 and “Accentic” readers with keypad, anthracite

Replaceable face plate for IK3 or “Accentic” readers

Technical Data

Colour	anthracite (satin grey metallic)

3 pieces

023314 Face plate for IK3 and “Accentic” readers with keypad, white aluminium

Replaceable face plate for IK3 or “Accentic” readers

Technical Data

Colour	white aluminium, similar to RAL 9006

3 pieces

023317 Face plate for IK3 and “Accentic” readers, pure white

Replaceable face plate for IK3 or “Accentic” readers

Technical Data

Colour	pure white, similar to RAL 9010

3 pieces

023318 Face plate for IK3 and “Accentic” readers, anthracite

Replaceable face plate for IK3 or “Accentic” readers

Technical Data

Colour	anthracite (satin grey metallic)

3 pieces

023319 **Face plate for IK3 and “Accentic” readers, white aluminium**

Replaceable face plate for IK3 or “Accentic” readers

Technical Data

Colour	white aluminium, similar to RAL 9006

3 pieces

023501 **Plastic housing (weather/view)**

The housing is in tune with the modern line of the “Accentic” readers.

Technical Data

Dimensions (W x H x D)	82 x 147 x 42-60 mm
Colour	grey-white, similar to RAL 9002

023329 **Mounting plate for “Accentic” readers**

Mounting the mounting plates between the mounting wall and the operating unit produces an opening which allows a surface-mounted cable installation. Since 3 mounting plates per packaging unit are delivered, they can be used as a function of the condition of the ground.

Technical Data

Dimensions (W x H x D)	69 x 137 x 3 mm
Colour	grey-white, similar to RAL 9002

3 pieces

023324 **Housing bottom with cover contact for Accentic readers**

Replacement housing bottom for IK3 readers “Accentic” with integrated cover contact for an IK3 system design according to BSI.

Biometrics

029340 **“Accentic” IK3 finger key reader**

Performance Features

- Biometric reader combined with IK3 reader keypad
- Arming/disarming and access control by finger only, data carrier only, PIN only or finger+PIN **or** data carrier+PIN
- IK3 technology provides support to IK3 alternating code according to VdS 2119, for use with all IK2/proX1 or IK3/proX2 data carriers
- Biometric identification of up to 99 persons using 3 fingers each
- We recommend the following:
  - A maximum of 25 persons, if only biometric identification is used.
  - 99 persons use a combination between fingerprint recognition and a PIN.
- More than 99 persons:
  Authorization is possible via “data carriers only”, “PIN only” or “data carrier + PIN”. Us as a normal IK3 reader with keypad.
- Encrypted memorisation of the templates
- Simple commissioning through teach-in mode at the intrusion detection system or learn card set at the access control system
- When fingers are injured or unsuitable, it is always possible to use the personal data carrier instead, even when the system is running
- High security level when operated on intrusion detection systems:
  - For use as switching device up to SG6
  - Increased arming/disarming security through fingerprint identification Approx. 1/3 more features are evaluated than in AC and control functions
- Insensitive to varying light situations, moisture, soiling, electric fields and “latent fingers” (visible fingerprint left after use)
- Indoor and outdoor use at temperatures ranging from -25 °C to +55 °C, type of protection IP 54, Plastic housing (weather/view) available as accessory
- Simple mounting using two or three screws at the wall
- The reader can also be mounted directly on commercially available DIN flush-mounted boxes
- Easy exchange/addition to existing systems
- Country-independent labelling of the LEDs and the keypad.
- Abrasion-resistant 10-key comfort keypad including 6 additional function keys.
- Tactile and acoustic feedback.
- Night design with time-limited background lighting

VdS **Approval** **G108091 (IDT), class C; Z108002 (AC), class C**

RS-485 and clock/data interface.

The finger key reader is a biometric system that uses the personal fingerprint as identification feature for granting authorisations.

In a special learn mode, 3 fingerprints per person are taken in quick succession and linked to the serial number of a personal data carrier. The fingerprint data are stored in the reader, while the authorisation of the associated data carrier is done in the system.

Instead of the serial number of a really existing data carrier, it is also possible to create a “virtual” serial number as personal identification. In this case, no personal data carrier is required for teach-in.

If the reader is able to identify a currently read-in fingerprint, it will send the serial number of the associated data carrier to the controller. A release is only given if the data carrier (or the “virtual” serial number) in the system has the required authorisation. By virtue of the dynamic switchover of the security threshold, the armed/disarmed requirements for the detected biometric features are higher than in a pure access control operation.

The grade of recognition of authorized or non-authorized persons depends on the number of stored finger prints. With increasing number the security of recogition decreases unavoidably. This is a system-dependent property.

Due to this we recommend:

- max. 15 persons with 3 stored fingers each
- max. 25 persons with 2 stored fingers each

Number of persons with biometric identification + code input (door code or PIN):

- up to 99 persons with 3 stored fingers each

Release is only given if code and finger data can be allocated to the same person. From the 100st person on the use of fingers is no longer possible. In this case a release ist possible via data carrier and/or PIN. The maximum number of persons is limited by the control panel exclusively.

Technical Data

Rated operating voltage	12 V bis 24 V DC
Operating voltage range	9 V to 30 V DC
Current consumption stand-by mode	< 125 mA (on average)
Time-limited write/read mode	< 160 mA (incl. status indication)
Luminous background	< 4 mA (time-limited for 5 sec. max. 8 mA)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	proX2 / IK3 with alternating code (EM4102 and EM4150 Transponder)
Reading distance	> 5 cm with ID card (lower range with key rings)
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection EN 60529	IP54
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 173 x 46 mm
Colour	Housing: basalt grey (similar to RAL 7012); Bottom: light grey (similar to RAL 7035)

The learning card set is generated by the installer.
Normal cards e. g. 026370.00 can be defined as learning card set.
When ordering the cards, please note that another three cards have to be ordered.

Required firmware version for connection at:

IK3 evaluating unit for BUS-2	V09.XX or later
IK3 evaluating unit conventional	V05.XX or later
561 MB24/48	V08.XX or later
561 MB100 (item-no. with index .10)	V08.XX or later

Accessories:

023502 Plastic shield (view/weather) for fingerkey readers
For use with all IK2/proX1 or IK3/proX2 data carriers.

Accessories for Fingerkey

023502 Plastic shield (view/weather) for fingerkey

Dimensions in mm

026363.02 mifare card 4k, coded for mifare fingerkey

Pre-coded password-protected mifare card for storing up to 4 fingerprint templates. An alternative is to store three finger templates and one replacement code.

Accessories:

027850 Protective cover

026363.07 mifare key ring 4k, coded for mifare fingerkey

Pre-coded password-protected mifare key ring for storing up to 4 fingerprint templates. An alternative is to store three finger templates and one replacement code.

Technical Data

Operating temperature	-20 °C to +50 °C
Class of protection	IP 67
Dimensions (W x H x D)	34.5 x 43 x 5 mm
Colour	black

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

IK2-operating units

022194 IK2 operating unit

Approval **G196097 (IDT), class C; Z199500 (AC), class B; VSÖ W 031210/30 E**

The IDENT-KEY operating unit 022194 works contactless and without additional mechanical switching device. This operating unit can be used to read all data carriers of the IK2 system (key cap, key ring, ID card).

Its completely encapsulated shape has made it possible to achieve a type of protection according to EN 60529 of IP 65, which allows uncomplicated mounting, even in outdoor use.

3 LED displays are available for optic display, and additionally an integrated buzzer can be activated. The optical and acoustic displays can be activated either from an intrusion detection control panel or from the IDENT-KEY evaluating unit, as desired.

Performance Features

- Comfortable arming/disarming
- High sabotage security
- Integrated buzzer
- LED displays
- For indoor and outdoor use for surface mounting

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	4 mA
Additional current consumption	
- for reading process	40 m
- each LED	10 mA
- Buzzer	75 mA
Reading distance	max. 10 cm
Connecting cable length	6.0 m
Type of protection EN 60529	IP65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	82 x 90 x 15 mm
Colour	grey-white, similar to RAL 9002

In case of unfavourable installation ground (metal), the range may become reduced.

Accessories:

022193	Decorative film for IK2 operating units (022194 and 022195.10)
022196	Adapter base for IK2 operating unit 022194

022196 Adapter base for IK2 operating unit 022194

Allows horizontal or vertical surface-mounted cable feed.

022193 Decorative foil for IK2 operating units 022194 and 022195.10

Spare part

5 pieces

022195.10 IK2 operating unit, contactless, with numeric keypad

Approval **G196096 (IDT), class C; Z199002 (AC), class C; VSÖ W 031210/31 E**

IDENT-KEY operating unit with numeric keypad, to obtain a coded disarming device.

The IDENT-KEY operating unit 022195.10 works contactless and without additional mechanical switching device. This operating unit can be used to read all data carriers of the IK2 system (key cap, key ring, ID card).

Its completely encapsulated shape has made it possible to achieve a type of protection according toEN 60529 of IP65, which allows uncomplicated mounting, even in outdoor use.

3 LED displays are available for optic display, and additionally an integrated buzzer can be activated. The optical and acoustic displays can be activated either from an intrusion detection control panel or from the IDENT-KEY evaluating unit, as desired.

Performance Features

- Comfortable arming/disarming
- High sabotage security
- Integrated buzzer
- LED displays
- For indoor and outdoor use for surface mounting
- With numeric keypad for coded disarming device

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	5.5 mA
Additional current consumption	
- for reading process	40 mA
- each LED	10 mA
- Buzzer	75 mA
Reading distance	max. 10 cm
Connecting cable length	6.0 m
Type of protection EN 60529	IP65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	82 x 126 x 15 mm
Colour	grey-white, similar to RAL 9002

In case of unfavourable installation ground (metal), the range may become reduced.

Accessories:

022193	Decorative film for IK2 operating units (022194 and 022195.10)
022197	Adapter base for IK2 operating unit 022195.10

022197 Adapter base for “Classic” readers and keypads

For running surface-mounted cables and mounting the reader on a metallic surface.

Allows horizontal or vertical surface-mounted cable feed.

Fits access control articles:
026383.00 / 026380.00 / 026384.10 / 026389.10 / 026064 / 026481.

Fits EMT articles:
022195.10

023500 Plastic shield (view/weather) for “Classic” readers and keypads

Technical Data

Dimensions (W x H x D)	89 x 130.2 x 47 mm

If an already mounted operating unit is to be retrofitted with the plastic shield (view/weather), the operating element must be unscrewed from the wall for mounting. To this end, the decorative film must be removed and replaced with a new one after mounting.
The film is available as spare part.

022198 Comfort-Key IK2

Performance Features

- Comfortable arming/disarming
- High sabotage security
- Contactless - therefore free of wear
- Ident data carrier in the form of:
  - ID card
  - ID key ring
- Quick and easy to mount
- LED displays for enable, alarm, disarmed and armed
- Integrated buzzer
- For indoor and outdoor use for surface mounting

VdS **Approval** **G102020 (IDS), class C; VSÖ W 070427/30 E**

The Comfort-Key operating unit serves as switching device for arming/disarming intrusion detection systems in combination with IK2/IK3 evaluating units and the corresponding code carriers.

The Comfort-Key operating unit is released for operation contactless and without mechanical switching devices.

2 dual LEDs (ready/alarm and disarmed/armed) are available for optical display, which can be activated externally. The LEDs will only be activated when released. The optical and acoustic displays can be activated either from an intrusion detection control panel or by the IDENT-KEY evaluating unit.

The reading mode of the operation unit is permanently active. Thus, the release for an operation enable is activated only by reading a “known” IDENT-KEY data carrier. The data are read as soon as the data carrier is held in front of the reading field.

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at U_b	25 mA
Additional current consumption	
- each LED	10 mA
- Buzzer	10 mA
Reading distance	to 7 cm (key ring 023100)
Dimensions (W x H x D)	87 x 110 x 28 mm
Type of protection EN 60529	IP65
Environmental class as per VdS	III
Operating temperature range	-20 °C to +50 °C
Storage temperature range	-30 °C to +60 °C
Colour	grey-white, similar to RAL 9002; signal grey, similar to RAL 7004

022199 Replacement cover for IK operating unit 022198

022183 IK2 operating unit

Approval **G196095 (IDT), class C; Z199502 (AC), class B; VSÖ W 070427/33 E**

The IDENT-KEY operating unit serves as switching device for arming/disarming intrusion detection systems in combination with the IDENT-KEY evaluating unit.

In this operating unit version, the combination of contactless IDENT-KEY technology and mechanical switching device is used.

The decision on arming/disarming of the intrusion detection system has been moved to the evaluating unit. Since the evaluating unit is located inside the secured area, mechanical and electric tamper attacks on the operating unit have no effect on arming/disarming.

This operating unit can be used to read all data carriers of the IK2 system (key ring, ID card). A dual LED and a buzzer are available for display, of which the buzzer can be freely activated.

Performance Features

- Comfortable arming/disarming
- High sabotage security
- Contactless - therefore free of wear
- Ident data carrier in the form of:
  - ID card
  - ID key ring
- Integrated buzzer
- LED display
- For indoor and outdoor use for flush mounting

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	5 mA
Additional current consumption	
- for reading process	20 mA
- each LED	10 mA
- Buzzer	10 mA
Reading distance	max. 6 cm
Type of protection EN 60529	IP44, locking cylinder correctly mounted
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	86 x 107 x 27 mm
Colour	grey-white, similar to RAL 9002

In case of unfavourable installation ground (metal), the range may become reduced.

Please note that we can no longer provide a key cap for this operating unit.
The „read only“ function of an ID card or key fob can be set via the system programming.

Accessories:

028034	VdS half cylinder
028031	Half cylinder

Phase-out date 31.12.2014.

022189 Decorative film for IK2 operating unit 022183

Spare part

5 pieces

proX1 reader, Classic design

026480.10 “Classic” proX1 proximity reader

RS-485 and Clock/data interface

Reads proX1 and IK2 proximity ID cards.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption	50 mA + 12 mA/LED
Interface	Clock/Data and RS-485
Transmit frequency	125 kHz
Reading range	approx. 12 cm
Type of protection EN 60529	IP64
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Dimensions (W x H x D)	82 x 90 x 15 mm
Colour of housing	grey-white, similar to RAL 9002
Colour foil	light-grey, similar to RAL 7035

Adapter base 022196.

Dimensional drawing

026481 “Classic” proX1 proximity reader with keypad

Proximity reader with 12-key keypad

RS-485 and Clock/data interfaces

Reads proX1 and IK2 proximity ID cards.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption	50 mA + 12 mA/LED
Interface	Clock/Data and RS-485
Transmit frequency	125 kHz
Reading range	approx. 12 cm
Type of protection EN 60529	IP64
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Dimensions (W x H x D)	82 x 126 x 15 mm
Colour of housing	grey-white, similar to RAL 9002
Colour foil	light-grey, similar to RAL 7035

Adapter base 022197.

Dimensional drawing, Dimensions in mm

026380.00 “Classic” proX1 proximity reader

RS-232 interface.

Reads proX1 and IK2 proximity ID cards.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption in no-load	50 mA
Current consumption per LED	15 mA
Maximum current consumption	100 mA
Interface	Clock/Data and RS-485
Wire length	max. 30 m
Reading distance	approx. 12 cm
Type of protection EN 60529	IP64
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-30 °C to +60 °C
Dimensions (W x H x D)	82 x 126 x 15 mm
Colour	grey-white, similar to RAL 9002

Adapter base 022197.

Dimensional drawing, Dimensions in mm

026379.10 Foil for contactless readers

026366.10 proX1 proximity reader - with extended range

RS-485 and Clock/data interface.

Reading range 25 cm (9.84in), **not suitable for outdoor use.**

Reads proX1 and IK2 proximity ID cards.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	11 V DC to 15 V DC
Current consumption	400 mA + 12 mA/LED
Interface	RS-485 and Clock/Data
Transmit frequency	125 kHz
Reading range	approx. 25 cm
Type of protection EN 60529	IP40
Environmental class as per VdS	III (dripping water proof)
Operating temperature range	-25 °C to +60 °C
Dimensions (H x W x D)	196 x 146 x 32 mm
Colour of housing	grey-white, similar to RAL 9002
Colour foil	light-grey, similar to RAL 7035

Phase-out date 01.07.2014.

Performance Features

- Reading technology proX1 (IK2), proX2 (IK3 without alternating code), mifare or LEGIC (depending on model)
- proX reader with Clock/Data interface can be switched to Hitag 1 or 2
- Fits any device box in flush-mounted or hollow-wall design according to DIN at a screw distance of 60 mm
- With and without keypad
- Three LED display some of which are freely programmable
- Integrated buzzer
- RS-485-, Clock/data- or Wiegand interface
- Module bus protocol on RS-485 interface
- Large input voltage range, 8V - 30V DC
- Sabotage detection
- For indoor and outdoor use
- Connection via screw terminals with the lift system
- Compact design, easy mounting

The “Insertic” built-in readers are suitable for installation in standard flush-mounted installation boxes. Owing to their flat style, the readers protrude only 11 mm from the wall. In connection with their low-key colouring, the readers fit in harmoniously in both industrial and private surroundings.

LED displays

The 3 LEDs of the reader (green, yellow, red) are always activated by the EU / central control unit in standard operation. Depending on the EU or central control unit used, their function is fixed or can be defined by programming.

In readers with clock/data interface, the yellow LED is always used as operating display.

The bright luminous symbols and an integrated buzzer give clear acknowledgements during operation.

Interfaces

The readers of the “Insertic” series can easily be integrated into Honeywell access control (ACS series), intrusion detection technology (IK3 EU) and time management (access control and ACS-2 plus options) using the standard interfaces RS-485 or clock/data.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	8 to 30 V DC
Power consumption	max. 2.5 W
Interface	Clock/Data or RS-485 (depending on model)
Reading technology	proX1 (IK2), proX2 (IK3 without alternating code), mifare or LEGIC (depending on model)
Type of protection EN 60529	IP54
Environmental class as per VdS	III
Operating temperature	-25 °C to +60 °C
Storage temperature	-30 °C to +70 °C
Dimensions (W x H x D)	81 x 81 x 11 mm
Dimensions (ØxD)	Mounting case 56 x 24 mm
Colour	grey, similar to RAL 7047

The clock/data reader 027666/.10 and 027667/.10 can be operated at ACT in conjunction with the converter pcb 027901 only.
The clock/data readers 027670, 027671, 027674 and 027675 are **not** suitable for operation at the ACT controller 026101.10 / 026100.10.

Modular design

proX1, proX2 readers

027666.10 “Insertic” proX reader without keypad, clock data/wiegand interface

NEW

027667.10 “Insertic” proX reader with keypad, clock data/wiegand interface

NEW

027668.10 “Insertic” proX reader without keypad, RS-485 interface

NEW

027669.10 “Insertic” proX reader with keypad, RS-485 interface

NEW

mifare classic reader

027670 “Insertic” mifare reader without keypad, clock/data interface

027671 “Insertic” mifare reader with keypad, clock/data interface

027672 “Insertic” mifare reader without keypad, RS-485 interface

027673 “Insertic” mifare reader with keypad, RS-485 interface

LEGIC prime reader

027674 “Insertic” LEGIC reader without keypad, clock/data interface

027675 “Insertic” LEGIC reader with keypad, clock/data interface

027676 “Insertic” LEGIC reader without keypad, RS-485 interface

027677 “Insertic” LEGIC reader with keypad, RS-485 interface

LEGIC advant reader

The readers of the series “Insertic” are suitable for installation in standard f.m. switch boxes. Due to their flat design, the readers only extend 11 mm beyond the surface of the wall. In combination with discreet colours, the readers can be integrated seamlessly in both private and industrial environments.

The readers are available with various different interfaces for a broad sectrum of applications.

027674.10	**“Insertic” LEGIC reader without keypad, clock/data interface**
027675.10	**“Insertic” LEGIC advant reader with keypad, clock/data interface**
027676.10	**“Insertic” LEGIC reader without keypad, RS-485 interface**
027677.10	**“Insertic” LEGIC advant reader with keypad, RS-485 interface**

Performance Features

- Reading technology proX1 (IK2), proX2 (IK3 without alternating code), mifare or LEGIC (depending on model)
- proX reader with Clock/Data interface can be switched to Hitag 1 or 2
- Can be integrated into switch product lines with standard intermediate frame (cut-out 50 x 50 mm)
- Low mounting depth, fits in any standard flush-mounted box at a screw distance of 60 mm
- Three LED display some of which are freely programmable
- Integrated buzzer
- RS-485-, Clock/data- or Wiegand interface
- Module bus protocol on RS-485 interface
- Easy mounting
- Large input voltage range, 8 V - 30 V DC
- Connection via screw terminals with the lift system

The readers of the “Insertic-50” series are suitable for installation in most brand name line of switches with standard intermediate frame. They fit in harmoniously both with unconspicuous standard lines and exclusive lines of switches of high-quality optical appearance.

The reader is available with different interfaces, thus offering a wide range of applications.

LED displays

The 3 LEDs of the reader (green, yellow, red) are always activated by the EU / central control panel in standard operation. Depending on the EU or central control panel, their function is fixed or can be defined by programming.

In readers with clock/data interface, the yellow LED is always used as operating display.

The bright luminous symbols and an integrated buzzer give clear acknowledgements during operation.

Interfaces

The readers of the “Insertic-50” series can easily be integrated into Honeywell access control (ACS series), intrusion detection technology (IK3 EU) and time management (access control and ACS-2 plus options) using the standard interfaces RS-485 or clock/data.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	8 to 30 V DC
Power consumption	max. 2.5 W
Interface	Clock/Data or RS-485 (depending on model)
Reading technology	proX1 (IK2), proX2 (IK3 without alternating code), mifare or LEGIC (depending on model)
Type of protection EN 60529	Depending on the switches used in combination
Operating temperature	-25 °C to +60 °C
Storage temperature	-30 °C to +70 °C
Dimensions (ØxD)	58 x 33 mm
Dimensions (W x H)	Back module 70 x 70 mm
Dimensions (W x H x D)	Front module 50 x 50 x 12 mm
Colour	grey, similar to RAL 7047

The clock/data reader 027660/.10 can be operated at ACT in conjunction with the converter pcb 027901 only.
The clock/data readers 027662 and 027664 are **not** suitable for operation at the ACT controller 026101.10 / 026100.10.

A list of suitable line of switches can be found on our website.

Modular design

proX1, proX2 readers

027660.10 “Insertic-50” proX reader, clock data/wiegand interface

NEW

027661.10 “Insertic-50” proX reader, RS-485 interface

NEW

mifare classic reader

027662 “Insertic-50” mifare reader, clock/data interface

027663 “Insertic-50” mifare reader, RS-485 interface

LEGIC prime reader

027664 “Insertic-50” LEGIC reader, clock/data interface

027665 “Insertic-50” LEGIC reader, RS-485 interface

LEGIC advant reader

027664.10 “Insertic-50” LEGIC advant reader, clock/data interface

027665.10 “Insertic-50” LEGIC advant reader, RS-485 interface

Siedle reader without keypad

023330 Contactless reader IK3 / proX2, white

Approval **G107028 (IDT), class C; Z107005 (AC), class C**

The readers are designed for the Siedle system “Vario”.

RS-485 interface: Suitable for ACS-8, IK3 Evaluation unit

clock/data interface: Suitable for ACS-8, ACS-2 and ACT compatible

Technical Data

Rated operating voltage	12 V / 24 V DC
Rated operating voltage range	8 V to 30 V
Current consumption in no-load operation	< 11 mA
Current consumption in lime limited read/write mode	< 50 mA
Interface	RS-485 and Clock/Data
Reading technology	proX2 / IK3 with alternating code (EM4102 and EM4150 Transponder)
Reading distance	approx. 80 mm with ID cards
Type of protection EN 60529	IP54
Environmental class according to VdS	III
Operating temperature range	-25 °C to +55 °C

Performance Features

- Simple RS-485 address allocation, manual or automatic
- Alternating code method according to VdS 2119 (IDT)
- Simple start-up
- The reader is protected against humidity
- For use outdoors and indoors at temperatures from -25 °C to +55 °C
- Simple assembly

023332.99 Contactless reader IK3 / proX2, silver

Approval **G107028 (IDT), class C; Z107005 (AC), class C**

The description and technical data are identical to those of 023330, except colour silver.

023370 Contactless reader without keypad IK3 / proX2, dark gray glimmer

Approval **G107028 (IDT), class C; Z107005 (AC), class C**

The description and technical data are identical to those of 023330, except colour dark gray glimmer.

023372 Contactless reader without keypad IK3 / proX2, black high gloss

Approval **G107028 (IDT), class C; Z107005 (AC), class C**

The description and technical data are identical to those of 023330, except colour black high gloss.

023374 **Contactless reader without keypad IK3 / proX2, white high gloss**

VdS **Approval** **G107028 (IDT), class C; Z107005 (AC), class C**

The description and technical data are identical to those of 023330, except colour white high gloss.

023376 **Contactless reader without keypad IK3 / proX2, amber glimmer**

VdS **Approval** **G107028 (EMT), Klasse C, Z107005 (ZK), Klasse C**

The description and technical data are identical to those of 023330, except colour amber glimmer.

Siedle reader with keypad

023340 **Contactless reader with keypad IK3 / proX2, white**

VdS **Approval** **G107029 (IDT), class C; Z107006 (AC), class C**

The readers are designed for the Siedle system “Vario”.

RS-485 interface: Suitable for ACS-8, IK3 Evaluation unit

clock/data interface: Suitable for ACS-8, ACS-2 and ACT compatible

Technical Data

Rated operating voltage	12 V / 24 V DC
Rated operating voltage range	8 V to 30 V
Current consumption in no-load operation	< 11 mA
Current consumption in lime limited read/write mode	< 50 mA
Interface	RS-485 and Clock/Data
Reading technology	proX2 / IK3 with alternating code (EM4102 and EM4150 Transponder)
Reading distance	approx. 80 mm with ID cards
Type of protection EN 60529	IP54
Environmental class according to VdS	III
Operating temperature range	-25 °C to +55 °C

Performance Features

- Simple RS-485 address allocation, manual or automatic
- Alternating code method according to VdS 2119 (IDT)
- Clear and logical operating concept
- Neutral labelling of keypad
- Abrasion-resistant 10 key keypad with 6 additional functional keys
- Tactile and acoustical acknowledgement
- Simple start-up
- The reader is protected against humidity
- For use outdoors and indoors at temperatures from -25 °C to +55 °C
- Simple assembly

023342 **Contactless reader with keypad IK3 / proX2, silver**

VdS **Approval** **G107029 (IDT), class C; Z107006 (AC), class C**

The description and technical data are identical to those of 023340, except colour silver.

023371 **Contactless reader with keypad IK3 / proX2, dark gray glimmer**

VdS **Approval** **G107029 (IDT), class C; Z107006 (AC), class C**

The description and technical data are identical to those of 023340, except colour dark gray glimmer.

023373 **Contactless reader with keypad IK3 / proX2, black high gloss**

VdS **Approval** **G107029 (IDT), class C; Z107006 (AC), class C**

The description and technical data are identical to those of 023340, except colour black high gloss.

023375 **Contactless reader with keypad IK3 / proX2, white high gloss**

VdS **Approval** **G107029 (IDT), class C; Z107006 (AC), class C**

The description and technical data are identical to those of 023340, except colour white high gloss.

023377 **Contactless reader with keypad IK3 / proX2, amber glimmer**

VdS **Approval** **G107029 (IDT), class C; Z107006 (AC), class C**

The description and technical data are identical to those of 023340, except colour amber glimmer.

Performance Features

- Capacitive key sensors (no mobile parts)
- RS-485 interface
- Sabotage detection
- Large input voltage range
- Simple installation via screw/plug-in terminals
- Vandalism-proof and impact-resistant glass front
- No keypad visible in the inactive state
- 12 Input fields (digits 0 to 9 and 2 function keys as 7-segment displays, digit height 7 mm)
- Lockable housing

Combination of a proximity reader with keypad with variable digit arrangement.

"Dark Design": In the basic state, neither keys nor digits are visible. The keypad is activated by identification via a badge during the time of input. The arrangement of the digits is effected by a random generator. The digits are scrambled. The luminous areas are simultaneously the key areas. Suitable for use with increased security requirements. The reader has an RS-485 interface.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 to 30 V DC
Current consumption	600 mA
Power consumption	6 W
Type of protection EN 60529	IP40
Operating temperature range	-20 °C to +60 °C
Storage temperature range	-20 °C to +70 °C
Dimensions (W x H x D)	140 x 210 x 75 mm

When operated on IK3 EU, only the access control function is possible. mifare and LEGIC upon request.

026445 proX1 reader with scramble keypad, plastic housing

Technical Data

Colour top	red, similar to RAL 3020
Colour bottom	black

026445.10 proX1 reader with scramble keypad, stainless steel housing

Technical Data

Colour top	stainless steel-grey
Colour bottom	black

Key rings, caps

023101 IK3/proX2 key ring with ring

IDENT-KEY key ring with ring coded for alternating code method

Contactless ID information carrier. For use with IK3, AC and T&A. The individual coding of the chip makes each ring unique. On IK3 systems, the very secure alternating code method can additionally be used.

This key ring makes it easy to use systems for contactless readers such as IK3 switching devices and the corresponding readers of access control and time recording systems. You just place the key against the reading station for contactless readers.

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards. For Tma-Voyager™ in preparation.

023100 IK2/proX1 key ring with ring

For proX1, proX2 and IK2 contactless readers.

Contactless ID information carrier. For use with IK2, AC and T&A. The individual coding of the chip makes each ring unique.

This key ring makes it easy to use systems for contactless readers such as IK2 switching devices and the corresponding readers of access control and time recording systems. You just place the key against the reading station for contactless readers.

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards. IK2 key rings can be used with IK3 systems as well. However, the alternating code methode is not supported.

022190 proX1 key ring

For proX1 and proX2 proximity readers.

Simple design for access control and IK2 readers without sticker.

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

Proximity ID carriers

Minimum purchase of cards 10 pieces. With card order incl. encoding or printing for less than 10 pieces a surcharge for quantities below minimum will be charged, which is 36,00 € for magnetic cards and 79,00 € for all other card types.

026378 IK3/proX2 ID card, printable

ID card for proximity readers with alternating code method, printable.

The IDENT-KEY ID card is a data and information carrier in the cheque card format for IK3 alternating code methods. The electronics is encapsulated inside the card and thus completely protected from moisture and largely from mechanical stress.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

For Tma-Voyager™ in preparation.

Accessories:

027850 Protective cover

026375 IK3/proX2 ID card, with imprint

ID card for proximity readers with alternating code method, with inscription.

With Honeywell logo for IK3 alternating code method.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

For Tma-Voyager™ in preparation.

Accessories:

027850 Protective cover

026368.00 IK2/proX1 ID card, printable

For proX1, proX2 and IK2 proximity readers.

The ID card is a data and information carrier in the cheque card format. The electronics is encapsulated inside the card and thus completely protected from moisture and largely from mechanical stress.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

IK2 cards can be used with IK3 systems as well. However, the alternating code methode is not supported.

Accessories:

027850 Protective cover

026370.00 IK2/proX1 ID card, printed

For proX1, proX2 and IK2 proximity readers.

Including Honeywell logo.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

Accessories:

027850 Protective cover

Contactless with magnetic stripe

Minimum purchase of cards 10 pieces. With card order incl. encoding or printing for less than 10 pieces a surcharge for quantities below minimum will be charged, which is 36,00 € for magnetic cards and 79,00 € for all other card types.

026377 IK3/proX2 ID card, printable, with magnetic stripe

For proximity readers with IK3 alternating code method, without imprint with magnetic stripe uncoded, printable.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

For Tma-Voyager™ in preparation.

Accessories:

027850 Protective cover

026376 IK3/proX2 ID card, with inscription with magnetic stripe

For proximity readers with IK3 alternating code method, with imprint and magnetic stripe uncoded

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

For Tma-Voyager™ in preparation.

Accessories:

027850 Protective cover

026371.00 IK2/proX1 ID card, with inscription, with uncoded magnetic stripe

For proX1, proX2 and IK2 proximity readers.

With magnetic stripe (uncoded), with Honeywell logo.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

Accessories:

027850 Protective cover

026372.00 IK2/proX1 ID card, printable, with uncoded magnetic stripe

For proX1, proX2 and IK2 proximity readers.

With magnetic stripe (uncoded).

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

Accessories:

027850 Protective cover

The prices given below are unit prices. Minimum order quantity 10 items.

026364 mifare card, printable

For mifare readers.

mifare card on both sides blank, white / high-gloss.

Badge code with removable adhesive label “Badge code and article number”.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

Size of ID medium 1 k.

Accessories:

027850 Protective cover

026364.05 mifare key ring

For mifare readers.

mifare key ring black / grey

Badge code with removable adhesive label “Badge code and article number”.

Technical Data

Type of protection EN 60529	IP67
Operating temperature	-20 °C to +50 °C
Dimensions (W x H x D)	32 x 53 x 5 mm
Colour	black

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

Size of ID medium 1 k.

mifare DESFire EV1

The prices given below are unit prices. Minimum order quantity 10 items.

026362 mifare card DESFire EV1 card blank, printable

For mifareDESFire EV1 readers.

4k mifare DESFire EV1 card on both sides blank, white / high-gloss.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

No encryption with NovaTime/NovaLite.

Accessories:

027850 Protective cover

LEGIC prime

The prices given below are unit prices. Minimum order quantity 10 items.

026367 LEGIC card, printable

For LEGIC readers.

LEGIC identity card on both sides blank, white, high-gloss.

Badge code with removable adhesive label “Badge code and article number”.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

Size of ID medium 256 Byte.

Accessories:

027850 Protective cover

026367.01 LEGIC card, printable, with magnetic stripe

For LEGIC and magnetic card readers.

LEGIC identity card with magnetic stripe HICO (uncoded) on both sides blank, white, high-gloss.

Badge code with removable adhesive label “Badge code and article number”.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

Size of ID medium 256 Byte.

Accessories:

027850 Protective cover

026367.02 Blank LEGIC card, blank

For LEGIC readers.

LEGIC identity card on both sides blank, white, high-gloss.

Programmed with Esser data organisation, labelled with continuous badge number.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

Size of ID medium 256 Byte.

Accessories:

027850 Protective cover

026367.03 LEGIC card, printable, with magnetic stripe

For LEGIC and magnetic card readers.

LEGIC identity card with magnetic stripe HICO (uncoded) on both sides blank, white, high-gloss.

Programmed with Esser data organisation, labelled with continuous badge number.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

Size of ID medium 256 Byte.

Accessories:

027850 Protective cover

026367.05 LEGIC key ring

For LEGIC readers.

LEGIC key ring black / grey.

Badge code with removable adhesive label “Badge code and article number”.

Technical Data

Type of protection EN 60529	IP67
Operating temperature	-20 °C to +50 °C
Dimensions (W x H x D)	32 x 53 x 5 mm
Colour	black

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

Size of ID medium 256 Byte.

LEGIC advant

The prices given below are unit prices. Minimum order quantity 10 items.

026373 LEGIC advant card

For LEGIC advant readers.

4 K LEGIC advant identity card on both sides blank, white, high-gloss.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

Accessories:

027850 Protective cover

026373.02 LEGIC advant card, blank

For LEGIC advant readers.

4 K LEGIC identity card on both sides blank, white, high-gloss.

Programmed with Esser data organisation, with continuous badge number.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)

Accessories:

027850 Protective cover

Combi data carriers

Combi data carriers, e. g. mifare and proX on request.

The prices given below are unit prices. Minimum order quantity 10 items.

026000.10 ID magnetic card (coded), with inscription

Magnetic card according to ISO standard 7810.
Laminated polyvinyl chloride (PVC).
Ground white with print and three-line label box.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)
Magnetic stripe	as per DIN 9785 (HiCo) encoded

026003.10 ID magnetic card, codeable, with inscription

Magnetic card according to ISO standard 7810.
Laminated polyvinyl chloride (PVC).
Ground white with print and three-line label box.

Technical Data

Format	85.7 x 54 x 0.8 mm
Magnetic stripe	as per DIN 9785 (HiCo) not encoded, see encoding service.

026000.11 ID magnetic card (coded), without inscription

Magnetic card according to ISO standard 7810.
Laminated polyvinyl chloride (PVC).
Ground neutral white.

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	as per ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (as per DIN ISO)
Magnetic stripe	as per DIN 9785 (HiCo) encoded

Card coding for Honeywell cards (others on request)

026008.10 **Coding of ID magnetic or chip cards**

Between 10 and 99 units.

Not subject to discount.

026008.00 **Coding of ID magnetic or chip cards**

From 100 units

Not subject to discount.

026008.01 **Sealing and coding magnetic card inlets**

Not subject to discount.

026367.04 **Coding a LEGIC card**

With customer-specific data, from 10 units.

Not subject to discount.

026364.04 **Coding a mifare card**

With customer-specific data, from 10 units.

No discount possible. Individual encoding mifare fingerkey, price on request.

Card print

027865 **Printing continuous numbers 1 to 100 units**

Not subject to discount.

027865.01 **Printing continuous numbers from 101 units**

Not subject to discount.

027870.99 **Card print**

Initialisation costs black/white or coloured, once per order and card side.

Not subject to discount.

027871 **Card print**

Per page black/white, 1 - 100 units.

Not subject to discount.

027872 **Card print**

Per page black/white, 101 - 1000 units.

Not subject to discount.

027873 **Card print**

Per page black/white, from 1001 units.

Not subject to discount.

027874 **Card print**

Per page coloured, 1 - 100 units.

Not subject to discount.

027875 **Card print**

Per page coloured, 101 - 1000 units.

Not subject to discount.

027876 **Card print**

Per page coloured, from 1001 units.

Not subject to discount.

Accessories for cards

026009.00 **ID card holder**

Card holder made of black plastic with clip for horizontal or vertical mounting. Suitable for all ID cards according to ISO standard 7810.

Other colours upon request.

027850 **10 protective cover for EC, ID cards**

Further badge accessories available upon request.

10 pieces

Read-in station

023360 proX2, IK3 USB desktop reader

Contactless card reading for IQ MultiAccess, IQ SystemControl, NovaTime and WINFEM Advanced. The reading station is connected to the PC via the built-in USB interface. No additional power supply required.

Reads proX1/IK2 and proX2/IK3 data carriers. By default, data output is in the IS format, but can be switched to the ZK format or IK3 format.

Technical Data

Operating voltage	5 V DC via USB
Current consumption	35 mA
Connecting cable	approx. 1.75 m
Display	DUO-LED green/red
Dimensions (W x H x D)	89 x 16 x 89 mm
Colour	light-grey, similar to RAL 7035

027468 USB desktop reader LEGIC advant

Contactless card reading via IQ MultiAccess and IQ SystemControl. Connection via USB interface. USB plug type A, cable length ca. 2 m.

Technical Data

Voltage supply	5 V DC via USB Port
Current consumption	max. 180 mA
Interface	USB 2.0 (virtual COM Port driver controlled)
Reading distance	ID card in EC format approx. 4 cm; key fob approx. 1.5 cm
Type of protection EN 60529	IP40
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-30 °C to +70 °C
Dimensions (L x W x H)	112 x 54 x 27 mm
Colour	slate grey (similar to RAL 7015)

Unterstützung von NovaTime ab Version 4.1.01.

026487 Read-in station for non-read-protected mifare cards

Contactless reading and writing of mifare classic and DESFire EV1 cards via IQ MultiAccess and IQ SystemControl. Connection via USB interface.

USB plug type A, cable length ca. 2 m.

Technical Data

Voltage supply	5 V DC via USB Port
Current consumption	max. 180 mA
Interface	USB 2.0 (virtual COM Port driver controlled)
Reading distance	ID card in EC format approx. 4 cm; key fob approx. 1.5 cm
Type of protection EN 60529	IP40
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-30 °C to +70 °C
Dimensions (L x W x H)	112 x 54 x 27 mm
Colour	slate grey (similar to RAL 7015)

Support of NovaTime/NovaLite in preparation.

The door code control units that are no longer available are replaced with the conventional IK3 evaluating unit 023310.17 and the corresponding operating units.

When existing components are replaced, both components (keypad and control unit) must always be replaced.

The keypad units are not mutually exchangeable.

Code keypad units for indoor and outdoor installation

025105 **Keypad unit, lockable (matrix)**

Approval **G193010 (IDS), class C; VSÖ W 070427/40 E**

Code keypad units are used in door code systems or in hazard detection systems with coded disarming device.

Connection: 3/4 matrix. The keys of the unit are arranged as a matrix. This means that not every key has its own connection.

(12 keys = 7 connections)

Surface-mounted version including three LEDs and a buzzer.

Technical Data

Type of protection EN 60529	IP32
Dimensions (W x H x D)	73 x 164 x 36 mm
Colour	grey white, similar to RAL 9002

Motion detectors

- Viewguard DUAL
- Viewguard PIR
- Passive infrared detectors SCM
- Dual motion detectors
- PIR detectors
- Infrared light barrier

Motion detector with combined passive infrared plus microwave sensor

Performance Features

- Approvals / Conformity
  - Viewguard DUAL AM BUS-2/BUS-1 or FAI VdS Class C (G108039 / G106078) EN 50131-1 and EN 50131-2-4: 2008-10, Grade 3
  - Viewguard DUAL BUS-2/BUS-1 or FAI: VdS Class B (G108512 / G106518) EN 50131-1 and EN 50131-2-4: 2008-10, Grade 2
- Anti-mask monitoring AM (AM detectors only)
  - Detects covering and spraying of the window, range up to 30 cm
- Microwave sensor
  - can be deactivated in the “unarmed” state
- LED display
  - Unambiguous display of the operating state and detection display in the walk test mode via two LEDs
- FAI-logic
  - The detector triggered first can be identified by means of the LED display
- Walk test function
  - Easy method of performing a functional control and a detection range check
- Detector group input (BUS detectors only) for integrating contacts/potential-free detectors into the BUS-2 system (on 561-MB24/48/100 control panels) or BUS-1 system (on 561-MB24/48/100 and MB256 plus control panels), the detector group is not clearable
- Range of detection
  - Range programmable in four steps
- Sensitivity of detection
  - Sensitivity programmable in two steps.
- Storing / not storing fault/covering (AM detectors only)
  - Storing: Message is stored until it is cleared
  - Not storing: Message is reset automatically once the fault/covering has been eliminated
- Self-test (AM detectors only)
  - Cyclic detector test for correct functioning
- Operating voltage monitoring
  - Fault signal when operating voltage is too low
- Temperature measurement (BUS-2 on 561-MB12/24/48/100 only)
  - Temperature alarm when ambient temperature is inadmissibly high/low
  - Alarm thresholds programmable
- Tear-off protection / Cover contact
  - For mounting according to EN 50131-2-4 Grade 3
- Versatile mounting options (see figure)
  - Inclined vertically downward, horizontally toward the left or right, corner mounting and
  - mounting on adjusting hinge or ball joint (accessories)

The Viewguard DUAL motion detectors have sensor systems working independently, **PIR motion detector and microwave sensor.**

The functional principle of the detectors is based on an intelligent connection of the two sensor systems. This connection makes the detectors particularly insensitive to air and heat turbulences, resulting in optimum alarm detection with extremely high false alarm immunity.

For continuous detection, the detector are equipped with a high-quality mirror optics (area optics).

The detectors are suitable for intrusion detection control panels equipped with BUS-2 or BUS-1 technology or conventional connection technology and are available with or without anti-mask (AM) monitoring.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	8 V to 15 V DC
Current consumption at 12 V DC	6.6 mA BUS-2 9 mA BUS-1 7.6 mA FAI 4 mA LED
Range	programmable
Volumetric optics	22 zones, up to 15 m, opening angle 80°
Installation position	vertical, optics down
Pan Travel	Detector with adjustable hinge: ±20° horizontal; +4° to -8° vertical
Alarm display	LED red
Fault display	LED yellow
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without adjustable hinge (W x H x D)	64 x 158 x 48 mm

No other mirror optics (curtain- or long range optics) applicable for dual detectors.

Accessories:

033390.17	Adjusting hinge, horizontal ±20°, vertical +4° to -8° according to VdS and EN Grade 2
033588.17	Ball joint set for wall and corner mounting, horizontal ±45°, vertical ±20° not according to VdS and EN
033391.17	Seal, (20 per packaging unit)

033442.21 Viewguard AM BUS-2/BUS-1 with area optics

VdS **Approval**

Approvals: **G108039 (IDT), class C**
According: **EN 50131-2-4 (08/10), grade 3, environmental class II**

Operation on BUS-2 or alternatively on BUS-1.

Technical Data

Colour	traffic white, similar to, RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-4: 2008-10, grade 3

The devices may only be marketed and operated in the following countries:
Germany, Austria, Switzerland, Liechtenstein, Poland, Slovakia, Czech Republic, Luxembourg, Turkey, Greece, Latvia, Hungary, Belgium, Netherlands, Bulgaria and Romania.

033443.21 Viewguard DUAL BUS-2/BUS-1 with area optics

VdS **Approval**

Approvals: **G108512 (IDT), class B**
According: **EN 50131-2-4 (08/10), grade 2, environmental class II**

Operation on BUS-2 or alternatively on BUS-1.

Technical Data

Colour	traffic white, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-4: 2008-10, grade 2

The devices may only be marketed and operated in the following countries:
Germany, Austria, Switzerland, Liechtenstein, Poland, Slovakia, Czech Republic, Luxembourg, Turkey, Greece, Latvia, Hungary, Belgium, Netherlands, Bulgaria and Romania.

033440.01 Viewguard DUAL AM FAI with area optics

VdS **Approval**

Approvals: **G106078 (IDT), class C; VSÖ W080312/12E**
According: **EN 50131-2-4 (08/10), grade 3, environmental class II**

Technical Data

Colour	traffic white, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-4: 2008-10, grade 3

The devices may only be marketed and operated in the following countries:
Germany, Austria, Switzerland, Liechtenstein, Poland, Slovakia, Czech Republic, Luxembourg, Turkey, Greece, Latvia, Hungary, Belgium and Netherlands, Bulgaria and Romania.

033441.01 Viewguard DUAL FAI with area optics

VdS **Approval**

Approvals: **G106518 (IDT), class B; VSÖ GS-N080312/22E**
According: **EN 50131-2-4 (08/10), grade 2 environmental class II**

Technical Data

Colour	traffic white, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-4: 2008-10, grade 2

The devices may only be marketed and operated in the following countries:
Germany, Austria, Switzerland, Liechtenstein, Poland, Slovakia, Czech Republic, Luxembourg, Turkey, Greece, Latvia, Hungary, Belgium, Netherlands, Bulgaria and Romania.

033450.01 **Viewguard DUAL AM FAI**

VdS	**Approval**	**According:**	**EN 50131-2-4:2008-10, grade 3 environmental class II**
		Norway:	**FNH:** **PIR/MW 004/08**
		Denmark:	**F&P:** **10.212.00555**
		France:	**NFa2P:** **2830420410A0/283041-00**

The devices may only be sold and operated in the following countries:
France, Spain, Italy, Portugal, United Kingdom, Denmark, Norway, Bulgaria and Romania.

033451.01 **Viewguard DUAL FAI**

VdS	**Approval**	**According:**	**EN 50131-2-4:2008-10, grade 2 environmental class II**
		Norway:	**FNH:** **PIR/MW 005/08**
		Denmark:	**F&P:** **10.212.00554**
		France:	**NFa2P:** **2820421200A0/282120-00**

The devices may only be sold and operated in the following countries:
France, Spain, Italy, Portugal, United Kingdom, Denmark, Norway, Bulgaria and Romania.

Viewguard DUAL mounting options and detection area

Viewguard DUAL mounting options

Mounting without adjusting hinge

- Vertical 0° (1) or inclined downward by 3° (2)
- Horizontal 0° or 45° toward the left or right (3)
- Corner mounting (4)

Mounting with adjusting hinge (accessories)

Detection range

Area optics with sneak-by guard
Recommended mounting height 2,5 m for optimal operating sensitivity.

Typical detection coverage
with range setting 15 m:

Lens splitting:
22 zones over 5 levels
Opening angle:
80° horizontal, 64° vertical
PIR and microwave range:
(8 / 11 / 13 / 15m)

PIR and microwave work automatically with the same range

Mounting 0° inclination

Passive infrared motion detectors

Performance Features

- Approvals / Conformity
  - Viewguard PIR AM BUS-2/BUS-1 or FAI: VdS Class C (G108036/G108037/G108038 or G107087) EN 50131-1 and EN 50131-2-2: 2008-09, Grade 3
  - Viewguard PIR BUS-2/BUS-1 or FAI: VdS Class B (G108509/G108510/G108511 or G107509) EN 50131-1 and EN 50131-2-2: 2008-09, Grade 2
- Anti-mask monitoring AM (AM detectors only)
  - Detects covering and spraying of the window, range up to 30 cm
- LED display
  - Unambiguous display of the operating state and detection display in the walk test mode via two LEDs
- FAI-logic (first alarm indication, only BUS-2 on 561-MB24/48/100 and FAI detectors)
  - The detector triggered first can be identified by means of the LED display
- Walk test function
  - Easy method of performing a functional control and a detection range check
- Detector group input (BUS detectors only) for integrating contacts/potential-free detectors into the BUS-2 system (on 561-MB24/48/100 control panels) or BUS-1 system (on 561-MB24/48/100 and MB256 plus control panels) the detector group is not clearable
- Range of detection
  - Range programmable in four steps
- Sensitivity of detection
  - Sensitivity programmable in two steps
- Storing / not storing fault/covering (AM detectors only)
  - Storing: Message is stored until it is cleared
  - Not storing: Message is reset automatically once the fault/covering has been eliminated
- Self-test (AM detectors only)
  - Cyclic detector test for correct functioning
- Operating voltage monitoring
  - Fault signal when operating voltage is too low
- Temperature measurement (BUS-2 on 561-MB12/24/48/100 only)
  - Temperature alarm when ambient temperature is inadmissibly high/low
  - Alarm thresholds programmable
- Tear-off protection / Cover contact
  - For mounting according to EN 50131-2-2 Grade 3
- Versatile mounting options (see figure)
  - Inclined vertically downward, horizontally toward the left or right, corner mounting and mounting on adjusting hinge or ball joint (accessories)

The Viewguard PIR detectors are motion detectors that work by the passive infrared principle.

For continuous detection, the detector are equipped with a high-quality mirror optics. The standard models are delivered with a mirror for surface optics. Upon request the detectors can be upgraded on-site to route or curtain optics by integrating separately available accessories.

The detectors are suitable for intrusion detection control panels equipped with BUS-2 or BUS-1 technology or conventional connection technology and are available with or without anti-mask (AM) monitoring.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	8 V to 15 V DC
Current consumption at 12 V DC	0.6 mA BUS-2 3 mA BUS-1 1.6 mA FAI 4 mA LED
Range	programmable
Volumetric optics	22 zones, up to 15 m, opening angle 80°
Installation position	vertical, optics down
Pan Travel	Detector with adjustable hinge: ±20° horizontal; +4° to -8° vertical
Alarm display	LED red
Fault display	LED yellow
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without adjustable hinge (W x H x D)	64 x 130 x 48 mm

Accessories:

033434	Viewguard PIR set of mirrors, curtain optics (3 per packaging unit)
033435	Viewguard PIR set of mirrors, route optics (3 per packaging unit)
033390.17	Adjusting joint, horizontal ±20°, vertical +4° to -8° according to VdS and EN Grade 2
033588.17	Ball joint set for wall and corner mounting, horizontal ±45°, vertical ±20° not according to VdS and EN
033391.17	Seal, (20 per packaging unit)

033432.21 Viewguard PIR AM BUS-2/BUS-1 with area optics

VdS **Approval**

Approvals:	**G108036 (IDT), class C** **G108037 (IDT), class C,** **retrofitted for vertical curtain optics** **G108038 (IDT), class C,** **retrofitted for long range optics**
According:	**EN 50131-2-2 (08/09),** **grade 3 environmental class II**

Operation on BUS-2 or alternatively on BUS-1.

Technical Data

Colour	traffic white, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-2: 2008-09, grade 3

033332.21 Viewguard PIR BUS-2/BUS-1 with area optics

VdS **Approval**

Approvals:	**G108509 (IDT), class B** **G108510 (IDT), class B,** **retrofitted for vertical curtain optics** **G108511 (IDT), class B,** **retrofitted for long range optics**
According:	**EN 50131-2-2 (08/09),** **grade 2 environmental class II**

Operation on BUS-2 or alternatively on BUS-1.

Technical Data

Colour	traffic white, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-2: 2008-09, grade 2

033430.01 Viewguard PIR AM FAI with area optics

VdS **Approval**

Approvals:	**G107087 (IDT), class C** **G107088 (IDT), class C,** **retrofitted for vertical curtain optics** **G107091 (IDT), class C,** **retrofitted for long range optics**
According:	**EN 50131-2-2 (08/09),** **grade 3 environmental class II**
FNH:	**PIR-012/08**
F&P:	**10.212-00553**
MABISZ:	**4144-10-4/20080522**
INCERT:	**C0230399**
REQ:	**0089**
SBSC:	**08-166, vertical curtain optics** **08-167, long range optics** **08-241, wide angle optics**
FI:	**RL 08 006**
LPCB:	**877a**
NFa2P:	**2630420470A0/263047-00** **263047-01, wide angle optics** **262281-02, long range optics** **262281-03, vertical curtain optics**
VSÖ:	**W080605/05E, long range optics** **W080605/07E, vertical curtain optics**

Technical Data

Colour	traffic white, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-2: 2008-09, grade 3

033330.01 **Viewguard PIR FAI with area optics**

VdS **Approval**

Approvals:	**G107509 (IDT), class B** **G107510 (IDT), class B,** **retrofitted for vertical curtain optics** **G107513 (IDT), class B,** **retrofitted for long range optics**
According:	**EN 50131-2-2 (08/09),** **grade 2 environmental class II**

Technical Data

Colour	traffic white, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-2: 2008-09, grade 2

Application examples

Detection range

Detection range

Area optics with sneak-by guard
Recommended mounting height 2,5 m
for optimal operating sensitivity.

Typical detection coverage with range setting 15 m:

Lens splitting 22 zones at 5 levels
Opening angle 80° hor., 64° vert.
Range 8 / 11 / 13 / 15 m

Mounting 0° inclination

Standard equipment includes a mirror for area optics. If required, the detectors can be retrofitted to long-range or curtain optics with accessories that are available separately.

Long-range optics (Item no. 033435)
Suitable for monitoring corridors

Lens splitting 8 zones on 6 levels
Opening angle 30° hor., 78° vert.
Range 29 / 35 / 42 / 50 m

Mounting 0° inclination

Curtain optics (Item no. 033434)
Suitable for monitoring possible intrusion locations

Lens splitting 11 zones on 11 levels
Opening angle 7,5° hor., 85° vert.
Range 17 / 21 / 25 / 30 m

Mounting 0° inclination

Easy retrofitting of the mirror optics on site:

1. Remove screw
2. Fold up mirror
3. Remove mirror

Installation:
Insert the mirror in reverse order. Insert the screw and tighten slightly.
Close housing.

Passive infrared detectors SCM 2000

The PIR system series “SCM 2000” is equipped with a mirror optics and corresponds to VdS class B. The SCM 2000 has been optimised for high tamper security and high detection sensitivity.

2 different connection methods are available: conventional connection technology by means of first alarm detection logic; BUS-1 connection technology (3-wire). The BUS-1 technology provides the advantages of a 3-wire data bus. Already existing systems can be expanded without any problems. The low installation expenditure allows a time- and cost-effective installation. A selective activation and evaluation give the operator high operating convenience and a high degree of safety. For ease of adaptation to different room situations, the SCM 2000 is available with 3 different optics:

- Area optics, for monitoring rooms
- Long range optics, for monitoring corridors
- Curtain optics for selective traps

The programmable detection range and sensitivity the 3 optics and the elaborate mounting options allow optimum adaptation to special room situations at any time.

Performance Features

- 2 connection technologies: First alarm indication (FAI) or BUS-1
- Attractive design
- Compact housing
- Low overall current consumption
- 3 different mirror optics for selective premises monitoring
- Excellent response sensitivity through a balanced synthesis between optics and electronics
- Maximum immunity to radiated noise by means of a special layout system
- Range programmable in 4 steps
- Sensitivity programmable in 2 steps
- Connection via screw terminals with the lift system
- Tamper monitoring according to VdS
- Easy installation and startup
- Corner or wall mounting, as desired
- Temperature compensation
- Walk test

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	armed max. 3.5 mA FAI / max. 2.5 mA BUS-1; walk test (incl. LED) max. 6.5 mA (FAI and BUS-1)
Alarm contact	Switching capacity 30 V DC / 100 mA
Tamper switch	Switching capacity 30 V DC / 100 mA
Internal resistance	max 10 Ohm
Alarm display	LED red
Range	programmable
Volumetric optics	22 zones, up to 16 m
Long range optics	8 zones, up to 50 m
Curtain optics (vertical)	11 zones, up to 30 m
Installation position	vertical, optics down
Pan Travel	Detector with adjustable hinge: ±20° horizontal; +4° to -8° vertical
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without adjustable hinge (W x H x D)	57 x 138 x 49 mm
Colour	grey white, similar to RAL 9002

033360 **SCM 2000 first alarm indication with area optics**

VdS **Approval** **G196652 (IDT), class B; VSÖ P 031210/37 E**

Phase-out date 30.06.2014.

033361 **SCM 2000 first alarm indication with long range optics**

VdS **Approval** **G196675 (IDT), class B; VSÖ P 031210/40 E**

Phase-out date 30.06.2014.

033362 **SCM 2000 first alarm indication with curtain optics**

VdS **Approval** **G196672 (IDT), class B; VSÖ P 031210/42 E**

Phase-out date 30.06.2014.

033370 **SCM 2000 BUS-1 with area optics**

VdS **Approval** **G196653 (IDT), class B; VSÖ P 031210/39 E**

Phase-out date 30.06.2014.

033371 **SCM 2000 BUS-1 with long range optics**

VdS **Approval** **G196676 (IDT), class B; VSÖ P 031210/41 E**

Phase-out date 30.06.2014.

033372 **SCM 2000 BUS-1 with curtain optics**

VdS **Approval** **G196673 (IDT), class B; VSÖ P 031210/43 E**

Phase-out date 30.06.2014.

Passive infrared detectors SCM 3000

The PIR system series “SCM 3000” is equipped with a mirror optics and corresponds to the requirements of VdS class C. The precise optics and the sophisticated sensor electronics with temperature compensation give a maximum degree of detection and sabotage security. The monitoring against covering (range up to 20 cm) integrated in the SCM 3000 informs the operator on sabotage in the form of covering up or spraying.

The BUS-1 technology provides the advantages of a 3-wire data bus.

Already existing systems can be expanded without any problems. The low installation expenditure allows a time- and cost-effective installation. A selective activation and evaluation give the operator high operating convenience and a high degree of safety.

For ease of adaptation to different room situations, the SCM 3000 is available with 3 different optics:

- Area optics, for monitoring rooms
- Route optics, for monitoring corridors
- Curtain optics for selective traps

The programmable detection range and sensitivity the 3 optics and the elaborate mounting options allow optimum adaptation to special room situations at any time.

Performance Features

- BSI Approval
- BUS-1 connection technology
- Attractive design
- Compact housing
- Low overall current consumption
- 3 different mirror optics for selective premises monitoring
- Maximum immunity to radiated noise by means of a special layout system
- Range programmable in 4 steps
- Sensitivity programmable in 2 steps
- Digital interference evaluation
- Connection via screw terminals with the lift system
- Tamper monitoring according to VdS
- Easy installation and startup
- Corner or wall mounting, as desired
- Monitoring against covering: It detects when the detector is covered up or glued up. With or without storage
- Cyclic self-test: In the disarmed state, correct function and supply voltage are tested
- Temperature compensation
- Walk test

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	armed max. 3 mA, walk test (incl. LED) max. 8 mA
Alarm contact	Switching capacity 16 V DC / 100 mA
Tamper switch	Switching capacity 30 V DC / 100 mA
Internal resistance	max 10 Ohm
Alarm display	LED red
Fault display	LED yellow
Range	programmable
Volumetric optics	22 zones, up to 16 m
Long range optics	8 zones, up to 50 m
Curtain optics (vertical)	11 zones, up to 30 m
Installation position	vertical, optics down
Pan Travel	Detector with adjustable hinge: ±20° horizontal; +4° to -8° vertical
Environmental class as per VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without adjustable hinge (W x H x D)	57 x 138 x 49 mm
Colour	grey white, similar to RAL 9002
Type of protection EN 60529	IP30

033401 **SCM 3000 BUS-1 with area optics**

VdS **Approval** **G196074 (IDT), class C; VSÖ W 031210/46 E**

Phase-out date 30.06.2014.

033404 **SCM 3000 BUS-1 with longe range optics**

VdS **Approval** **G196086 (IDT), class C**

Phase-out date 30.06.2014.

033407 **SCM 3000 BUS-1 with curtain optics**

VdS **Approval** **G196083 (IDT), class C**

Phase-out date 30.06.2014.

Mounting options

Installation options SCM 2000/3000

Installation without adjusting hinge

Installation with wall mounting bracket

Beam characteristics SCM 2000/3000

Volumetric optics,
for monitoring rooms
of up to 12m x 12m
Lens splitting:
22 zones on 5 levels
Opening angle:
80° horizontal, 64° vertical
Range:
16m on 4 levels (9 / 11 / 13 / 16m)

Volumetric optics

View from side

View from above

Curtain optics horizontal,
for monitoring
clamber areas
Lens splitting:
11 zones on 11 levels
opening angle:
7,5° horizontal, 85° vertical
Range:
30m on 4 levels (17 / 21 / 25 / 30m)

Curtain optics horizontal
Mounting 0° tilt

View from side

View from above

Long-distance optics,
for monitoring corridors
Lens splitting:
8 zones on 6 levels
Opening angle:
30° horizontal, 78° vertical
Range:
50m on 4 levels (29 / 35 / 42 / 50m)

Long-distance optics
Mounting 0° tilt

View from side

View from above

Accessories

033390.17 Adjustable hinge for motion detectors

Technical Data

Range of adjustment	±20° horizontal; +4° to -8° vertical; according to VdS and EN grade 2
Colour	traffic white similar to RAL 9016

For SCM- and Viewguard motion detectors.

033391.17 Lock seals for motion detectors

For SCM- and Viewguard motion detectors.

20 pieces

033436 Viewguard spare parts wall-tamper

5 pieces

033588.17 Ball joint set for wall and corner mounting

Includes adjusting options on all sides for optimum adaptation to the monitored area.

Technical Data

Range of adjustment	±45° horizontal; ±20° vertical; non VdS and EN conform
Colour	traffic white similar to RAL 9016

For SCM- and Viewguard motion detectors.

1 mounting base for wall mounting; 1 mounting base for corner mounting.

033434 Viewguard PIR set of mirrors Curtain optics

Technical Data

Curtain optics (vertical)	11 zones on 11 levels
Read angle	7,5° hor., 85° vert.
Range	17 / 21 / 25 / 30 m, programmable

For Item no. 033330.xx, 033430.xx, 033332.xx, 033432.xx.

3 pieces

033435 Viewguard PIR set of mirrors Long range optics

Technical Data

Long range optics	8 zones on 6 levels
Read angle	30° hor., 78° vert.
Range	29 / 35 / 42 / 50 m, programmable

For Item no. 033330.xx, 033430.xx, 033332.xx, 033432.xx.

3 pieces

033150 Dual/AM-ceiling detector DD666AM-D, 20 m

Approval G110511 (IDT), class B

Ceiling detector with new dual technology. The unique mirror technology consists of a combination of Step & Gliding Focus mirror technique, which forms 18 continuous capture curtains, providing an optimal registration of an intruding person.

The 18 capture curtains enable a maximum of detection capability including a complete capturing of crawling under and a detection area of up to 20 m in diameter.

The 4D signal evaluation enables an efficient distinction between an intruding person and hoax signals. The DD600 series is characterized by the recognition of the diverseness of signals in security applications by using the 4D and Bi-Curtain signal evaluation, which is designed even for rough environment conditions. The combination of the mirror options with the 4D signal evaluation enables a better detection and higher stability as well as resistance against false reports.

The DD600 sensors contain a unique radar technology with a coverage control in 5.8 GHz freuqency range. The coverage control prevents false reports by the recognition of movement of persons outside the capture range of the detector.

The motion detectors can be flush mounted in the ceiling using the optional accessory 360FM. The mounting kit enables an optical attractive integration of the detector into the ceilling in a way the upper part only is visible .

Performance Features

- Dual AM/motion detector
- Automatic detection of all cover attempts
- Step & Gliding focus multi curtain mirror optics
- Range controlled radar in S-band
- Plug-in electronics
- Sealed optics
- 4D signal evaluation to prevent environmental alarms
- Adjustable capture area with mirror masks
- Additional Bi-curtain signal evaluation for contrarious environments
- No setting of mounting height required
- Complies with EN50131-2-2, grade 3
- Various European approvals

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 to 15 V DC
Current consumption	12 mA (nom.)
Alarm relay	NC idle (potential free)
Tamper relay	NC with cover closed (potential free)
AM relay	80 mA with 30 V DC max.
Microwave frequency	5.8 GHz
Control inputs	Walk test & day-night
Alarm memory	Yes
Detection range	20 m
Detection area	Diameter 20+/-0.5 m, 12+/-0.5 m (adjustable)
Angle of vision	360° with 18 curtains or 180° with 9 curtains (adjustable)
Selection of detection curtains	Curtain labels
Crawling under protection	Yes
Installation height	2.5 m to 5 m
Tear off contact	existing
Type of protection EN 60529	IP30
Operating temperature range	-10 °C to +55 °C; 95% relative humidity
Dimensions (ØxD)	138 x 92 mm

Accessories:

033152 360FM Installation kit for ceiling mounting of dual motion detectors of the DD600 series

033151 Dual detector DD666-D, 20 m

Approval G110510 (IDT), class B

As 033150, but **without** anti masking monitoring.

033152 360FM Mounting kit for ceiling mounting

Installation kit for ceiling mounting of dual motion detectors of the DD600 series.

1 x accessory bag with three Phillips screws M3 x 40
1 x mounting ring grey for f. m. ceiling mounting , outside diameter 175 mm with 3 insert nuts
1 x ring for on ceiling mounting s. m. white,with 3 boreholes

“Request-to-Exit” detectors

IS310WH “IS-310WH” access control motion detectors

The “Request-to-Exit” (RTE) detectors are available as standard version and as full version and are suitable for any application in the area of access control. The quick-to-install detectors are extremely flexible, offer plenty of cable routing space and contain built-in internal sealing caps, allowing precise target area detection.

Functionalities:

- Monitors an access control point for persons who want to leave the secured area.
- Monitors movements in an adjustable detection area.
- Generates a “Request-to-Exit” message, which is sent to the access control system / door locking system.
- Enables the automatic operation of a swing door.
- Already mandatory in many countries.

Performance Features

- Adjustable relay time (0.5 - 64 sec)
- Electronic signal evaluation and processing
- Bidirectional adjustment possible for additional security
- Adjustable sealing caps allow precise detection of the target area
- Mounting on wall or ceiling
- Colour white

Technical Data

Operating voltage	12 V to 24 V AC or DC
Quiescent current	35 mA
Range (depending on mounting height)	165 x 60 cm to 250 x 480 cm
signal processing	RTE and securing mode
compensating temperature	progressive Dual-Slope method
Recogizable walking speed	0.1 to 0.35 m/Sec.
Alarm relay	two C-shaped outputs
Display	Green (operation) LED
Installation height	210 to 460 cm
Operating temperature	-10 °C to + 50 °C
Dimensions (W x H x D)	17.8 x 5 x 5cm

IS320WH “IS-320WH” access control motion detector plus

For the description, see article IS310WH.

Performance Features

Performance features same as article IS310WH.

Additional functions of the IS-320 WH/BL:

- Acoustic signalling
- Door contact input
- Input for reader / keypad/key switch
- Remote arming and acoustic inputs
- Door monitoring and fail-safe protection mode

Indoor light barrier

The transmitter transmits modulated infrared signals to the receiver. Interruptions of the IR beam are detected by the receiver and reported (alarm). Increased safety provided by synchronisation method and monitoring of the type of signal.

Performance Features

- Small size for discreet and space-saving installation
- One-man adjustment
- Insensitive to sunlight
- Detection of tamper attempts using external transmitters (including those of the same type of construction)
- Detection of faults
- First alarm memory
- Arming/disarming
- Walk test (functional test), reset after sabotage
- Undervoltage alarm

Technical Data

Rated operating voltage	12 V DC / AC
Operating voltage range	9 V to 35 V DC, 9 V to 25 V AC, 50 Hz; 9 V to 18 V DC for VdS application
Current consumption at 12 V DC	normally 20 mA, max. 25 mA
Range	99 m indoor application
Infrared ray	890 nm, pulse code modulation
Setting angle	approx. ±25° horizontal, approx. ±12° vertical
Read angle	receiver ca. 6°, transmitter ca. 6°
Response sensivity	adjustable 25 to 500 ms
Relay contact rating	wearless, max. 60 V / 0.2 A DC / AC
Inputs	inputs currents 100 µA, capacity 10 nF, max. 35 V DC or 25 V AC / 50 Hz
Output	max. 50 mA / 12 V DC, short-circuit protected
Type of protection EN 60529	IP54
Environmental class as per VdS	IV
Temperature range	+10 °C to +75 °C
Weight	ca. 0.5 kg (1 beam)
Colour	anodised, matt black

This program range allows individual solutions, mounting variants and colouring on request.

Application example

033080 IRS 509 light barrier inside, 22 cm high, 1 beam

Approval G 100029 (IDT), class C; VSÖ W 070427/42

Technical Data

Dimensions (W x H x D)	40 x 220 x 40 mm

033081 IRS 509 light barrier inside, 100 cm high, 3 beams

Approval G 100029 (IDT), class C; VSÖ W 070427/43

Technical Data

Dimensions (W x H x D)	40 x 1000 x 40 mm

033082 **IRS 509 light barrier inside, 150 cm high, 5 beams**

VdS **Approval** **G 100029 (IDT), class C; VSÖ W 080312/26**

Technical Data

Dimensions (W x H x D)	40 x 1500 x 40 mm

033083 **IRS 509 light barrier inside, 200 cm high, 8 beams**

VdS **Approval** **G 100029 (IDT), class C; VSÖ W 070427/44**

Technical Data

Dimensions (W x H x D)	40 x 2000 x 40 mm

Outdoor light barrier

The transmitter transmits modulated infrared signals to the receiver. Interruptions of the IR beam are detected by the receiver and reported (alarm). Increased safety provided by synchronisation method and monitoring of the type of signal.

Technical Data

Rated operating voltage	12 V DC / AC
Operating voltage range	9 V to 35 V DC, 9 V to 25 V AC, 50 Hz;
Current consumption at 12 V DC	approx. 125 / 250 mA (piece / pair)
Range	72 m outdoor application
Infrared ray	890 nm, pulse code modulation
Setting angle	approx. ±25° horizontal, approx. ±12° vertical
Read angle	receiver ca. 6°, transmitter ca. 6°
Response sensivity	adjustable 25 to 500 ms
Relay contact rating	wearless, max. 60 V / 0.2 A DC / AC
Inputs	inputs currents 100 µA, capacity 10 nF, max. 35 V DC or 25 V AC / 50 Hz
Output	max. 50 mA / 12 V DC, short-circuit protected
Type of protection EN 60529	IP54
Temperature range	-30 °C to +75 °C with built-in heating
Weight	ca. 0.5 kg (1 beam)
Colour	anodised, matt black

Performance Features

- Small size for discreet and space-saving installation
- One-man adjustment
- Insensitive to sunlight
- Detection of tamper attempts using external transmitters (including those of the same type of construction)
- Detection of faults
- First alarm memory
- Adjustable alarm response time of outdoor system
- Arming/disarming
- Walk test (functional test), reset after sabotage
- Undervoltage alarm
- Disqualification in the case of heavy rain, snowfall or fog (adjustable time constant 3 to 60 sec.)
- Including integrated heating

033084 **IRS 509 O light barrier outside, 22 cm high, 1 beam**

Technical Data

Dimensions (W x H x D)	40 x 220 x 40 mm

033085 **IRS 509 O light barrier outside, 100 cm high, 3 beams**

Technical Data

Dimensions (W x H x D)	40 x 1000 x 40 mm

033086 **IRS 509 O light barrier outside, 150 cm high, 4 beams**

Technical Data	
Dimensions (W x H x D)	40 x 1500 x 40 mm

033087 **IRS 509 O light barrier outside, 200 cm high, 6 beams**

Technical Data	
Dimensions (W x H x D)	40 x 2000 x 40 mm

Accessories

033090 **Adjusting device including LED and adapter cable**

Suitable for indoors and outdoors.

033095 **Square profiled mast, black, for setting in concrete**

033096 **Square profiled mast, black, including plate**

Alarm contacts

- IDENTLOC
- Magnetic contacts
- Mechanical contacts
- Glass breakage detector
- Seismic detector
- Special detector

Performance Features

- Inductive transmission system = no cable link between the fixed and the moving part
- Sensors as surface mounting version or for concealed mounting (slimline)
- For use in multiple locking
- Tamper-proof
- Low mounting outlay

Typical applications:

- Monitoring of opening of windows and doors
- Lock monitoring of window and door handles
- Monitoring for glass breakage of windows and doors by passive glass breakage sensors or alarm glass adapters
- Presence control of objects (e.g. valuable works of art)

The IDENTLOC system is used for peripheral monitoring of buildings and/or presence control of objects.

The transmission of energy and data between the fixed part (transmission unit) and the moving part (sensor) takes place by induction. Each sensor contains an individual code carrier. The evaluating unit will memorise these codes during startup (teach-in mode) in a non-volatile memory.

In standard operation, the evaluating unit will permanently check these codes for presence and correctness. If a code is missing or wrong, a message is sent to the control panel.

In combination with the transmitter unit, each code carrier from the IDENT-KEY product series can be used, resulting in versatile applications.

Evaluating units

032210.17 **IDENTLOC evaluating unit, conventional**

Performance Features

- Transmission and control function:
  - Disarmed input
  - Reset function: Reset input
  - First alarm detection available
  - Alarm: potential-free relay contact
  - Tamper: direct cover contact

VdS **Approval** **G199014 (IDT), Class C; VSÖ W 070427/25 E**

Conventional connection technology.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	Evaluating unit < 9 mA; 5.5 mA for each sensor; 3 mA for each LED
Contact load	relay contact (1 x changeover) 15 V / 0.2 A; 15 V/0.2 A tamper contact (cover contact)
Sensor connections	4 IDENTLOC transmission unit; 1 EOL detector zone
Type of protection EN 60529	Evaluating unit IP40; Sensors IP67
Environmental class as per VdS	Evaluating unit II; Sensors III
Operating temperature range	Evaluating unit -5 °C to 45 °C; Sensors -25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	traffic white, similar to RAL 9016

In standard operation, only the Total LED must be lit (after being triggered).
All cables may be shortened but not lengthened.
The type of protection only applies if the moisture protection of the sensors was carried out correctly.

032211.17 IDENTLOC evaluating unit, BUS-2 / BUS-1

Approval G199018 (IDT), Class C

BUS-1 connection technology can be selected via DIP switch.
On BUS-2 operation as IDENTLOC or 5-input module.
The expanded teach-in mode detects wrong installations of the sensor as early as during mounting, even without intrusion detection control panel.

Performance Features

- Operation on BUS-2 as IDENTLOC
  - Glass breakage sensor-function can be disactivated
  - Run "Teaching mode" from control panel
  - Firmware update via BUS-2
- Operation on BUS-2 as 5-input module (compatibility mode)
- Operation on BUS-1 as "Logic detector" (1-Address mode or 5-Address mode)
- Transmission and control functions:
  - Disarmed
  - Reset function
  - Alarm
  - Tamper
- Expanded teach-in and commissioning mode

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	Evaluating unit <12 mA; <3 mA for each sensor; <1.3 mA for each LED
Contact load	relay contact (1 x change-over) 15 V / 0.2 A; 15 V / 0.2 A tamper contact (cover contact)
Sensor connections	4 IDENTLOC-transmission unit; 1 EOL detector zone
Type of protection EN 60529	Evaluating unit IP40; Sensors IP67
Environmental class as per VdS	Evaluating unit II; Sensors III
Operating temperature range	Evaluating unit -5 °C to 45 °C; Sensors -25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	traffic white, similar to RAL 9016

In standard operation, only the Total LED must be lit (after being triggered).
All cables may be shortened but not lengthened.
The type of protection only applies if the moisture protection of the sensors was carried out correctly.

Accessories:

032215.17 IDENTLOC flushmount installation kit

Transmission unit

032220.17 IDENTLOC transmission unit

Approval in connection with IDENTLOC sensors

Transmission unit, mounted to the fixed part. (Required for each IDENTLOC sensor)

Technical Data

Transmission range	transmission unit - sensor max. 10 mm
Cable length	6 m
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	traffic white, similar to RAL 9016

Accessories:

Fits:

032221.17 IDENTLOC opening sensor
032222.17 IDENTLOC opening sensor, including cable
032230.17 IDENTLOC glass breakage sensor
032223.17 IDENTLOC Alarmglassensor

Sensors

032221.17 IDENTLOC opening sensor

Approval **G199015 (IDT), Class C; VSÖ W 070427/23 E**

Presence or opening monitoring

Technical Data

Transmission range	transmission unit - sensor: max. 10 mm
Type of protection EN 60529	IP67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	traffic white, similar to RAL 9016

032222.17 IDENTLOC opening sensor, including cable

Approval **G199015 (IDT), Class C; VSÖ W 070427/23 E**

Opening sensor with window handle lock monitoring

Technical Data

Transmission range	transmission unit - sensor: max. 10 mm
Cable length	2.50 m
Type of protection EN 60529	IP67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	traffic white, similar to RAL 9016

032230.17 IDENTLOC glass breakage sensor

Approval **G199509 (IDT), Class B**

Opening monitoring and monitoring for glass breakage. Suitable for windows or doors with glass insert.

Technical Data

Transmission range	transmission unit - sensor: max. 10 mm
Detection radius	2 m
Cable length	25 cm
Type of protection EN 60529	IP67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	traffic white, similar to RAL 9016

032223.17 IDENTLOC Alarm glass sensor with 4-pole socket

Approval **G199016 (IDT), Class C**

Opening monitoring and monitoring for glass breakage. Suitable for windows or doors with alarm glass insert (wire insert or alarm spider).

Technical Data

Transmission range	transmission unit - sensor: max. 10 mm
Cable length	25 cm
Type of protection EN 60529	IP67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	traffic white, similar to RAL 9016

IDENTLOC slimline sensors

Performance Features

- For use with almost all locks with multiple locking
- No replacement of original fittings necessary
- The sensor can already be mounted at the window or door manufacturer's or also later on without any problems.

The compact and flat style of the slimline family allows a concealed mounting of the sensors in the gap between frame and window leaf or door leaf.

(If the gap is not wide enough, transmitter and sensor can be embedded).For the opening and lock monitoring of windows or doors with multiple locking and concealed push rod, a special locking sensor is available. The sensor is mounted to the push rod of the lock.

A transmission between transmitter and sensor is only possible when the window or door is closed and the handle is locked.

Operation in metal profiles (e.g. aluminium frame) is possible.

slimline sensor series:
Transmission unit and sensors

Mounting example

Mounting example

032235.17 IDENTLOC slimline transmission unit

Approval **same as the corresponding sensor**

Transmission unit, mounted to the fixed part.
(Required for each Slimline sensor counter unit).

Technical Data

Transmission range	transmission - sensor: 2 mm, max. 10 mm
Type of protection EN 60529	IP67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Cable length	6 m
Dimensions (W x H x D)	39 x 14 x 5 mm
Colour	traffic white, similar to RAL 9016

032236.17 IDENTLOC slimline locking sensor

Approval **G101073 (IDT), Class C; VSÖ W 070427/22 E**

Opening and lock monitoring of windows and doors with multiple locks and concealed push rod.

Technical Data

Transmission range	transmission - sensor: 2 mm, max. 10 mm
Type of protection EN 60529	IP67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Colour	traffic white, similar to RAL 9016

032237.17 IDENTLOC Slimline opening sensor

Approval **G101074 (IDT), Class C; VSÖ W 070427/20 E**

Presence or opening monitoring. Opening and lock monitoring of windows and doors with multiple locks and exposed push rod.

Technical Data

Transmission range	transmission - sensor: 2 mm, max. 10 mm
Type of protection EN 60529	IP67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Cable length	6 m
Dimensions (L x W x H)	39 x 14 x 5 mm
Colour	traffic white, similar to RAL 9016

032238.17 IDENTLOC Slimline glass breakage sensor

Approval **G101519 (IDT), Class B; VSÖ GS-H 070427/19 E**

Opening monitoring and monitoring for glass breakage. Suitable for windows or doors with glass insert.

Technical Data

Transmission range	transmission - sensor: 2 mm, max. 10 mm
Type of protection EN 60529	IP67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Detection radius	2 m
Cable length	25 cm
Dimensions (W x H x D)	39 x 14 x 5 mm
Colour	traffic white, similar to RAL 9016

032242.17 IDENTLOC alarm glass sensor, slimline with socket

Approval **G101075 (IDT), Class C**

Opening monitoring and monitoring for glass breakage. Suitable for windows or doors with alarm glass insert (wire insert or alarm spider).

Technical Data

Transmission range	transmission - sensor: 2 mm, max. 10 mm
Type of protection EN 60529	IP67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Cable length	25 cm
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	traffic white, similar to RAL 9016

Operation in metal profiles (e.g. aluminium frame) is possible.

Cable is not soldered and sensor not casted.

Accessories

032215.17 IDENTLOC flush mounting kit

For IDENTLOC evaluating units, consisting of flush mounted housing and cover. The flush mounting kit is an easy way of flush mounting the IDENTLOC evaluating units. “Total display” LED is visible from the outside through a small bore in the cover.

Technical Data

Colour	traffic white, similar to RAL 9016

032232 IDENTLOC cable for window handle lock monitoring

For Art. Nos. 032230.17.

Connecting this cable to the transmission unit allows you to monitor the locks of suitably equipped window/door handles or the like.

Accessories:

032267	Glass/metal gluing set Loctite 317, glue 24 ml, activator 150 ml
032268	Gluing gauge for adjusting and gluing glass breakage sensors
032256.01	Sensor tester for passive glass breakage sensors
032266	Contact spray for improving the acoustic coupling between sensor tester and glass pane.
030810.17	Surface-mounted base for height adjustment, 12 per packaging unit in different heights for IDENTLOC sensors
030110.16	Surface-mounted base for slimline sensors, 12 per packaging unit

Planning examples

The magnetic contact consists of the Reed contact and the permanent magnet. In turn, the reed contact consists of the plastic housing with the built-in reed switch and the connecting cable. The reed switch itself is embedded in a dust- and water-proof glass tube and is actuated from outside by the permanent magnet resp. its magnetic field.

Configuration types:

Universal reed contact: In a plastic housing, suitable for flush mounting in wooden windows and wooden doors. Includes surface mounted housing (option) and spacer plates (option), also suitable for mounting on metal doors. Switching distance approx. 10 mm.

Recessed reed contact: In a plastic housing, suitable for flush mounting in wooden windows and wooden doors. Switching distance approx. 10 mm.

Flat reed contact: In a plastic housing, suitable for surface mounting on windows and doors made of aluminium or wooden profile.

Switching distance approx. 10 mm.

Block type reed contact: In a plastic housing, heavy-duty version suitable for surface mounting in doors, sliding doors and windows for extreme applications of large switching distance. If suitably supported by a surface-mounted base, also for use on metal doors. Mounting in wooden doors and wooden windows. Switching distance approx. 20 mm.

Round reed contact: In a plastic housing, suitable for flush mounting in wooden windows and wooden doors. Includes surface mounted housing (option) and spacer plates (option) or steel mounting kit (option), also suitable for mounting on metal doors. Switching distance approx. 5 mm.

Connection types:

Reed contact “N” without bridging protection with 2-wire connection. Contacts can be connected to any closed-circuit current detector group.

Reed contact “Z” with bridging protection with 4-wire connection. There are 4 connecting wires of the same colour that cannot be distinguished and must be connected in Z-wiring (according to VdS) in a closed-circuit current detector group with terminating resistance in a differential circuit. The Z-wiring signals the bridging of the wires. The marking “Z” is shown by the blue dot mark.

All reed contact connecting cables are suitable for the IDC method of termination.

Technical Data

Contact rating	min 1.5 V DC/1.5 mA; max. 30 V DC/100 mA
Environmental class as per VdS	III
Dimensions (W x H x D)	Recessed reed contact Cl. A/B 60 x 9 x 9 mm; Recessed reed contact Cl. C/Flat reed contact 60 x 11 x 9 mm; Block type reed contact 65 x 13 x 14 mm
Dimensions (ØxD)	Round reed contact with flange 10 x 30 mm; Round reed contact without flange 8.3 x 30 mm; Universal reed contact 8 x 25 mm

“N” and “Z” wiring

VdS Approval Class A

030000.17 Recessed reed contact “N”

VdS **Approval** **G193703 (IDT), Class A; VSÖ P 070427/57 E**

Technical Data

Connection	2-wire
Cable length	6 m
Colour	traffic white, similar to RAL 9016

Magnet.

030001.17 Flat reed contact “N”, white, 6 m

With cross hole attachment.

Technical Data

Connection	2-wire
Cable length	6 m
Colour	traffic white similar to RAL 9016

030002.17 Block type reed contact “N”, white, 6 m

VdS **Approval** **G193705 (IDT), Class A; VSÖ P 070427/55 E**

Technical Data

Connection	2-wire
Cable length	6 m
Colour	traffic white similar to RAL 9016

030010.17 Round reed contact “N”, white, 6 m

VdS **Approval** **G193706 (IDT), Class A**

With flange.

Technical Data

Connection	2-wire
Cable length	6 m
Colour	traffic white similar to RAL 9016

082001.17 Universal reed contact “N”, white, 6 m

VdS **Approval** **G196719 (IDT), Class A**

Technical Data

Connection	2-wire
Cable length	6 m
Colour	traffic white similar to RAL 9016

VdS Approval Class B

030200.17 Recessed reed contact “Z”, white, 6 m

VdS **Approval** G191551 (IDT), Class B; VSÖ G 031210/65 E

Technical Data

Connection	4-wire
Cable length	6 m
Colour	traffic white similar to RAL 9016

030241.16 Recessed reed contact “Z”, brown, 6 m

VdS **Approval** G191551 (IDT), Class B; VSÖ G 031210/65 E

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030201.17 Flat reed contact “Z”, white, 6m

VdS **Approval** G191552 (IDT), Class B; VSÖ G 031210/66 E

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	traffic white similar to RAL 9016

030243.16 Flat reed contact “Z”, brown, 6 m

VdS **Approval** G191552 (IDT), Class B; VSÖ G 031210/66 E

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030202.17 Block type reed contact “Z”, white, 6 m

VdS **Approval** G191554 (IDT), Class B; VSÖ G 031210/67 E

Technical Data

Connection	4-wire
Cable length	6 m
Colour	traffic white similar to RAL 9016

030245.16 Block type reed contact "Z", brown, 6 m

Approval G191554 (IDT), Class B; VSÖ G 031210/67 E

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030211.17 Round reed contact "Z", white, 6 m

Approval G 191553 (IDT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	traffic white similar to RAL 9016

Magnet.

030249.16 Round reed contact "Z", brown, 6 m

Approval G 191553 (IDT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

Magnet.

082003.17 Universal round reed contact "Z", white, 6 m

Approval G 196637 (IDT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	traffic white, similar to RAL 9016

For surface mounting 082402.17 is necessary.

Magnet.

082004.17 Universal reed contact set "Z", white 4 m

Approval G196637 (IDT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	traffic white, similar to RAL 9016

082003.17 universal reed contact, 2 installation housings, 2 spacer plates.

082013.16 Universal reed contact "Z", brown, 6 m

Approval G 196637 (IDT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

For surface mounting 082412 is necessary.

Magnet.

030210.17 Round reed contact "Z", white, 6 m

Approval G191579 (IDT), Class B

With flange.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	traffic white, similar to RAL 9016

030247.16 Round reed contact "Z", brown, 6 m

Approval G191579 (IDT), Class B

With flange.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030100.17 Universal reed contact slimline "Z", white, 6 m

Approval G101528 (IDT), Class B; VSÖ GS-H 070427/54 E

Technical Data

Transmission range	max. 10 mm
Connection	4-wire
Cable length	6 m
Colour	traffic white, similar to RAL 9016

Dimensions (mm)

Installation example:

032245.17 Locking sensor with magnetic contact

Approval **G104043 (IDT), Class C (lock monitoring)**
G104509 (IDT), Class B (opening monitoring)

Opening and lock monitoring of windows and doors with multiple locks and concealed push rod.

If both sensor elements are opposite one another, the field lines of the magnetic unit flow through the contact unit and the Reed contact is closed. This is only the case, as long as the window/door is closed and locked.

If the magnetic unit of the locking bolt is removed from the contact unit via the adapter plate, the contact opens. Connection is made via the 6 m long cable in Z-wiring either directly at a central control unit or at an evaluation unit (depending on the application).

Technical Data

Transmission range	max. 10 mm
Lateral offset	max. 3 mm
Type of protection EN 60529	IP67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Connecting cable	4 x 0.14 mm², length 6 m (moulded)
Colour	traffic-white, similar to RAL 9016

Application example Contact unit

Accessories:

030110.16 Surface mounted base for slimline sensors

030110.16 Surface mounted base for slimline sensors

Technical Data

Colour	purewhite, similar to RAL 9010

12 pieces

Dimensions (mm)

VdS Approval Class C

030270.17 Recessed reed contact "Z", white, 6 m

VdS **Approval** G191013 (IDT), Class C; VSÖ W 070427/52

Technical Data

Connection	4-wire
Cable length	6 m
Colour	traffic white, similar to RAL 9016

Magnet.

030271.16 Recessed reed contact "Z", brown, 6 m

VdS **Approval** G191013 (IDT), Class C; VSÖ W 070427/52

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

Magnet.

030260.17 Flat reed contact "Z", white, 6 m

VdS **Approval** G191014 (IDT), Class C; VSÖ W 070427/53

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	traffic white, similar to RAL 9016

Magnet.

030261.16 Flat reed contact "Z", brown, 6 m

VdS **Approval** G191014 (IDT), Class C; VSÖ W 070427/53

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

Magnet.

030295 Round reed contact with flange

Approval **G103003 (IDT), Class C; VSÖ W 070427/51**

This tamper-proof round reed contact is suitable for the opening monitoring of windows and doors. The contact and the magnet are built into the frame and leaf face-to-face.

Technical Data

Operating voltage	max. 40 V
Switching voltage	max. 100 V DC
Electric strength	1 sec. 150 V DC
Switching current	max. 0.5 A
Contact rating	max. 10 W
Type of protection EN 60529	IP68
Environmental class as per VdS	III
Operating temperature range	-25 °C to +70 °C
Contact	closer, 1-pole
Housing material	PS, ABS, PA 30 % Glf.
Connecting cable	LIYY 4 x 0.14 mm, ZGL (suitable for ICD method of termination)
Cable length	6 m
Cable diameter	3.2 mm
Dimensions (W x H x D)	8 x 30 mm (Contact); 8 x 30 mm, DYM (Magnet Housing)
Colour	white

Metal mounting requires 030296 or 030297.

1 x Reed contact with moulded connecting cable; 2 x installation flange, white; 2 x installation flange, brown; 4 x fixing screws 2.9 x 9.5 / V2A, DIN 7981.

Dimensions (mm)

Accessories

030800.17 Installation support for recessed reed contacts Class A/B

Suitable as mounting aid for aluminium profiles for embedding or height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Installation depth	12 mm
Colour	traffic white, similar to RAL 9016

030812 Installation support for recessed reed contacts Class A/B

Suitable as mounting aid for aluminium profiles for embedding or height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Installation depth	12 mm
Colour	brown, similar to RAL 8017

030802.17 Installation support for recessed reed contacts, Class C

Suitable as mounting aid for aluminium profiles for embedding or height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Installation depth	14 mm
Colour	traffic white, similar to RAL 9016

030803 Installation support for recessed reed contacts, Class C

Suitable as mounting aid for aluminium profiles for embedding or height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Installation depth	14 mm
Colour	brown, similar to RAL 8017

030810.17 Surface-mounted base for flat reed contacts

Suitable as mounting aid for height compensation.

Technical Data

Colour	traffic white, similar to RAL 9016
Dimensions (L x W x H)	60 x 9 x 5.2 mm

4 pieces of the same height each (5,2 mm, 3,2 mm, 2,2 mm)

030813 **Surface-mounted base for flat reed contacts**

Suitable as mounting aid for height compensation.

Technical Data

Colour	brown, similar to RAL 8017
Dimensions (L x W x H)	60 x 9 x 5.2 mm

12 pieces of different heights

030811.17 **Surface-mounted base for block type reed contacts**

Suitable as mounting aid for height compensation.

Technical Data

Colour	traffic white, similar to RAL 9016

6 pieces of the same height (4 mm)

030814 **Surface-mounted base for block type reed contacts**

Suitable as mounting aid for height compensation.

Technical Data

Colour	brown, similar to RAL 8017

6 pieces of the same height (4 mm)

030801.17 **Installation support for round reed contacts with flange**

Suitable as mounting aid for hollow profiles for height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Colour	traffic white, similar to RAL 9016

030815 **Installation support for round reed contacts with flange**

Suitable as mounting aid for hollow profiles for height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Colour	brown, similar to RAL 8017

082402.17 **Surface mounted housing for universal reed contacts**

Technical Data

Colour	traffic white, similar to RAL 9016

10 pieces

082412 **Surface mounted housing for universal reed contacts**

Technical Data

Colour	brown, similar to RAL 8017

10 pieces

082403.17 **Spacer plates for surface mounted housing**

Technical Data

Colour	traffic white, similar to RAL 9016

10 pieces

082413 **Spacer plates for surface mounted housing**

Technical Data

Colour	brown, similar to RAL 8017

10 pieces

030296 **Steel mounting kit, white**

The steel mounting kit is used as mounting component for mounting round reed contacts in ferromagnetic materials, such as steel. The kit consists of one mounting flange each for the round reed contact and for the magnet. The magnet has already been glued into the housing.

Technical Data

Colour	trafficwhite, similar to RAL 9016

030297 **Steel mounting kit, brown**

The steel mounting kit is used as mounting component for mounting round reed contacts in ferromagnetic materials, such as steel. The kit consists of one mounting flange each for the round reed contact and for the magnet. The magnet has already been glued into the housing.

Technical Data

Colour	brown, similar to RAL 8017

019101 Blocking bolt for normal doors/windows

Technical Data

Opening pressure	35 N corresponds to 3.5 kp
Material bolt	brass
Material housing	brass, nickel-plated

Dimensions (mm)

019103 Blocking bolt for heavy doors/windows

VdS **Approval** **G196039 (IDT), Class C**

Technical Data

Opening pressure	150 N corresponds to 15 kp
Material housing	die-cast zinc, hammer enamelled
Material bolt	steel, nickel-plated

Dimensions (mm)

019105 Blocking bolt with adjusting option

VdS **Approval** **G196040 (IDT), Class C**

For use in combination with the surface mounting kit 019106.

Technical Data

Opening pressure	35 N corresponds to 3.5 kp
Material	Bolts / Print plate / Housing: brass, nickel-plated

Counter plate including 2 fixing screws and counternut.

Dimensions (mm)

019106 Surface mounting kit

For fixing the setting for blocking bolt 019105.

Technical Data

Material	brass, nickel-plated

Mounting plate and counternut.

Dimensions (mm)

031065 Sliding door contact in plastic housing

Approval G196648 (IDT), Class B

Technical Data

Switching voltage	100 V DC max.
Electric strength	150 V DC (1 sec)
Max. actuating direct current	0.5 A
Contact load	10 W
Temperature range	-25 °C to +70 °C
Type of protection EN 60529	IP68
Environmental class as per VdS	III (VdS 2110)
Clear actuation zone with magnet type	100 51 MKS / 45 mm
Cable length	2 m (Standard LIYY 4 x 0.14 mm²)
Protective tube	stainless steel 0.5 m
Housing material	Polyamide GF, grey
Dimensions contact housing (W x H x D)	159 x 19 x 40 mm
Dimensions magnet housing (W x H x D)	100 x 40 x 35 mm

031066 Sliding door contact in plastic housing

Approval G196066 (IDT), Class C

Technical Data

Switching voltage	max. 100 V DC
Electric strength	150 V DC 1 sec.
Max. actuating direct current	0.5 A
Contact load	10 W
Type of protection EN 60529	IP68
Environmental class as per VdS	III (VdS 2110)
Clear actuation zone with magnet type	100 53 MKS / 27 mm
Cable length	2 m (LIYY 4 x 0.14 mm²)
Protective tube	stainless steel 0.5 m
Housing material	Polyamid GF, grey
Dimensions contact housing (W x H x D)	159 x 19 x 40 mm
Dimensions magnet housing (W x H x D)	100 x 40 x 35 mm

031067 Sliding door contact in aluminium housing

Approval G191525 (IDT), Class B, G 031210/73 E

Technical Data

Switching voltage	max. 200 V
Electric strength	250 V 1 sec.
Max. actuating direct current	0.5 A
Contact load	10 W
Type of protection EN 60529	IP68
Environmental class as per VdS	III (VdS 2110)
Clear actuation zone with magnet type	100 51 MKS / 50 mm
Cable length	2 m (LIYY 4 x 0.14 mm²)
Protective tube	Steel galvanized, PVC covered, 0.5 m
Housing material	Aluminium, grey
Dimensions contact housing (W x H x D)	230 x 13 x 45 mm
Dimensions magnet housing (W x H x D)	100 x 40 x 35 mm

031068 Terminal box

Terminal box for sliding door contacts 031065, 031066 and 031067.

Technical Data

Dimensions (W x H x D)	100 x 60 x 25 mm

1 distributor; 4 cable binders; 2 screws; 1 connection to the metal tube, diameter 9 mm; 1 connection to the metal tube, diameter 8 mm; 4 screw-type covers; 2 VdS stickers; 2 dowels; 2 stickers for terminal allocation.

The cone, pine and micro switches are switches provided with a snap-action switching mechanism.

This allows maximum contact safety. The contacts are embedded in the frame.

Technical Data

Contact load min.	1,5 V DC / 10 µA
Contact load max.	30 V DC / 100 mA

031000.17 Cone contact

VdS **Approval** **G17207 (EMT), Class C**

With alternating contact.

Technical Data

Cable length	10 cm
Dimensions (W x H x D x Ø)	23 x 42 x 25 x 20 mm
Colour	traffic white, similar to RAL 9016

Dimensional drawing (mm)

031001 Pin contact

VdS **Approval** **G17208 (IDT), Class C**

With alternating contact.

Technical Data

Cable length	10 cm
Dimensions (W x H x D x Ø)	15 x 28 x 28 x 12 mm
Colour	grey-white, similar to RAL 9002

Dimensional drawing (mm)

031030 Micro contact with spring lever

In plastic housing containing the alternating contact.

Technical Data

Dimensions (W x H x D)	12 x 38 x 16 mm

031220 Spring contact

For use in garages, hall doors, coverings of light shafts, and the like, where large positional and bearing tolerances are observed. The spring rod is mobile on all sides and waterproof.

Technical Data

Rod length	150 mm
Dimensions (W x H x D)	45 x 70 x 30 mm

Electro-mechanical contacts provided with snap-action switching mechanism used for lock monitoring of doors. They are embedded inaccessibly in the striking plate of the door frame and are actuated by the lock bolt when the door is closed.

These bolt switching contacts are distinguished by a particularly low mounting depth and an adjustable switching point.

The mounting aid included in the delivery, which can be used as drilling template and as handle during mounting, makes for easy mounting.

Technical Data

Maximum switching capacity	30 V DC / 100 mA
Minimum switching capacity	1,5 V DC / 10 µA (ohmic load)
Type of protection EN 60529	with soldered connection interior IP 67, connections IP 00; with moulded cable IP 67
Operating temperature range	-40 °C to +70 °C

Description and dimensions

Dimensions (mm)

VdS Class C

031308 Bolt switching contact

VdS **Approval** **G100024 (IDT), Class C; VSÖ W 070427/60**

With soldering connection.

Not suitable for outer doors.

031309.06 Bolt switching contact

VdS **Approval** **G100023 (IDT), Class C**

Not suitable for outer doors.

With solidly mounted connection cable, 6m.

031300 Bolt switching contact in zinc die-cast housing

Heavy-duty, particularly stable design.

Technical Data

Maximum switching capacity	42 V AC / 1.5 A
Minimum switching capacity	12 V DC / 100 mA (ohmic load)
Cable length	4 m
Backset	max. 15 mm
Switching way	ca. 4 mm
Dimensions (W x H x D)	18 x 94 x 28 mm
Case	18 x 53 (66) mm

With 3-wire connecting cable.

Dimensions (mm)

031311 Mounting plate

If the bolt switching contact has to be set higher in the presence of large recesses, the mounting plate can serve as extension.

5 pieces

Dimensions (mm)

031102 Trip wire switch with cover contact

VdS **Approval** **G17214 (IDT), Class C**

For use, for example, in dormer windows, ventilation elements, emergency exits, showcases, etc. that are not opened, but must be monitored, or as trip hazard. The trip wire contact, due to the built-in reed contact, works both on traction and cord breakage.

Includes change-over contact for Z wiring.

Technical Data

Max. switching capacity	max. 30 V DC
Max. switching current	max. 100 mA DC (resistive load)
Dimensions (W x H x D)	30 x 90 x 15 mm
Colour	greywhite, similar to RAL 9002

Mounting example

031125 Mechanical kit including turnbuckle and suspension hook

031125.03 Guide roller for angled mounting

031125.04 Guide roller for linear mounting

031110 Rope 100 meters

V2A, stainless wire, twisted.

Technical Data

Minimum break resistance	100 N
Dimensions (Ø)	0.33 mm

The current transmitters are suitable for specific requirements in which a wiring layout between rigid and mobile parts is required. This is required, for example, for securing revolving doors or extending the wiring to monitoring sensors. The cone-shaped, hard-gold plated contacts allow a vertical as well as a horizontal approach with maximum contact safety. The tappet contacts are available as surface mounted and flush mounted version.

Technical Data

Max. switching capacity	max. 30 V DC
Max. switching current	max. 100 mA
Dimensions (W x H x D)	f.m. 20 x 86 x 22 mm; s.m. 24 x 76 x 15 mm

031204.17 Recessed tappet contact, 4-pin, white

VdS **Approval** **G176142 (IDT), Class C; VSÖ W 070427/50**

Technical Data

Max. switching capacity	max. 30 V DC
Max. switching current	max. 100 mA
Dimensions (W x H x D)	f.m. 20 x 86 x 22 mm; s.m. 24 x 76 x 15 mm
Colour	trafficwhite, similar to RAL 9016

Dimensions (mm)

031207.17 Screw-on tappet contact, 4-pin, white

VdS **Approval** **G176145 (IDT), Class C; VSÖ W 031210/77 E**

Technical Data

Max. switching capacity	max. 30 V DC
Max. switching current	max. 100 mA
Dimensions (W x H x D)	f.m. 20 x 86 x 22 mm; s.m. 24 x 76 x 15 mm
Colour	trafficwhite, similar to RAL 9016

Dimensions (mm)

031208.17 Surface mounted base for screw-on tappet contact, white

Technical Data

Colour	traffic white, similar to RAL 9016

1 set = 3 pieces 2 mm, 3 mm and 5 mm

031203 **Recessed tappet contact, 4-pin, brown**

VdS **Approval** **G176142 (IDT), Class C; VSÖ W 070427/50**

Technical Data

Max. switching capacity	max. 30 V DC
Max. switching current	max. 100 mA
Dimensions (W x H x D)	f.m. 20 x 86 x 22 mm; s.m. 24 x 76 x 15 mm
Colour	brown

Dimensions (mm)

032025 Self-adhesive copper foil

The foil is placed on glass panes for monitoring. The strong adhesion guarantees that any glass breakage will separate the foil. This will interrupt the closed circuit and trigger an alarm. Walls and doors can be monitored in the same manner.

Technical Data

Width	10 mm
Length	50 m

032000 Foil connecting terminal

VdS **Approval** **G102526 (IDT), Class B**

Technical Data

Dimensions (W x H x D)	22 x 28 x 8 mm

031580 Alarm wall paper

VdS **Approval** **G195022 (IDT), Class C**

For optimum area monitoring of walls and ceilings. The wall paper consists of 2 layers of paper in which are embedded 6 parallel copper wires.

Technical Data

Back	95 g/m² heavy-weight, wood containing paper
Front	120 g/m² heavy-weight, high grade duplex paper with a wax-like coating
Alarm wire	Cu, ø 0.3 mm, enamelled
Wire resistor	0.25 Ohm per m alarm wire 1.5 Ohm for each wallpaper strip ca. 2.8 Ohm for each m² wallpaper
Wire distance	ca. 88 mm
Dimensions (L x W)	10.5 x 0.53 m

031581 Wall paper terminal strip

With cover contact.

Technical Data

Alarm contact	2 A / 30 V DC
Material housing	PVC
Material connector block	Hardboard
Dimensions (L x W x H)	530 x 22 x 20 mm cover strip, U-profile, 1.5 mm
Dimensions (L x W x H)	530 x 22 x 20 mm cover strip, U-profile, 1.5 mm

Each length of wallpaper requires 2 pieces.

Acoustic glass breakage sensor DETEKT 1000

DETEKT 1000 is an acoustic glass breakage detector. It monitors windows for break-through, without the detector and the glass pane to be monitored being in direct contact.

Its particular performance feature consists in being able to monitor several windows using a single detector unit. Transom windows and windows consisting of several segments, crown glass and sliding windows are very complicated to monitor for glass breakage by the conventional method.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption in no-load operation	max. 3.6 mA (12 V)
Current consumption alarm	max. 5 mA (12 V)
Environmental class as per VdS	II
Type of protection EN 60529	IP30
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Time commissioning	max. 10 Sek.
Alarm duration	impulse 1 sec. to 6.2 sec. (typ. 2.5 sec.)
Monitored glass area	0.25 m² to 18 m²
Monitored room size	20 m³ to 250 m³
Detection angle	180°
Housing	ABS
Dimensions (W x H x D)	73 x 97 x 43 mm
Weight	max. 150 g

Corner mounting adapter

Application example of the monitored areas

032420.17 Acoustic glass breakage sensor DETEKT 1000 BUS-1

In plastic housing with BUS-1 connection technology. DIP switch for programming the BUS-1 user address; slide switch for controlling the detector LED function.

Technical Data

Colour	traffic white, similar to RAL 9016

Checking requires the checking device 032208. Please do not order this detector unless you haven´t got a test device.

Accessories

032208 Tester DETEKT 1000

The manual tester is used for testing the DETEKT 1000 glass breakage detector during startup and maintenance.

In this test, a spectrum of frequencies is emitted by the manual tester that corresponds to the detection bands of the acoustic glass breakage detector.

Phase-out date 30.06.2014.

032209 Adapter for manual tester

Required for using the manual tester with detector pull-down rod.

Phase-out date 30.06.2014.

Acoustic glass breakage detector GT2

160435.10 Acoustic glass breakage detector AGB 600

Approval G103505 (IDT), Class B; VSÖ GS-H 070427/47 E

Thanks to its unique signal analysis based on a neuronal network, the acoustic glass breakage sensor AGB 600 is immune to false alarms while providing maximum detection safety.

A comprehensive protection concept makes the detector insensitive to background noise from the surroundings. Its small and inconspicuous housing allows the detector to be mounted to walls and ceilings. The AGB 600 has two settings for precise adjustment to the surroundings.

Performance Features

- Detection radius up to 8.5 m
- Signal analysis is based on a neuronal network
- Detector test by using the glass breakage simulator AGB 600
- Acoustic functional test over the entire range of action
- Optimised for premises single- and multiple-glazed with simple window glass

Technical Data

Operating voltage	8 V DC to 16 V DC
Current consumption	no load 3.2 mA max., alarm 8 mA
Identification of undervoltage	at alarm < 3.5 V
Alarm output	solid-state relais, open at alarm, 30 V DC, 100 mA
Sabotage switch	30 V DC, 100 mA
Type of protection EN 60529	IP31
Environmental class as per VdS	II
Air humidity	< 95% relative humidity, non condensing
Storage temperature	-20 °C to + 60 °C
Operating temperature	-10 °C to + 55 °C
Housing colour	white
Weight	ca. 0,150 kg
Dimensions (W x H x D)	60 x 80 x 23 mm

Application example

160436 Tester for acoustic glass breakage detector AGB 600

Without 9 V block battery.

Passive Glass Breakage

Small, compact passive glass breakage sensor, completely encapsulated and waterproof with polarity reversal protection in SMD technology. It is suitable for securing flat glass panes for break-through monitoring. The frequencies produced by a glass breakage are received, evaluated electronically and identified by a piezo crystal.

In case of alarm, the LED display is activated until it is reset.

Up to max. 20 sensors can be connected per differential detector group in Z wiring.
The sensors are supplied with power via the detector group.

Technical Data

Quiescent current	max. 1 µA
Detection radius	200 cm, irrespective of glass thickness
Type of protection EN 60529	IP67
Environmental class as per VdS	II
Operating temperature range	-10 °C to +70 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (L x W x H)	22 x 22 x 12,2 mm

Not suitable for plastic panes.

Accessories:

032256.01	Sensor tester for passive glass breakage sensors
032265	Silicone glue RTV
032266	Contact spray
032267	Glass/metal gluing set Loctite 317 for VdS installations
055260	Glass/metal gluing set Loctite 319

032272.17 Mini glass breakage sensor “Z”, white, 6 m

VdS **Approval** **G182513 (IDT), Class B**

Technical Data

Cable length	6 m
Cable	suitable for IDC method of termination
Colour	traffic white, similar to RAL 9016

Not suitable for plastic panes.

032274.16 Mini glass breakage sensor “Z”, brown, 6 m

VdS **Approval** **G182513 (IDT), Class B**

Technical Data

Cable length	6 m
Cable	suitable for IDC method of termination
Colour	brown, similar to RAL 8017

Accessories

032268 Glue gauge for passive glass breakage sensor

For adjusting and gluing glass breakage sensors.

032256.01 Sensor tester for passive glass breakage sensors

Includes sensor connections for preliminary test and final inspection.

Phase-out date 30.06.2014.

Active glass breakage sensor

170080 **Active glass breakage sensor MAGS-E**

VdS **Approval** **G193087 (IDT), Class C**

Only suitable for monitoring the following glass types:

- Silicate glass
- Flat glass
- Crystal glass
- Sekurit glass
- Composite safety glass (VSG)
- Wire-reinforced glass, bullet-proof glass
- Insulating glass

with integrated alarm memory and potential-free relay output.

Technical Data

Operating voltage	10.4 to 15 V DC
Rated voltage	12 V DC
Quiescent current #4	< 22 mA at 12 V DC
Starting current	max. 28 mA
Cable length sensor (transmitter / receiver)	6 m, Ø 1.8 mm
Area to be monitored	max. 14 m² to 25 m²
Ambient temperature	
Transmitter / receiver	-40 °C to +85 °C
Evaluating	-10° C to +75 °C
Type of protection EN 60529	IP31
Transmitter / receiver weight	ca. 2 g
Evaluating unit, weight	ca. 450 g
Dimensions transmitter/receiver (Ø x H)	Ø 14 mm, hight 6 mm
Dimensions evaluation device (WxHxD)	110 x 95 x 25 mm
Colour	white, similar to RAL 9003

Not suitable for plastic panes. For specific composite glass panes and bullet-proof glass panes, 2 additional sensor may be required.

The glazing of openings of buildings (e. g. display windows, windows, doors) of jeweller´s and watch maker´s shops must not be monitored if there are jewellery, gemstones, coins, medals, pearls etc. displayed behind them.

2 x sensor (transmitter/receiver) and evaluating unit
(transmitter sensor and receiver sensor are identical).

Functional diagram

Accessories:

032267 Glass/metal gluing set

170084 **Sensor of active glass breakage sensor**

Technical Data

Cable length	6 m
Colour	white, similar to RAL 9003

Not suitable for plastic panes.

1 piece (for an extension, 2 pieces must be ordered)

Accessories

170087 **Gluing gauge for active glass breakage sensor MAGS-E**

170088.10 **Test device GP2 for glass breakage sensor**

Electronic test device for active glass breakage detector MAGS-E or MAGS-S.

9V battery included

032113.17 **Electronic vibration detector**

Performance Features

- Field of application:

  Smooth and structured surfaces with < 1mm of unevenness made of glass/metal, prerequisite: closed medium

VdS **Approval** **G193501 (IDT), Class B**

The detector is suitable for break-through monitoring of glass surfaces in windows and doors. It can be used on glass that cannot be monitored by means of passive glass breakage sensors, such as structural glass, composite, bullet-proof glass, glass with wire insert and glass with plastic liner.

Mass accelerations produced by application of force are received by a piezo element, which converts them into electrically measurable variables.

This detector is distinguished by adjustable sensitivity and high interference immunity.

Per detector group, max. 20 detectors can be connected. The connection takes place in “Z” wiring on differential detector groups.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	6 V to 15 V DC
Current consumption in no-load	< 500 nA (for Unominal, measure time 10 sec.)
Current consumption alarm	< 12 mA (for Unominal)
Humidity class according to DIN 40040	class F
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Reset time	> 1 sec.
Operating time	100 % duty cycle
Installation position	variable
Radius to be monitored	ca. 1.5 m (uniform area)
Weight	50 g
Cable length	ca. 6 m
Dimensions (W x H x D)	38 x 53 x 19 mm
Colour	traffic white, similar to RAL 9016

Accessories:

032265 Glue RTV, silicone glue

Universal Seismic Sensor

Performance Features

- VdS-approval
- Detects attacks to:

  vault doors, ATMs, night depositories, safe vaults, modular safes, coin-operated machines, detached safes, hatches, gates, footlockers and offer objects of massive structure.
- Detects attacks done by:
  - a heavy kick or blow with a heavy hammer or by explosive material
  - repeated knocking caused by hammer and chisel
  - drilling, mechanical cutting, welding torches, hot cutting devices, jet cutting devices
  - water cooled diamond drills
  - hydraulic jacks (SC100 only)
- Sensor with small dimensions:

  The smallest detector available on the market, fits even with restricted space.
- Universally applicable (ATM & safe):

  By simple DIP-switch settings, the SC100 can be used for ATMs as well as for night depositories
- Drilling protection (standard):

  Protects the interior electronnics from tamper
- Large temerature range:

  Enables operation at extreme temerature conditions (-40 °C to + 70 °C)
- Imput for remote controlled sensibility reduction:

  Enables the reduction of the sensibility with use in ATMs to prevent false alarms
- Multi-compatible mounting plate fits to pre-assembled mounting apertures:

  Fits to most of the pre-drilled mounting holes of other seismic detectors which saves time-consuming drilling/cutting of notches.

  Even keeps maintenace easier. Last not least the same mounting plate can be used for installation on concrete as well as for welding on steel.
- Integrated temperature alarm:

  SC100 and SC105 will trigger an alarm if the temperature exceeds 85 °C. Furthermore, SC100 will trigger an alarm if the temperature raises more than 6 °C per minute.

  This causes alarm messages on attacks with tools creating heat like e. g. a termic lance.
- Diagnosis LED:

  Integrated tool for selection of the correct sensivity, doesn´t require time-consuming work with external devices.

The seismic detectors of the SC100 series have been developed for recognition of vibrations generated by intrusions or tries of intrusions into stores for high-value goods.

The SC100 type is a universal seismic detector applicable for vaults, doors, ATMs, safes and other massive structures.

The SC105 type is a special version for mini ATMs or coin-operated machines normally positioned in a noisy environment. It provides the optimal relation of sensitivity and protection of false alarms for the detached objects.

The SC100 series provides different unique functions for reduction of the installation time, e. g.: integrated end of line resistors, embedded diagnostic tool, the smallest dimensions available on the market, universal applicability, even for ATMs.

Technical Data

Power supply	
Supply voltage	8 to 16 V DC, rated operating voltage 12 V DC
Current consumption	Typical 3 mA at 12 V DC
Sensitivity	
Settings possibillities	4 steps by DIP-switch
Reduced Sensitivity Input for maintenace & service	Active low (< 1.5 V DC)
Selection cash dispenser / safe	Via DIP-switch
Delayed actuation	N/A
Alarm outputs	
Semi-conductor relais (change over relais)	30 V DC / 100 mA, typ C
Open collector	During alarm aktive low
Alarm time period	ca. 2.5 sec.
Tamper protection	
Pry open and open contact	30 V DC / 100 mA
Alarm	< 7 V DC (due to low supply voltage)
Temperature alarm	+85 °C ± 5 °C
Internal funktionality alarm	
Inputs:	
- Remote test	Aktive low 1.5 V DC, test duration < 0.5 sec.
- Reduced Sensitivity Input	Aktive low 1.5 V DC; test duration < 0.5 sec.; sensitivity reduction up to 12.5 %
Installation support	Integrated noise and alarm indication for support of the sensitivity adjustment
Environment conditions	
Maximum humidity	95 % relative humidity (non condensing)
Operating temperature range	-40 °C to + 70 °C
Storage temperature range	-50 °C to + 70 °C
Environmental class as per VdS	III
Type of protection EN 60529	IP43
Housing	
Frame and cover	Metal pressure die casting
Weight	0.228 kg
Colour	light grey, similar to RAL7035
Dimensions (H x W x D)	80 x 60 x 21 mm

- Adjustable sensitivity:

  Four different sensitivity settings possible for adaption to the required range and environment conditions.
- Electronics for remote test or via test transmitter:

  Input to run a remote functionality test with SC113 (internal test transmitter) or SC115 (external test transmitter).

  With no test transmitter available, this test can be used for checking the internal electronics.
- Available accessories:

  Mounting plate, drilling protection kit for keyhole, day/night kit, test transmitter (internal), armed cable and test transmitter (external). This selection of accessory parts enables the mounting of the seismic detectors SC100 and SC105 for the most differet applications.
- Low current consumption:

  The seismic detectors stand out due to their low current consumption

SC100 Universal Seismic Sensor

VdS **Approval** **G110004 (IDT), Class C**

Applications:
Vault doors, ATMs, night depositories, safe vaults, modular safes, detached safes, hatches, gates, footlockers.

Technical Data

Recognition radius	5 m

Efficient alarm algorithm, highly sensitive for all known attacks, at the same time impassible against known triggers for false alarms using innovative filters and firmware.

SC105 Universal Seismic Sensor

VdS **Approval** **G110005 (IDT), Class C**

Applications:
Lobby ATMs, filing cabinets, containers, vending machines, ticket machines, gates, footlockers.

Technical Data

Recognition radius	3 m

Efficient alarm algorithm, highly sensitive for all known attacks, at the same time adjusted to the higher noise level of public areas the objects to be secured are located in order to avoid false alarms using innovative filters and firmware.

Assessories for SC100/SC105

SC110 Mounting plate for SC100/SC105

Mounting plate for seismic sensors SC100, 105 and external tester SC115.

Suitable for direct mounting on concrete (screws) or steel (two recesses for welding).

Screw M6x50 and metallic anchor.

SC111 Movable mounting kit for SC10x

During daytime the sensor is fixed on the day plate. For securing the safe door during nighttime, the sensor has to be fixed on the night plate.

When removing while the security panel is armed the tamper contact will cause an alarm. For arming the system, the sensor must be fixed on the night plate.

Mounting plate for sensor mounting.
Day plate, for mounting on a side of the safe.
Night plate, für mounting on the safe door.

SC112 Keyhole protect kit for SC10x

The keyhole protection kit SC112 is used with SC series seismic vibration detectors to prevent unlocking doors during armed installation or loading explosives into the keyhole and at the same time detects intrusion attempts on doors.

The seismic sensor SC100/105 has to be mounted on the keyhole protection kit.

For securing the keyhole, a cover plate can be pulled over the keyhole.

SC113 Internal seismic test transmitter for SC100/SC105

For remote activated test of the seismice sensor.

Will be mounted within seismic sensors SC100/105. Activation of the internal tester will cause a vibration which will activate the seismic sensor.

SC114 Armored cable kit for SC100/SC105, 1,8 m (8 wires)

The cable kit is 1,8m long and is used for mounting SC100/105 in combination with SC111 and SC112.

SC115 External seismic test transmitter

For testing of several seismic sensors within one area (e.g. vault room).

Radius of range: at least 5m at maximum sensitivity of the seismic sensor.

SC116 Wall recess mounting box

The wall recess mounting box can be used to mount the detectors SC100 in the walls of concrete structure, such as vaults.

- Fastening of the assembly box before filling the concrete into the boarding
- Removing of the EPS-block after hardening of the concrete
- Mounting of the SC100 in the box and covering with provided cover plate

SC117 Floor reces mounting box

Floor assembly box for the seismic sensor SC100.

Resilient up to 1000 kg e. g. for transport carts transporting gold

SC118 Spacer for SC112

Spacer for the keyhole protector SC112.

Suitable if a collar is used around the keyhole.

Longer screws included in scope of delivery.

Accessories

032540.10 Remote test system GMYA7-AS

VdS **Approval** **G108092 (IDT) class C**

The GMYA7 remote test system (consisting of the key module GMYA7-S and the display module GMYA7-A) enables a daily function test of one or several seismic detectors independent of an intruder alarm control panel.

Modular hold-up detector

031540 Module for hold-up pushbutton BUS-1

Approval **G194039 (EMT), Class C**

Hold-up pushbutton from the multi-functional operating unit program meet the requirements for hold-up detection systems. The module insert for the hold-up detector can be built in using a surface mounted or flush mounted basic housing.

Technical Data

Operating voltage range	10 V to 15 V DC
Current consumption with buzzer	15 mA
Current consumption at Unenn	max. 500 µA
Contact load	max. 30 V DC/100 mA; min. 1,5 V DC/10 mA (ohmic load)
Environmental class as per VdS	II
Type of protection EN 60529	IP40 (built-in)
Colour of housing	grey white, similar to RAL 9002, plastic
Colour of front plate	grey white, similar to RAL 9002
Material	plastic

Without basic housing.

Accessories:

012600	Surface-mounted basic housing for 1 module
012601	Flush-mounted basic housing for 1 module
012415	Flush-mounted housing for 012601
012612	Dummy module for basic housing
012654	Paper seal, 10 per packaging unit

012654 Paper seal for modular hold-up pushbotton

Hold-up detector, square style

Performance Features

- Pulse triggering, thus alarm repetition possible
- Cover contact for sabotage monitoring
- Triggering identification by paper seal or LED
- Seal: Paper insert
- Surface- and flush-mounting of the connecting cables possible

The hold-up detectors are used with manual control for inconspicuous hold-up alarm actuation. Actuating the pressure plate will trigger the alarm signal at the hold-up and intrusion detection control panel and necessarily destroy the indicator paper at the same time, thus displaying the alarm triggering permanently.

The detector must be placed to allow an inconspicuous alarm actuation and prevent the committer from seeing the triggered LED (in detectors with LED).

The hold-up detectors meet the requirements of the hold-up detection systems for connection to the police or security service.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	6 V to 18 V DC
Alarm contact	Change over contact 30 V DC/100 mA
Tamper switch	NC contact 30 V DC/100 mA
Display	LED with display memory
Current consumption in no-load operation	< 1 µA at 12 V DC
Current consumption alarm	5 mA (LED)
Environmental class as per VdS	II
Type of protection EN 60529	IP30
Material	Plastic ABS
Dimensions (W x H x D)	82 x 82 x 30 mm
Colour	signal white, similar to RAL 9003

031592 Hold-up detector, white, surface mounted, with LED display

VdS **Approval** G196044 (IDT), Class C; VSÖ W 070427/48

Technical Data

Dimensions (W x H x D)	82 x 82 x 30 mm

031593 Hold-up detector, white, flush mounted, with LED display

VdS **Approval** G196044 (IDT), Class C; VSÖ W 070427/48

Technical Data

Installation	standardised f.m. installation box (cavity wall socket for VdS, milled hole Ø 68 mm)
Dimensions (W x H x D)	82 x 82 x 3 mm plastic cover, 88 x 88 x 3 mm plastic adjustment plate

031590 Hold-up detector, white, surface mounted, without LED display

VdS **Approval** G196044 (IDT), Class C; VSÖ W 070427/48

Technical Data

Dimensions (W x H x D)	82 x 82 x 30 mm

031591 Hold-up detector, white, surface mounted, without LED display

VdS **Approval** G196044 (IDT), Class C; VSÖ W 070427/48

Technical Data

Installation	standardised f.m. installation box (cavity wall socket for VdS, milled hole Ø 68 mm)
Dimensions (W x H x D)	82 x 82 x 3 mm plastic cover, 88 x 88 x 3 mm plastic adjustment plate

031594 Paper seal

For hold-up detectors 031590 to 031593.

10 pieces

Hold-up detector, round style

Performance Features

- Pulse triggering, thus alarm repetition possible
- Cover contact for sabotage monitoring
- Triggering identification by paper seal
- Seal: Paper insert
- Housing cap with accidental contact guard available as an option
- Surface- and flush-mounting of the connecting cables possible

Elegant hold-up detector, optionally upgradable to housing cap with cover. The front-mounted cover prevents an accidental actuation.

Thanks to its sophisticated mounting and connection technology, the detector is quickly installed.

Technical Data

Alarm contact	Change over contact 30 V DC/300 mA
Tamper switch	Change over contact 30 V DC/100 mA
Environmental class as per VdS	II
Type of protection EN 60529	IP40
Weight	ca. 70 g
Material	Plastic, ABS
Dimensions (Ø x H)	81 x 31 mm
Colour	grey white resp. grey

031550 **Hold-up detector, grey white, surface mounted**

VdS **Approval** **G195065 (IDT), Class C**

031551 **Closing cover with cap, grey**

031552 **Paper seal**

For hold-up detector 031550.

10 pieces

Hold-up floor alarm bar / Floor mat

031521 Hold-up floor alarm bar, 30 cm long

VdS **Approval** **G186030 (IDT), Class C**

Minimum noise formation, including a mechanical trigger display and protection of the cover.

It can be connected via a soldered terminal strip.

Technical Data

Maximum switching capacity	max. 42 V DC / 100 mA
Weight	300 g
Dimensions (W x H x D)	300 x 30 x 36 mm

Floor mat

031230 Floor mat 720 x 390 mm

The contact floor mats are made of high-quality materials and sealed in a PVC cover. The mats are designed for interior use.

The ground should be even and without burrs, in order to avoid damage to the mats.

Since the mats are not completely protected against ingress of water, they should not be laid in humid environments.

Technical Data

Contact	1 NC contact (normally open) (wires are stripped)
Sabotage switch	for looping the tamper circuit
Switching voltage	max. 30 V DC
Switching current	max. 25 mA (no inductive loads)
Contact actuation	25 N to 105 N for 60 mm²
Dimensions (L x W)	720 x 390 mm

Pressure-insensitive margin (15 mm) for fixing.

031530 Paper money contact standard design

Paper money contact in optoelectronic design in plastic housing.

Technical Data

Quiescent current	15 mA
Alarm current	10 mA
Material	plastic
Colour	pure white, similar to RAL 9010
Dimensions (W x H x D)	38 x 45 x 16 mm

Connecting cable, 4-pin.

160215 Paper money contact GSK 1 E

Approval G184124 (IDT), Class C; VSÖ W 070427/46 E

Electronic parallel sensor according to police emergency call and VdS guidelines.

For manual triggering of a hold-up alarm and inconspicuous mounting in bank note tray.

Unambiguous detection of the triggered paper money contact.

Reset only possible after removing seal.

Technical Data

Operating voltage	12 V DC
Quiescent current	ca. 1.2 mA
Alarm contact	potential-free reed contact (NO switch)
Contact load	28 V / 0,1 A
Dimensions (W x H x D)	55 x 19 x 115 mm
Housing colour	light grey, similar to RAL 7035

Delivery excluding paper money.

019660 Tear-off detector AM115

Approval G 194032, Class C

For monitoring safes, strongrooms, weapons cabinet, machines, showcases, art objects, window grilles, and many more against unauthorised removal.

Technical Data

Dimensions	35 x 25 x 45 mm
Maximum switching capacity	max. 30 V DC, 100 mA
Sabotage switch	max. 30 V DC, 100 mA (NC)

For use in combination with M10 - M16 screws (Art. No. 019661.99).

Consisting of:
Spacer ring, pcb designed as pre-determined break point, tamper lid and 4 m connection cable.

019661.99 Heavy-duty dowel SLD 31 M10/100

For fixing the component (safe) via external thread.
Monitored for removal/tear-off in connection with tear-off detector AM115 (019660).

2 pieces

Water detector

031561.17 Water detector for wall mounting, white

The water detector serves for the detection of water inrushes. The water detector detects the accumulating water via 2 gold-plated electrodes.

The sensor is housed in an enclosed plastic housing. The housing topside contains an LED, which allows the triggering of the detector to be identified.

Performance Features

- Completely enclosed and waterproof
- "Z wiring" allows it to be looped into a differential detector group
- Luminous diode single display guarantees unambiguous identification of a sensor in alarm status
- Connection is insensitive to polarity, owing to a special reverse polarity protection.
- Floor or wall mounting

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	3 V to 15 V DC
Reset voltage	max. 1.3 V DC
Quiescent current at UN	‹20 µA (for rated voltage)
Alarm current (UN)	4 mA (for rated voltage)
Detection at humidity	RF ca. 80 kOhm
Operating temperature range	0 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Connection lead	LIYY 4x 0.14, white, 6 m
Cable	Conductor suited for IDC method of termination
Dimensions (W x H x D)	22 x 28 x 14 mm
Housing colour	traffic white, similar to RAL 9016

The recommended glue is the RTV silicone glue 032265.

The detector can only be connected to inputs with clear function.
Not applicable in conjunction with RF I/O modules (015601, 015601.01).

Compact gas, heat and cold detector

The gas, heat and cold detectors are used for detecting and evaluating physical variables such as hydrocarbon gases (methane and propane) or temperature limit values.

The complete electronics including sensors and buzzer (local alarm actuation) is built into a sturdy plastic housing. The potential-free output allows direct connection to hazard detection control panels and telephone diallers.

057350.99 Compact gas detector for methane

Pre-alarm at 0.5 % of CH4 = 10% of LEL, main alarm at 1% of CH4 = 20% of LEL.

Technical Data

Operating voltage	8.5 V to 14 V DC
Rated voltage	12 V DC
Relay contact rating	24 V DC / 1 A
Quiescent current	max. 200 mA
Alarm current	max. 70 mA
Ambient temperature	0 °C to +60 °C
Storage temperature	-25 °C to +70 °C
Relative humidity	30 % to 70 %
Housing	plastic
Colour	white, similar to RAL 9002
Dimensions (W x H x D)	118 x 118 x 31 mm

The compact methane gas detector must not be placed in locations in which the Employer's Liability Insurance Association prescribes detectors with BAM (Federal Institute for Material Research and Testing) approval.

This detector can only be used for natural gas, not for city gas, since only natural gas contains about 80% of methane (CH4)!

Since methane gas is lighter than air, methane gas detectors must be mounted at the upper wall half.

057351 Compact gas detector for propane

Pre-alarm at 0.21 % of C3 H8 = 10 % of LEL, main alarm at 0.42 % of C3 H8 = 20 % of LEL.

Technical Data

Operating voltage range	8.5 V to 14 V DC
Operating voltage	12 V DC
Floating relay contact	24 V DC / 1 A
Quiescent current	max. 30 mA
Alarm current	max. 70 mA
Operating temperature range	0 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Relative humidity	30% to 70%
Housing	plastic
Colour	white, similar to RAL 9002
Dimensions (W x H x D)	118 x 118 x 31 mm

057355.10 Compact heat detector

Technical Data

Operating voltage	8.5 V to 14 V DC
Rated voltage	12 V DC
Relay contact rating	24 V DC / 1 A
Quiescent current	max. 30 mA
Factory setting	Responds with temperatures > +40 °C
Adjustable from	+20 °C to +50 °C
Ambient temperature	-25 °C to +65 °C
Storage temperature	-25 °C to +65 °C
Relative humidity	< 95 % without thawing
Housing	plastic
Colour	white, similar to RAL 9002
Dimensions (W x H x D)	118 x 118 x 31 mm

057356 Compact cold detector

Technical Data

Operating voltage	8.5 V to 14 V DC
Rated voltage	12 V DC
Relay contact loading capacity	24 V DC / 1 A
Quiescent current	max. 30 mA
Factory setting	is activated at temperature levels under +5° C
Adjustable	-10 °C to +15 °C
Ambient temperature	-25 °C to +65 °C
Storage temperature	-25 °C to +65 °C
Relative humidity	< 95% without condensation
Housing	plastic
Colour	white, similar to RAL 9002
Dimensions (W x H x D)	118 x 118 x 31 mm

Fire detector inserts

062092 Fixed temperature detector IQ8Quad

VdS **Approval** **G109510 (IDT)**

Automatic heat detector with fast semiconductor sensor to guarantee reliable detection of fires with strong heat generation.

Intelligent fire detector with decentralised intelligence, automatic function self-test, alarm and operating data memory, alarm display, soft addressing and separate operating display.

Suitable for:

015620.01	RF-Smoke detector base
062090	Smoke detector base module BUS-2/BUS-1

Technical Data

Rated operating voltage	8 V DC to 42 V DC
Closed Circuit Current	@19 V ca. 40 µA
Operating temperature range	-20 °C to +50 °C
Type of protection EN 60529	IP42
Monitoring height	max. 7.5 m
Area to be monitored	max. 30 m²
Detector specification	EN 54-5 A1S
Response temperature	58 ± 4 °C
Storage temperature range	-25 °C to +75 °C
Weight	ca. 110 g
Dimensions	177 x 49 mm (incl. Base 62 mm)
Housing	ABS, white, similar to RAL 9010

Special marking for heat detector on the light pipe: black ring

062093 Rate-of-rise detector IQ8Quad

VdS **Approval** **G109511 (IDT)**

Automatic heat detector with fast semiconductor sensor to guarantee reliable detection of fires of fast rise in temperature and integrated fixed temperature heat function to detect fires of slow rise in temperature.

Intelligent fire detector with decentralised intelligence, automatic function self-test, alarm and operating data memory, alarm display, soft addressing and separate operating display.

Suitable for:

015620.01	RF-Smoke detector base
062090	Smoke detector base module BUS-2/BUS-1

Technical Data

Rated operating voltage	8 V DC to 42 V DC
Closed Circuit Current	@19 V ca. 40 µA
Operating temperature range	-20 °C to +50 °C
Type of protection EN 60529	IP42
Monitoring height	max. 7.5 m
Area to be monitored	max. 30 m²
Detector specification	EN 54-5 A1
Storage temperature range	-25 °C to +75 °C
Weight	ca. 110 g
Dimensions	177 x 49 mm (incl. Base 62 mm)
Housing	ABS, white, similar to RAL 9010

Special marking for heat detector on the light pipe: black ring

062094 Optical smoke detector IQ8Quad

VdS **Approval** **G109512 (IDT)**

Photoelectronic smoke detector to guarantee reliable early detection of fires.

Intelligent fire detector with decentralised intelligence, automatic function self-test, alarm and operating data memory, alarm display, soft addressing and separate operating display.

Suitable for:

015620.01	RF-Smoke detector base
062090	Smoke detector base module BUS-2/BUS-1

Technical Data

Rated operating voltage	8 V DC to 42 V DC
Closed Circuit Current	@19 V ca. 50 µA
Operating temperature range	-20 °C to +50 °C
Type of protection EN 60529	IP42
Monitoring height	max. 12 m
Area to be monitored	max. 110 m²
Detector specification	EN 54-7
Storage temperature range	-25 °C to +75 °C
Weight	ca. 110 g
Dimensions	177 x 49 mm (incl. Base 62 mm)
Housing	ABS, white, similar to RAL 9010

062095 O²T intelligent detector IQ8Quad

VdS **Approval** **G109513 (IDT)**

Multi sensor detector with two integrated optical smoke sensor having different scattered light angles and additional heat detector sensor evaluation for detection of smouldering fires up to open fires exhibiting uniform response behaviour.

Comparison of the smoke sensor signals for smoke classification and reduction of deceptive alarms, caused, for example, by steam or dust.

Its excellent detection properties also enable the detector to detect the test fires TF1 and TF6 described in the standard. The O²T intelligent detector is also suitable for higher application temperatures of up to +65 °C.

Suitable for:

015620.01	RF-Smoke detector base
062090	Smoke detector base module BUS-2/BUS-1

Technical Data

Rated operating voltage	8 V DC to 42 V DC
Closed Circuit Current	@19V ca. 60 µA
Operating temperature range	-20 °C to +65 °C
Type of protection EN 60529	IP42
Monitoring height	max. 12 m
Area to be monitored	max. 110 m²
Detector specification	EN 54-7/5 B, CEA 4021
Storage temperature range	-25 °C to +75 °C
Weight	ca. 110 g
Dimensions	177 x 49 mm (incl. Base 62 mm)
Housing	ABS, white, similar to RAL 9010

062096 OTG intelligent detector (CO) IQ8Quad

VdS **Approval** **G109514 (IDT)**

Multi sensor detector with integrated smoke, heat and gas sensor (CO) for preventive detection of a fire. Early detection of smouldering fires up to open fires by combined evaluation of scattered light, temperature and gas.

Triggers an alarm when the concentration of the inodorous gas carbon monoxide (CO) becomes life-threatening.

Suitable for:

015620.01	RF-Smoke detector base
062090	Smoke detector base module BUS-2/BUS-1

Technical Data

Rated operating voltage	8 V DC to 42 V DC
Closed Circuit Current	@19 V ca. 65 µA
Operating temperature range	-20 °C to +50 °C
Type of protection EN 60529	IP42
Monitoring height	max. 12 m
Area to be monitored	max. 110 m²
Detector specification	EN 54-7/5 A2, CEA 4021
Storage temperature range	-25 °C to +75 °C
Weight	ca. 110 g
Dimensions	177 x 49 mm (incl. Base 62 mm)
Housing	ABS, white, similar to RAL 9010
CO-alert	ca. 100 ppm

Gas sensors (CO) react mainly to the carbon monoxide (CO) formed in a fire. They exhibit, however, also cross sensitivity to other gases such as hydrogen (H2), acetylene (C2H2) or nitrogen monoxide (NO).

Special marking for gas detector on the light pipe: golden ring.

Notizen

Alarm devices

- Audible alarm devices
- Optic alarm devices
- Optic/Audible alarm devices
- Day alarm

Acoustic alarm devices for external alarms

An important link in the chain of actions of a hazard detection system are the alarming devices. Apart from silent alarming, carried out via telephone diallers, the traditional alarm devices are still performing the important and often decisive function of local alarm. In a case of emergency, seconds can be decisive, this is why an alarm given directly where it happens gives valuable advantages in time.

Apart from the advantage of quick intervention, external alarm devices, solely by being visible, have a deterrent effect, which should not be underestimated.

Acoustic external alarm device are for local alarms, for example in case of break-in, fire or hold-up.

In practice, two alarm devices are mounted at a distance from one another. Upon failure or sabotage on an alarm device, the alarm is still guaranteed.

048700.17 Audible alarm device

Approval G100068 (IDT), Class C

High-loudness alarm device in an attractive plastic housing equipped with tear-off protection, reach-through protection and sabotage monitoring. Its successful design make the alarm device also suitable for use in demanding environments.

Technical Data

Rated operating voltage	12 V DC
Operating voltage	10 V to 15 V DC
Current consumption active	typ. 250 mA
Loudness level	>100 dB(A)
Environmental class as per VdS	IV
Type of protection EN 60529	IP44
Operating temperature range	-25°C to +60°C
Storage temperature range	-25°C to +70°C
Material	plastic
Dimensions (W x H x D)	185 x 210 x 98 mm
Colour	traffic-white, similar to RAL 9016

Adapted to the hazard alarm systems of the HB/MB series. The activation signal is provided by the connected hazard detection control panel.

160456.10 Acoustic compact alarm device P2500

Approval G101104 (IDT), Class C

Impact-resistant plastic housing with sheet metal lining.

3 different types of alarm tones can be programmed.

Technical Data

Operating voltage	12 V DC
Voltage range	10.2 - 13.8 V DC
Current consumption	alarm tone ca. 330 mA (12 V), 200 mA (24 V); alarm tone fire ca. 370 mA (12 V), 210 mA (24 V); alarm tone technical ca. 200 mA (12 V), ca. 110 mA (24 V)
Frequency range	alarm tone ca. 400 - 1200 Hz (increasing 1.6 sec.); alarm tone fire ca. 1200 - 500 Hz (decreasing 1,0 sec.); alarm tone technical ca. 820 Hz (on: 0.75 sec./off: 0.75 sec.)
Loudness level	100 dB(A)/1 m
Sound pressure	105 dB(A)
Environmental class as per VdS	IV
Type of protection EN 60529	IP34
Material	plastic
Weight	1.2 kg
Dimensions (W x H x D)	200 x 110 x 65 mm
Colour	grey-white, similar to RAL 9002

Monitoring resistance 4.7 kOhm integrated.
To be controlled via relay.
No monitoring of pressure chamber loudspeaker.

Installation equipment.

Acoustic alarm devices for internal alarms

Apart from the acoustic external alarm devices, there is also a group of audible alarm devices for internal applications. The offer ranges from the indoor siren for signalling alarms or individual events to the buzzer, for example for signalling switch-on and alarm delay times.

043065.17 Piezo indoor siren, conventional connection

VdS **Approval** **G199021 (IDT), Class C**

Compact modern siren in plastic housing for indoor use. With integrated cover contact for sabotage monitoring.

Surface mounted and flush mounted wiring possible. The volume can be programmed in two steps, the signal type in four.

Activation is effected by applying the operating voltage.

Programmable signal type:

1.) 330 Hz to 1200 Hz increasing sawtooth

2.) 1200 Hz to 500 Hz decreasing sawtooth according to DIN 33404

3.) 660 Hz / 900 Hz switched over 3x per sec.

4.) 500 Hz to 1200 Hz sinusoidal

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 28 V DC
Current consumption at rated voltage	40 mA at 90 dB(A)
Programmable volume	74 dB(A) and 90 dB(A)
Type of protection EN 60529	IP32 (installation with upward radius)
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 87 x 34 mm
Colour	traffic-white, similar to RAL 9016

043066.10 Piezo indoor siren, conventional connection - red

VdS **Approval** **G199021 (IDT), Class C**

Same as article 043065.17, but red.

Technical Data

Colour	red, similar to RAL 3000

043060.17 Piezo indoor siren, BUS-1 connection

VdS **Approval** **G100022 (IDT), Class C; VSÖ W 070627/02 E**

Same as article 043065.17, but activation takes place via BUS-1.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption at 12 V DC BUS 1 in rest	typ. 4 mA
Current consumption at 12 V DC active (volume 90 db(A)	typ. 60 mA
Programmable volume	74 dB(A) and 90 dB(A)
Type of protection EN 60529	IP32 (mounting with upward radius)
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Dimensions (W x H x D)	85 x 87 x 34 mm
Colour	traffic-white, similar to RAL 9016

043050 Module for indoor siren, BUS-1

VdS **Approval** **G194037 (IDT), Class C**

This module allows indoor events to be detected acoustically. The module is equipped with a sabotage contact.

Its specific feature is the volume that can be set to five different levels. Mechanically and optically, this module fits in with the operating and display panels of the product series 012600. The basic housing is not included in the delivery.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Quiescent current	500 µA
Active with 60 dBA	4 mA
Active with 95 dBA	80 mA
Loudness level	60 to 95 dBA
Dimensions (W x H x D)	79 x 115 x 50 mm (with housing 012600)
Colour	grey-white, similar to RAL 9002

Phase-out date 30.07.2014

Accessories:

012600	Surface-mounted basic housing for 1 module
012601	Flush-mounted basic housing for 1 module
012415	Flush-mounted housing for 012601
012612	Dummy module for basic housing

012600 Surface-mounted basic housing for 1 module

The wiring is done directly on the modules to be used by means of soldered/plug-in connections.

Technical Data

Dimensions (W x H x D)	79 x 115 x 50 mm

012601 Flush-mounted basic housing for 1 module

The wiring is done directly on the modules to be used by means of soldered/plug-in connections.

Technical Data

Dimensions frame (W x H x D)	109 x 145 mm
Dimensions (W x H x D)	79 x 115 x 50 mm

012415 Flush-mounted housing for 012601

Technical Data

Material	1 mm thick zinc-coated sheet steel
Dimensions (W x H x D)	96 x 123 x 78 mm

120015 Electronic indoor siren

VdS **Approval** **G197065 (IDT), Class C**

Technical Data

Operating voltage	9 to 14.2 V DC
Frequency	2500 - 3000 Hz
Sound level	104 dB
Current consumption	130 mA / 12 V DC
Dimensions (W x H x D)	155 x 114 x 44 mm
Type of protection EN 60529	IP31
Material	plastic
Housing colour	white

043130 Electronic buzzer

Technical Data

Current consumption at 12 V DC	15 mA
Dimensions (W x H x D)	38 x 25 x 45 mm
Colour	white
Material	plastic

Optic alarm devices for external alarms

The optic alarm devices are used for local external alarm actuation. They may be activated without time limit. The flash lamps for outdoor use are available in different versions. Apart from the versions with red cap, lamps with yellow cap are also available. Also available are accessories for mounting, for example on poles or walls.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at Unenn	< 400 mA
Frequency of flash	ca. 2 Hz
Environmental class as per VdS	IV
Type of protection EN 60529	IP65
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	188 x 142 x 92 mm

042100.17 Optic alarm device, red

VdS **Approval** **G100033 (IDT), Class C**

Attractive alarm device with high signal effect in a plastic housing with sabotage monitoring. Its compact design, combined with its high signal effect, makes this alarm device suitable for universal use.

Technical Data

Colour	traffic-white, similar to RAL 9016
Flash lamp coloured cap	red

042105.17 Optic alarm device, yellow

VdS **Approval** **G100033 (IDT), Class C**

Attractive alarm device with high signal effect in a plastic housing with sabotage monitoring. Its compact design, combined with its high signal effect, makes this alarm device suitable for universal use.

Technical Data

Colour	traffic-white, similar to RAL 9016
Flash lamp coloured cap	yellow

Phase-out date 30.06.2014.

042120 Supporting bracket for alarm devices 042100.17 and 042105.17

Allows suspended or upright mounting of the alarm devices 042100 041100.17 and 042105 / 042105.17.

Mounting options

Optic alarm devices for internal alarms

Indoor blinking lights and parallel indicators have been constructed for indoor use. They are suitable, in particular, for signalling system states and also for pre-alarms and/or internal alarms. Apart from the traditional connection version, some of the alarm devices are also available with BUS connection technology for BUS-1 or BUS-2.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Type of protection EN 60529	IP32 (when mounting with radius on top)
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 87 x 34 mm
Light range	red

042230.17 Indoor blinking light, conventional connection

VdS **Approval** **G199091 (IDT), Class C**

Compact modern blinking light in a plastic housing for indoor use.

With integrated cover contact for sabotage monitoring. Surface mounted and flush mounted wiring possible. Two signal types can be programmed as display mode: Permanent signal or cyclic signal. Activation is effected by applying the operating voltage.

Technical Data

Current consumption stand-by mode	0 mA
Current consumption alarm	10 mA
Colour of housing	traffic-white, similar to RAL 9016

042235.17 Indoor blinking light, BUS-1 connection

VdS **Approval** **G199092 (IDT), Class C**

Compact modern blinking light in a plastic housing for indoor use.

With integrated cover contact for sabotage monitoring. Surface mounted and flush mounted wiring possible. Two signal types can be programmed as display mode: Permanent signal or cyclic signal. They are activated via BUS-1.

Technical Data

Current consumption stand-by mode	typ. 8.5 mA
Current consumption alarm	typ 19 mA
Colour of housing	traffic-white, similar to RAL 9016

044500 Sounder/Flasher with 2 Inputs BUS-2

NEU

Approval **VdS class C (applied)**
EN 50131 Grade 3 (applied)

The Sounder/Flasher with 2 Inputs BUS-2 is intended for extension of a MB-Secure- or MB12/24/48/100/256 plus series intruder panel with control and power supply over BUS-2.

When operated at the MB/MB-Secure panel a sounder and a flasher with individual setting of impulse, brightness, and loudness and two free programmable detector group inputs are available.

Also there is a compatibility mode provided for operation at MB12/24/48/100/256 plus panels as 5-output-module BUS-2. In this case five different operation modes for the sounder/flasher can be programmed, the inputs are not supported in compatibility mode.

Performance Features

- Operation at BUS-2
- Flasher with high-power LEDs
- Piezo sounder
- Impulse, brightness, and loudness individually programmable (only MB-Secure)
- 2 detector group inputs free programmable (only MB-Secure)
- detection range 4k - 14k and 20% / 30% / 40%
- Cover tamper and pry-off-tamper detection
- Firmware update over BUS-2 supported
- For MB12/24/48/100/256 plus this modul can be used on BUS-2 in a compatibility mode as a 5 Output Module (only sounder/flasher)

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	<4 mA (Detector groups open, acoustical/optical signalling device off)
Additional current consumption	0.4 mA per terminated detector group; 50 mA acoustical signalling device; 25 mA optical signalling device
Detector zone inputs	3.3 V DC, stabilized, short-circuit protected; monitoring range 12k1 ±40%
Loudness level of the signal device	up to approx. 100 dB(A) (adjustable)
Type of protection EN 60529	IP40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-15 °C to +70 °C
Dimensions (W x H x D)	110 x 103 x 53 mm
Colour	traffic white (similar to RAL 9016)

048720.17 Compact alarm in a plastic housing

Approval **G100067 (IDT), Class C; VSÖ W 031210/83 E**

Its compact and timeless design, combined with its high signal effect and mounting flexibility, makes this combined alarm device suitable for universal use. Provided with sabotage contact, reach-through protection and tear-off protection, connection module with monitoring circuit for the integrated loudspeaker and the flashing lamp.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	10 V to 15 V DC
Current consumption beacon at UNENN	< 400 mA
Current consumptionat Pressure chamber loudspeaker at UNENN	typ. 250 mA
Frequency of flash	ca. 2 Hz
Loudness level	>100 dB(A)
Environmental class as per VdS	IV
Type of protection EN 60529	IP44
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	185 x 315 x 98 mm
Colour	traffic-white, similar to RAL 9016
Light range	red

For use with intrusion detection control panels of the HB/MB series.

160455.10 Acoustic / Optic compact alarm device P2500

Approval G195078 (IDT), Class C

Impact-resistant plastic housing with sheet metal lining. Activation is effected by applying the operating voltage.

Technical Data

Operating voltage	12 V DC resp. 24 V DC
Voltage range	10.2 - 13.8 V DC resp. 20.4 to 27.6 V DC
Current consumption	alarm signal ca. 330 mA (12 V), 200 mA (24 V); alarm signal fire ca. 370 mA (12 V), 210 mA (24 V); technical alarm signal ca. 200 mA (12 V), ca. 110 mA (24 V)
Frequency	alarm signal ca. 400 - 1200 Hz (increasing 1.6 sec.); alarm signal fire ca. 1200 - 500 Hz (falling 1.0 sec.); technical alarm signal ca. 820 Hz (on: 0.75 sec./off: 0.75 sec.)
Signal flashing lamp	ca. 200 mA (12 V); ca. 135 mA (24 V)
Frequency of flash	ca. 1 Hz (12 V); ca. 1.2 Hz (24 V)
Loudness level	100 dB(A)/1 m
Sound pressure	105 dB(A)
Environmental class as per VdS	IV
Type of protection EN 60529	IP34
Material	plastic
Weight	1.2 kg
Dimensions (W x H x D)	200 x 110 x 65 mm
Colour	grey-white, similar to RAL 9002

Monitoring resistance 4.7 kOhm and 10 kOhm integrated.
Must be controlled via a relay.
No monitoring of pressure chamber loudspeaker.

Installation equipment.

120016 Electronic indoor siren with integrated flashing light

Approval G197066 (IDT), Class C

Technical Data

Operating voltage	9 V DC to 14.2 V DC
Current consumption sirene	130 mA
Current consumption beacon	110 mA
Frequency of flash	1 Hz
Frequency	2500 - 3000 Hz
Sound level	104 dB(A)
Type of protection EN 60529	IP31
Dimensions (W x H x D)	155 x 114 x 44 mm
Housing	plastic
Colour	white

Doorguard - Monitoring of Emergency Exit Doors

Performance Features

- Monitoring of opening of emergency door exits
- Indication of operating state via LED
- Indication of triggering and “Door open” state
- Input for release contact (door contact)
- Input for tamper switch
- Installation possibility of a half cylinder as per DIN 18252
- Alarm signalling device for remote mounting - separate from the operating unit (e.g. above the door)
- Optical alarm signalling device with highperformance LEDs
- Acoustical alarm signalling device with piezo-electronic alarm device
- Resonance-optimized housing for extremely loud radiation of alarm tone on all sides
- Cover and tear-off monitoring of alarm signalling device and operating unit
- External operating input for remote operating module (key-operated switch)
- VdS approval Doorguard for MB panels BUS-2

The comprehensive solution for all applications

The permanent protection of buildings against entry by unauthorized persons as well as the uncontrolled exit of a zone are basically contrary to the legal requirements that demand that it must also be possible to exit a building without hindrance in the event of an emergency.

The Doorguard that is now available on the market is a product that not only fulfils both these requirements but also has an attractive design and is flexible in use.

The units enable simultaneous control and monitoring of the opening of emergency exit doors.

The Doorguard is available in two different versions with varying connection technology:

- Doorguard for MB panels BUS-2

- Doorguard hardwired version

The Doorguard for MB panels BUS-2 is suitable for integrating into BUS-2 networks with connection to an intruder alarm control panel.

The Doorguard hardwired version is intended for self-sufficient applications solely for monitoring emergency exit doors without connection to an IACP.

The units can be easily installed on site. The operating unit and alarm signalling device can be installed either separately or as a combined unit to meet the specific requirements of the building or application.

The door contacts (release contacts) at the doors that require monitoring trigger the alarm. In the event of unauthorized opening of the emergency exit door, an acoustical and optical signal is emitted on site.

Authorized opening

If the emergency exit door requires opening by an authorized person, the monitoring of this door can be deactivated by releasing. This enables authorized persons to enter the building through the door once or several times depending on the programming without triggering a signal.

The release of the emergency exit door is indicated at the operating unit via the green LED “Operating state”. Release is possible directly at the unit via the half cylinder and/or the reader (for IK2 / IK3 ID data carriers) that is integrated in the Doorguard for MB panels BUS-2.

041470 **proX Keyswitch BUS-2**

NEW

VdS **Approval applied**

Operating unit for amok alarm systems and Doorguard system.

The proX Keyswitch has a mechanical key switch and a proX1/proX2 reader integrated. The proX Key switch BUS-2 communicates with the corresponding intrusion detection system via BUS-2. All system data as well as all object-specific programming are realized with the programming software "WINFEM Advanced" or the programming software "IQ PanelControl" of the intruder alarm control panel. Voltage for the proX Key switch is supplied via the BUS-2 connection.

Use in amok alarm systems

The proX Key switch BUS-2 has been specifically designed as an amok alarm signalling device for use in schools, universities and other public buildings, for example. In the event of danger, it should be prompt and easy to trigger an amok alarm to contact emergency services (such as the police) with details such as **"WHERE"** (exact location), **"WHEN"** (time) and **"WHO"** (name of the person who triggered the alarm).

1. It must be so easy and safe to operate the device that it is practically impossible to trigger an alarm due to operating error.
2. All data required for speedy intervention must be transmitted immediately to emergency services (e.g. the police).
3. Triggering of false alarms willfully or accidentally must be prevented as far as possible.

The proX Key switch BUS-2 meets these requirements of the police.

Use in Doorguard systems

The device can be installed on site to monitor the opening of emergency exit doors. In its functionality, the device corresponds to the Doorguard Plus BUS-2, though without an alarm signalling device. Other external acoustical and optical alarm devices can be used if needed.

Recommendation for the usage

Basically, the proX Key switch can be used with data carriers or keys. We strongly recommend the use of data carriers.

Only in that case can the parameter "**WHO?"** be sent.

Performance Features

Use in amok alarm systems:

- Indication of operating state via green LED
- Unique identification when an alarm is triggered:
  - **"WHERE":** e.g. address, building, floor, room number
  - **"WHEN":** exact time at which the alarm was triggered
  - **"WHO":** person who triggered the alarm (possible only when a data carrier is used)
- Installation possibility of a half cylinder as per DIN 18252
- Integrated reader for IK2/proX1 and IK3/proX2 ID data carriers
- Operation via half cylinder or ID data carriers
- Operation at BUS-2 of the 561-MB24 /48 /100 and MB-Secure intruder alarm control panel series
- Programming as integrated BUS-2 user with WINFEM Advanced or IQ PanelControl
- Simple administration of data carriers and authorizations using WINFEM Advanced or IQ PanelControl
- Cover and tear-off monitoring

Use in Doorguard systems

- Monitoring of opening of emergency exit doors
- Indication of operating state via green LED
- Indication of "Activation" and "Door open" state via red LED
- Input for opening contact (door contact)
- Input for opening contact (e.g. door monitoring via latch contact)
- Input for tamper switch
- Input with clearing function for self-storing detectors
- Installation possibility of a half cylinder as per DIN 18252
- Integrated reader for IK2/proX1 and IK3/proX2 ID data carriers
- Operation via half cylinder and/or integrated reader
- External operating input for remote operating module (key-operated switch)
- External acoustical and optical alarm devices can be used

Technical Data

Operating voltage U_b	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption	< 15 mA (mid.)
Detector group voltage	8 V DC
Detector group end-of-line resistor	12k1 ±40%
Detector group for tamper evaluation	12k1 ±40%
Output for acoustical alarm signalling	< 40 mA (active low)
Output for optical alarm signalling	< 40 mA (active low)
Transponder reader	IK2/proX1 and IK3/proX2 ID data carriers
Half cylinder as per DIN 18252	Standard dimension A = 30 mm, A = 35 mm possible
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Type of protection EN 60529	IP40
Dimensions (W x H x D)	110 x 140 x 53 mm
Housing colour	traffic white (similar to RAL 9016)

Required software versions:
The connection of the proX-key switch to an intrusion control panel require the software versions as follows:

Panel software:	as of V11.xx (561-MB24 / MB48 / MB100 (MB100 with index .10)
WINFEM Advanced:	as of V11.xx

Without profile cylinder.

Accessories:

028032 Half cylinder

- Operation at BUS-2 of the 561-MB24/48/100 and MB-Secure intruder alarm control panel series
- Programming as integrated bus user with WINFEM Advanced or IQ PanelControl
- Integration in the room/time zone concept of the intruder alarm control panel
- Cover and tear-off monitoring
- Operating units can be used via the BUS-2 of the intruder alarm control panel as operating and display panels (e.g. Item no. 012542.17) or purely as display panels (e.g. Item no. 012548.17) for deactivating and activating

Number of attachable proX Key switch devices:

561-MB24	16 proX Key switch devices
561-MB48	24 proX Key switch devices
561-MB100 (Index .10)	64 proX Key switch devices
MB-Secure	up to 256 proX Key switch devices

Number of attachable data carriers:

561-MB24	32 Data carriers
561-MB48	128 Data carriers
561-MB100 (Index .10)	1024 Data carriers
MB-Secure	up to 1024 Data carriers

Application example

041450.17 **Doorguard-Plus BUS-2**

Approval **G110068 (IDT), Class C**

System device for monitoring of emergency exit doors. With integrated IJ2/IK3 reader, BUS-2 connection.

The Doorguard-Plus BUS-2 communicates with the corresponding intruder alarm control panel (MB-Secure at 561-MB24/48/100) via the BUS-2. Programming of system data and projects as well as management of authorization data for entering the door is carried out via the programming software of the intruder alarm control panel. Voltage for the Doorguard Plus BUS-2 is supplied via the BUS-2 connection, thus providing an optimum integration solution.

All functions and connections that are required for monitoring emergency exit doors are contained in this unit.

All messages are transmitted via the BUS-2 to the intruder alarm control panel. Release is possible directly at the Doorguard Plus BUS-2 via the half cylinder and/or the integrated reader (for IK2 / IK3 ID data carrier). Remote release (activation/inactivation) is possible via every operating keypad with disabling function and display unit that is connected to the BUS-2 and a graphic user interface.

The total number of Doorguard Plus BUS-2 units that can be used depends on the possible number of switching devices/door controls of the IACP that is being used (16 at MB24, 24 at MB48, 64 at MB100, 256 at MB-Secure). Remote release via the software program package IQ MultiAccess/IQ SystemControl is also possible (at MB 24/48/100).

Performance Features

- Input for door strike contact (e. g. door monitoring via latch contact)
- Input, erasable for self saving sensors
- Integrated reader for IK2/IK3 ID dta carriers
- Operation possible via:
  - Key switch (profile half cylinder)
  - Integrated reader (IK2/IK3)
  - Key switch and integrated reader
  - Operating units of an IACP
- Operation on BUS-2 of the MB-Secure and 561MB-24/48/100 intruder alarm control panel series
- To be programmed as integrated bus user via IQ Panel Control or WINFEM Advanced
- Integrated within the room/time zone model of the intruder alarm control panel
- Use of operating units via BUS-2 of intruder alarm control panels as:
  - Operating and display tableau (e. g. item no. 013000, 013001, 012542.17 or item no. 013002 for switching active and inactive
  - or display tableau (e. g. item no. 013000, 013001 or 012548.17)

Technical Data

Operating unit	
Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption	< 15 mA
Detector group voltage	8 V DC
Detector group end-of-line resistor	12k1 ±40%
Detector group for tamper evaluation	12k1 ±40%
Output for acoustical alarm signalling	< 40 mA (active low)
Output for optical alarm signalling	< 40 mA (active low)
Transponder reader	for IK2- and IK3 data carrier
Half cylinder as per DIN 18252	Dimension A = 30 mm
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Type of protection EN 60529	IP40
Dimensions operating unit (W x H x D)	110 x 140 x 53 mm
Housing colour	traffic-white, similar to RAL 9016
Alarm signaling device	
Operating voltage range	10 V DC to 15 V DC
Current consumption sirene	
Interval tone	< 25 mA
Continuous tone	< 50 mA (only BUS-2 device)
Loudness level	ca. 100 dB(A)
Current consumption beacon	< 25 mA
LED - flash interval	ca. 1.5 Hz
Dimensions alarm signaling device (W x H x D)	110 x 103 x 53 mm

Without half cylinder.

Accessories:

028032 Half cylinder

Application example

041460.17 **Doorguard-Plus conventional**

System device for monitoring of emergency exit doors. Conventional connection technique.

This system unit combines all the functions that enable the self-sufficient monitoring of emergency exit doors.

Contrary to the BUS-2 device, max. 16 Doorguard hardwired versions units can be connected via a proprietary Bus system. A 16-DG disable and display keypad (Item no. 012542.17) or a 16-DG display module (Item no. 012548.17) can be used for remote individual indication of the networked system units as a remote indicating panel (Master/slave operation).

The modules have an optical indicator (2 LEDs) for every connected Doorguard as well as a key (only Item no. 012542.17) for remote release (inactivation/activation).

An acoustical signal (collective alarm) is also emitted when the emergency exit door is opened by an unauthorized person.

Performance Features

- Integrated power saving power supply unit for 230 V AC with low power input
- Operation possible via profile half cylinder and/or via 16-DG blocking and display module
- Stand alone solution for an emergency door
- Master/slave operation for linking of up to 16 door guard plus systems with:
  - one 16-DG blocking and display module (item no. 012542.17) as operating and display tableau
  - or one 16-DG display module (item no. 012548.17) as display tableau

Technical Data

Operating unit	
Mains voltage	230 V AC
Frequency	50 Hz
Power consumption during standby operation in watt	2.1 VA
Detector group voltage	8 V DC
Detector group end-of-line resistor	12k1 ±40%
Detector group for tamper evaluation	12k1 ±40%
Output for acoustical alarm signalling	< 40 mA (active low)
Output for optical alarm signalling	< 40 mA (active low)
Half cylinder as per DIN 18252	Srandard dimension A = 30 mm, A = 35 mm possible
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Type of protection EN 60529	IP40
Dimensions operating unit (W x H x D)	110 x 140 x 53 mm
Housing colour	traffic-white, similar to RAL 9016
Alarm signaling device	
Operating voltage range	9 V DC to 15 V DC
Current consumption sirene	< 25 mA
Loudness level	ca. 100 dB(A)
Current consumption beacon	< 25 mA
Dimensions alarm signaling device (W x H x D)	110 x 103 x 53 mm

Without half cylinder.

Application example

Day alarm detector

041411 **Day alarm BUS-1**

Performance Features

- Monitors the opening of emergency exit doors
- Displays the “Disconnection” operating state by means of a yellow LED
- 2 door contact connections
- Integrated acoustic alarm signalling device (buzzer)
- Housing cover tamper monitored
- Semiconductor outputs for “Alarm” and “Disconnection operating state”
- For use on intrusion detection systems with BUS-1 technology

The day alarm detector is used for monitoring two emergency exit doors or one emergency exit door having two door leaves.

The device can simply be mounted on-site. It is connected via the BUS-1 of a suitable hazard detection system. The criterion for triggering an alarm are the door contacts at the doors to be monitored.

Technical Data

Rated operating voltage	12 V DC (via BUS-1)
Operating voltage range	10.5 V DC to 15 V DC
Current consumption in no-load	15 mA
Current consumption alarm	100 mA
Loudness level of internal buzzer	94 dB(A)
Output switch off	12 V DC / 40 mA
Output external buzzer	12 V DC / 80 mA
Operating temperature range	-5 °C to +50 °C
Storage temperature range	-20 °C to +70 °C
Type of protection EN 60529	IP30
Environmental class as per VdS	II
Dimensions (W x H x D)	200 x 146 x 55 mm

Phase-out date 30.06.2014.

Notizen

Installation material

- Distributors
- Cables and cable accessories
- Relays
- Sealing material
- Housings

Flush-mounted box distributor

Fits standardised switch boxes Ø 58 mm or hollow-wall boxes Ø 68 mm, tamper-proofed plastic cover with screw-on cap and film seal.

Technical Data

Environmental class as per VdS	II (VdS 2110)
Type of protection EN 60529	IP40
Screw hole spacing	60 and 67 mm
Dimensions cover (Ø x D)	84.5 x 2 mm
Colour	pure-white, similar to RAL 9010

050162 Flush-mounted box distributor, soldering technology

VdS **Approval** **G100058 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 22+2-pole
Headroom	ca. 19 mm

050163 Flush-mounted box distributor, IDC method of termination

VdS **Approval** **G100060 (IDT), Class C**

Technical Data

Connecting technology	LSA-plus, 22+2-pole
Wire gauge	0.40 - 0.63 mm
Outside diameter	0.70 - 1.10 mm
Headroom	ca. 22 mm
Occupancy	2 wires for each contact

2 wires having the same structure - solid or lead (lead structure 7 x 0.12 ... 7 x 0.32 mm CuSn) can be connected per contact.

050164 Flush-mounted box distributor, spring terminal technology

VdS **Approval** **G100059 (IDT), Class C**

Technical Data

Connecting technology	LSA-plus, 22+2-pole
Wire gauge	0.40 - 0.63 mm
Outside diameter	0.70 - 1.10 mm
Headroom	ca. 22 mm
Occupancy	2 wires for each contact

2 wires having the same structure - solid or lead can be connected per contact.

050165 Cover for flush-mounted distributor

Technical Data

Material	plastic
Dimensions (W x H x D)	85 x 85 x 5 mm

Fits flush-mounted distributors: 050162, 050163 and 050164.
When this cover is used, the flush-mounted distributors lose their VdS approval.

5 pieces

Modular plastic distributors

A product range that provides suitable components for each application. The variation options including housings and distributor inserts make this distributor product range the ideal instrument of installation technology.

120240 Plastic distributor box VVD 230 (surface mounted)

VdS **Approval** **Class C**

Small distributor box, surface mounted design, for housing one pcb of the dimensions 65 x 72 mm and the 10-pin distributor terminal 382030.

Technical Data

Type of protection EN 60529	IP40
Housing material	ABS
Dimensions (W x H x D)	125 x 125 x 35 mm
Colour	white, similar to RAL 9003

The VdS approval applies in connection with the distributor pcb 382031.

382031 42-pin distributor with cover contact

VdS **Approval** **G103027 (IDT), Class C**

For mounting in housings 788600, 788601, 788650.10, 788651.10, 120240 to 120244.

Technical Data

Connecting technology	soldered terminal, 42-pin
Dimensions (W x D)	65 x 72 mm

The VdS approval applies in connection with the above housings.

050065.17 Surface mounted plastic distributor box

VdS **Approval** **G189103 (IDT), Class C**

For adaption of distributor PCB 050065.10.

Technical Data

Housing material	plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	traffic-white, similar to RAL 9016

050066.17 Flush mounted plastic distributor box

VdS **Approval** **G189103 (IDT), Class C**

For adaption of distributor PCB 050065.10.

Technical Data

Housing material	plastic
Dimensions (W x H x D)	130 x 130 x 31mm
Colour	traffic-white, similar to RAL 9016

050067.17 Flush mounted housing for article 050066.17

VdS **Approval** **G189103 (IDT), Class C**

Technical Data

Housing material	plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	traffic-white, similar to RAL 9016

050065.10 Distributor board containing 23 double soldering tabs and 1 cover contact

VdS **Approval** **G189103 (IDT), Class C**

For integration in distributor boxes 050065.17, 050066, 050066.17.

Small distributors

050000.17 8-pin surface-mounted distributor without cover contact

Technical Data

Connecting technology	solder/solder, 8-pin
Housing material	plastic
Environmental class as per VdS	II
Dimensions (W x H x D)	38 x 84 x 19 mm
Colour	traffic-white, similar to RAL 9016

050002.17 6-pin surface-mounted distributor with cover contact

VdS **Approval** **G193531 (IDT), Class B**

Technical Data

Connecting technology	solder/solder, 6-pin
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	38 x 84 x 19 mm
Colour	traffic-white, similar to RAL 9016

050035.17 Alarm glass terminal box

VdS **Approval** **G186043 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 6-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	38 x 45 x 16 mm
Colour	traffic-white, similar to RAL 9016

This terminal box is suitable especially for connecting alarm glasses. The alarm wires of the glass pane are inserted into the housing from behind.
Cover contact existing.

Plastic distributors

050030 Solder distribution terminal, 16-pin

VdS **Approval** **G193075 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 16-pin
Tamper switch	NOC
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	60 x 45 x 25 mm
Housing colour	white

050025.17 16-pin surface-mounted distributor with cover contact

VdS **Approval** **G195030 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 16-pin
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	70 x 84 x 20 mm
Colour	traffic-white, similar to RAL 9016

160705 Surface mounted plastic distributor, 20-pin

VdS **Approval** **G187002 (IDT), Class C**

Small distributor with cover contact.

Technical Data

Connecting technology	solder/solder, 20-pin
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	85 x 85 x 26 mm
Colour	white

120211 Surface mounted plastic distributor VVD 215, 30-pin

VdS **Approval** **G187055 (IDT), Class C**

Small distributor with cover contact.

Technical Data

Connecting technology	solder/solder, 30-pin
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	85 x 85 x 26 mm
Housing colour	white

120213 Plastic distributor VVD 215K, 30-pin

VdS **Approval** **G187054 (IDT), Class C**

Small distributor with cover contact. With plastic-jacked cable link and fixing piece.

Technical Data

Connecting technology	solder/solder, 30-pin
Length cabel crossover	ca. 300 mm
Dimensions cable transfer (WxHxD)	Ø inside ca. 8 mm; Ø outside ca. 11 mm
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	85 x 85 x 26 mm
Housing colour	white

cable link.

120215 Surface mounted plastic distributor VVD 320, 40-pin

VdS **Approval** **G187003 (IDT), Class C**

Small distributor with cover contact.

Technical Data

Connecting technology	solder/solder, 40-pin
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	150 x 100 x 36 mm
Housing colour	white

120250 Distributor LSA 16 w

VdS **Approval** **G193075 (IDT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

No. of LSA-Plus connections	2 x 8
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	60 x 45 x 25 mm
Housing colour	white

120252 Distributor LSA 32 w

VdS **Approval** **G187002 (IDT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

No. of LSA-Plus connections	2 x 16
Environmental class as per VdS	II
Dimensions (W x H x D)	85 x 85 x 26 mm
Housing colour	white

120253 Distributor LSA 32 b

VdS **Approval** **G187002 (IDT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

No. of LSA-Plus connections	2 x 16
Environmental class as per VdS	II
Dimensions (W x H x D)	85 x 85 x 26 mm
Housing colour	brown

120254 Distributor LSA 64 w

VdS **Approval** **G187003 (IDT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

No. of LSA-Plus connections	2 x 32
Environmental class as per VdS	II
Dimensions (W x H x D)	150 x 100 x 36 mm
Housing colour	white

Metal Distributors

050022 Metal distributor, 44-pin

VdS **Approval** **G199042 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 44-pin
Tamper switch	NOC
Environmental class as per VdS	II
Housing material	Sheet steel, powder-coated
Dimensions (W x H x D)	152 x 105 x 43 mm
Housing colour	pure white, similar to RAL 9010

050023 Metal distributor, 88-pin

VdS **Approval** **G199043 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 88-pin
Tamper switch	NOC
Environmental class as per VdS	II
Housing material	Sheet steel, powder coated
Dimensions (W x H x D)	198 x 152 x 43 mm
Housing colour	pure white, similar to RAL 9010

050024 Metal distributor, 176-pin

VdS **Approval** **G199045 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 176-pin
Tamper switch	NOC
Environmental class as per VdS	II
Housing material	Sheet steel, powder coated
Dimensions (W x H x D)	280 x 199 x 43 mm
Housing colour	pure white, similar to RAL 9010

050020 Distributor, 16-pin

VdS **Approval** **G17358 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 16-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	130 x 130 x 45 mm
Housing colour	grey-white, similar to RAL 9002

050021 Distributor, 32-pin

VdS **Approval** **G17310 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 32-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	215 x 130 x 45 mm
Housing colour	grey-white, similar to RAL 9002

050060 Distributor, 48-pin

VdS **Approval** **G185072 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 48-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	350 x 186 x 60 mm
Housing colour	grey-white, similar to RAL 9002

050034 Distributor, 64-pin

VdS **Approval** **G184086 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 64-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	215 x 215 x 45 mm
Housing colour	grey-white, similar to RAL 9002

050061 Distributor, 96-pin

VdS **Approval** **G185071 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 96-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	350 x 300 x 60 mm
Housing colour	grey-white, similar to RAL 9002

050062 Distributor, 160-pin

VdS **Approval** **G188088 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 160-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	500 x 300 x 60 mm
Housing colour	grey-white, similar to RAL 9002

050019 Distributor block, 16-pin

Technical Data

Connecting technology	solder/solder, 16-pin
Dimensions (W x H x D)	60 x 72 x 19 mm

050095 Plug-in labelling field for distributor block

2 items

160204 Surface mounted distributor VVD 300, 48-pin

Approval **G182038 (IDT), Class C**

Distributor with cover contact, sheet steel housing.

Technical Data

Connecting technology	solder/solder, 48-pin
Environmental class as per VdS	II
Housing	Sheet steel
Dimensions (W x H x D)	155 x 145 x 55 mm
Colour	light-grey, similar to RAL 7032

160206 Surface mounted distributor VVD 400, 84-pin

Approval **G182039 (IDT), Class C**

Distributor with cover contact, sheet steel housing.

Technical Data

Connecting technology	solder/solder, 84-pin
Environmental class as per VdS	II
Housing	Sheet steel
Dimensions (W x H x D)	285 x 155 x 55mm
Colour	light-grey, similar to RAL 7032

160209 Surface-mounted distributor VVD 600

Approval **G182041 (IDT), Class C**

This model is delivered as kit (cover contact already mounted in the distributor).

Depending on the requirements, the distributor terminals may have to be ordered separately.

Up to 6 distributor terminals of 100 pins each (180844) can be mounted.

Technical Data

Environmental class as per VdS	II
Dimensions (W x H x D)	380 x 405 x 80 mm
Housing material	Sheet steel
Housing colour	light-grey, similar to RAL 7032

Accessories for VVD 600

180844 **100-pin distributor terminal**

Cable links

050223.17 **Cable link type II, white**

Technical Data

Dimensions (Ø)	outside: 10 mm, inside: 6 mm
Length	30 cm
Colour	traffic-white, similar to RAL 9016

050233 **Cable link type II, brown**

Technical Data

Dimensions (Ø)	outside: 10 mm, inside: 7 mm
Length	30 cm
Colour	brown, similar to RAL 8017

Metal protective tube

050226 Metal protective tube type II, white

Technical Data

Dimensions (Ø)	outside: 10 mm, inside: 7 mm
Length	10 m
Colour	grey-white, similar to RAL 9002

050236 Metal protective tube type II, brown

Technical Data

Dimensions (Ø)	outside: 10 mm, inside: 7 mm
Length	10 m
Colour	brown, similar to RAL 8017

050205.17 Fixing caps for metal protective tube type II, white

Technical Data

Dimensions (Ø)	outside: 10 mm
Colour	traffic-white, similar to RAL 9016

050206 Fixing caps for metal protective tube type II, brown

Technical Data

Dimensions (Ø)	outside: 10 mm
Colour	brown, similar to RAL 8017

050213 Protective sleeve for metal protective tube type II, white

Technical Data

Dimensions (Ø)	7/6 mm
Colour	grey-white, similar to RAL 9002

10 pieces

050250 Concealed cable link, long

The concealed cable link with mounting box can be inserted into metal or plastic.

In connection with the mounting aid included in the delivery, a quick and simple installation is also possible in wood. No cumbersome and time-consuming processing using a firm chisel and file is necessary.

Technical Data

Dimensions (W x H x D)	24 x 480 x 17 mm
Angle of the doorway	max. 180°
Center of rotation	max. 36 mm
Inner diameter	10 mm

050251 Concealed cable link, short

The concealed cable link with mounting box can be inserted into metal or plastic.

In connection with the mounting aid included in the delivery, a quick and simple installation is also possible in wood. No cumbersome and time-consuming processing using a firm chisel and file is necessary.

Technical Data

Dimensions (W x H x D)	24 x 260 x 17 mm
Angle of the doorway	max. 180°
Center of rotation	max. 18 mm
Inner diameter	10 mm

050252 Concealed cable link, narrow

The concealed cable link with mounting box can be inserted into metal or plastic.

In connection with the mounting aid included in the delivery, a quick and simple installation is also possible in wood. No cumbersome and time-consuming processing using a firm chisel and file is necessary.

This narrow design of the cable link is suitable in particular for mounting into doors with standard rebate according to DIN 18101.

Technical Data

Dimensions (W x H x D)	20 x 382 x 15 mm
Angle of the doorway	max. 180°
Center of rotation	max. 18 mm
Inner diameter	8 mm

050260 Concealed cable link, medium

Spiral without mounting box for use in hollow chamber profiles.

Technical Data

Dimensions (L)	241 mm
Angle of the doorway	max. 100°
Inner diameter	8 mm

050261 Concealed cable link, short

Spiral without mounting box for use in hollow chamber profiles.

Technical Data

Dimensions (L)	155 mm
Angle of the doorway	max. 100°
Inner diameter	10 mm

050262 Concealed cable link, long

Spiral without mounting box for use in hollow chamber profiles.

Technical Data

Dimensions (L)	370 mm
Angle of the doorway	max. 180°
Inner diameter	10 mm

050265 Miniature cable link

Miniature cable link fitted with end caps for mounting when cables in windows and doors are guided concealed. Owing to the small amount of space required, it can be mounted almost everywhere in the rebate zone.

Side-hung/bottom-hung windows retain their full function. On the one hand, concealed mounted has the advantage of increased security and, on the other, hardly any restrictions with respect to the opening angle. Both flat-band (e.g. for alarm glass) and round cables can be inserted.

Technical Data

Dimensions (L)	191 mm
Cable diameter	4.9 mm

General accessories

050510 Mains interference suppression filter type 2KV3

The mains interference suppression filter is intended for later installation in all mains-operated devices in which problems due to HF power failure arise.

Technical Data

Rated voltage	120 V - 250 V AC
Rated current	max. 2 A
Mains frequency	50 - 60 Hz
Ambient temperature	-10 °C to + 40 °C
Pitch	60.4 mm
Dimensions (W x H x D)	52.6 x 46.0 x 23.1 mm (without flange)

Mains interference suppression filter and terminal block.

055260 Glass/metal gluing set

Loctite 319: Glue 5g, activator 4 ml.

032265 Silicone glue RTV

Multi-purpose one-component silicone sealing compound:
- specifically for industrial maintenance and repair work
- vulcanises at room temperature to give a viscous rubber
- excellent adhesion to a multitude of grounds, e. g. on light structured glass
- remains permanently elastic from -50°C to +220°C
- resistant to ageing, UV and weather, resistant to chemical contacts

Technical Data

Content	90 ml

032266 Contact spray

For improving the acoustic coupling between sensor tester and glass pane.

Technical Data

Content	400 ml

032267 Glass/metal gluing set

Please use glue 032267 for intrusion detection system with VdS certificate.

24 ml of glue and 150 ml of curing agent.

055280 Fixing band for accumulators, dual lock

The flexible press lock is suitable for fastening and fixing accumulators according to European Standard EN Part 2 and VdS guidelines 2540 (impact and vibration).

4 double strips each 15 cm long.

Solder plug-in strips

055111 2-pin solder plug-in strip

5 pieces

055112 3-pin solder plug-in strip

5 pieces

Relay

013100.08 Relay extension module

Module with 4 relays 250 V AC / 5 A and 2 slots for group relay card 070478.

Technical Data

Current consumption at 12 V DC	45 mA
Contact load	250 V AC / 5 A

070478 Group relay card

Plug-in card containing 4 relays 24 V DC/1 A for upgrading the relay extension module.

Also for use in HB/MB48 and MB100.10 to add 4 potential-free contacts.

Technical Data

Current consumption at 12 V DC	16 mA
Contact load	24 V DC /1 A (1 changeover contact)

070450 Additional relay 12 V DC

Small PCB with relay, connection terminals, two changeover contacts.

Technical Data

Maximum switching capacity	250V AC / 5 A

Replacement circuit for loudspeaker

043117 **Replacement card for loudspeaker monitoring**

2-pin plug-in.

043119.02 **Connection module for pressure chamber loudspeaker**

Includes 6 kOhm resistor / 0 Ohm bridge.

Sealing material

055131 **Sealing screws, M4x6**

20 pieces

050097 **VdS adhesive seal Ø 12 mm**

48 pieces

055105 **Sealing caps, green**

10 pieces

055106 **Press-in mandrel for sealing caps**

Cable

055300.17 **Cable drum 4 x 0.14, trafficwhite**

Technical Data

Colour	traffic white (similar to RAL 9016)

100 meters per drum

055301 **Cable drum 4 x 0.14, brown**

100 meters per drum

Wall mounting

050040 Additional housing ZG1

With screw-on cover and built-in cover contact.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	300 x 186 x 125 mm
Housing colour	grey-white, similar to RAL 9002

050046 Additional housing ZG2

With screw-on door and built-in cover contact.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	350 x 300 x 152 mm
Housing colour	grey-white, similar to RAL 9002

050049 Additional housing ZG3.1

With screw-on door and built-in cover contact.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	500 x 300 x 210 mm
Housing colour	grey-white, similar to RAL 9002

050050 Additional housing ZG3.2

With screw-on door and built-in cover contact.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	500 x 300 x 260 mm
Housing colour	grey-white, similar to RAL 9002

050055 **19” additional housing ZG4**

12 HU, with lockable door and built-in cover contact.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	580 x 640 x 300 mm
Housing colour	grey-white, similar to RAL 9002

013119 **19” dummy unit 3 HU**

Dummy unit for 19” switch cabinet installation dimension, headroom 3 height units.

Technical Data

Material	sheet steel 2 mm, powder-coated
Colour	signal-grey, similar to RAL 7004

013118 **19” dummy unit 6 HU**

Dummy unit for 19” switch cabinet installation dimension, headroom 6 height units.

Technical Data

Material	sheet steel 2 mm, powder-coated
Colour	signal-grey, similar to RAL 7004

Stand-Alone Solutions

- NetAXS-123
- ACD
- ACC
- Compact door code

Stand-alone, modular accsess control system, programable via Web-Browser

NEW

NetAXS-123 is a compact stand-alone access control solution that can be easily installed and managed via a web browser without the need to install a software. Each NetAXS-123 panel can be configured for one, two or three doors.

Stand-alone panel managed using free web browser functionality

NetAXS-123 doesn't require an on-line connection to a laptop or PC.

To manage the ID cards and access control functionality on the panel locally, simply connect a USB or standard network cable to any PC or laptop and use the free web browser to manage the functions.

Easy installation saves time

The NetAXS-123 panel provides all connections for 1 up to 3 doors with one or two readers per door.

Expanding a one door system takes just minutes with the NetAXS-123 add-on boards for one or two doors.

Connecting the peripherals is made easier and wiring minimised using Power over Ethernet (PoE) capability.

The panels are available in either a compact plastic enclosure without power supply or a metal enclosure with a built-in 230V AC power supply.

There is no need to use a separate software

If the user needs a report or analysis from the memory of the panel use easily only the web interface.

The intuitive web interface is easily to use and reducing training time and saves money for both installer and user.

Management functions via Web-Browser

NEW

The user interface of the web browser

Stand-alone, modular, with web browser programmable access control system.

Easy to use landing page provides a user-friendly experience so you can provide end user training in less than 30 minutes.

The landing page can easily be accessed by entering the IP address stored in the panel via the browser.

Uploades and Maintenance

All system-related changes, such as IP address or up-/downloads can be made in the system configuration. Only one click behind the landing page.

Dynamic Screen Updates

In the status screen lots of information about the inputs and outputs of the panel are available at any time and automatically updated.

Thus, for example unknown ID cards could be read.

Door access modes and options

NetAXS-123 allows you to assign different levels of access to ID cards.

Supervisors can be created which have a general authorization.
As well, users can be created with limited rights.

Housing types

NEW

Compact plastic enclosure

- For 1 or 2 doos
- Power over Ethernet (PoE) option
- By using PoE, the output can power one 12 V DC door strike.

Access Control panel (NXD1)

- Ethernet port
- Mini USB port
- Colour coded labels for the terminals
- Removable terminal blocks

Compact metal enclosure

- For 1 up to 3 doos
- Power supply 230 V AC, 4 A, 12 V DC with battery support
- 3,5 A available for external consumer (over 1 A for each door)

Add-on boards

NEW

Add-on boards

- One Door Add-on Board (NXD1)
- One extra door for controller in plastic and metal enclosure
- For one door strike (12 V DC)

- Two Door Add-on Board (NXD2)
- Two extra doors for controller in metal enclosure
- For two door strikes (12 V DC)

NetAXS-123 in standard metal enclosure

NX1MPS — NetAXS-123, 1 door standard metal enclosure with power supply

NEW

Incl. 230 V AC power supply with accu.
For one door. Extension to max three doors possible. (NXD1 resp. NXD2)
Management of 1 to a maximum of 5000 persons.

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	93 V to 264 V AC
Continuous current drain	3,5 A
Battery box	1 x 018003.10 (3,5 A) included
Operating temperature range	0 °C to +49 °C
Storage temperature range	-55 °C to +85 °C
Environmental class as per VdS	II
Housing	steel sheet
Dimensions housing (W x H x D)	302 x 353 x 120 mm
Colour	grey white, similar to RAL 9002

Performance Features

Powered over integrated power supply with accu or PoE (not included)

- Integrated mini USB interface for connection to a laptop or the Video Kit (optional)
- Connection for two external reader (proximity reader mifare- and ProX readers)

Connections:

- 2 reader with LED display and keypad
- 1 door strike relay
- 1 alarm relay
- 1 door strike key
- 1 door monitoring contact
- 1 mini USB interface

Memory:

- 1 to 5000 persons

Special functions:

- Door lock release with
  - a) card only
  - b) PIN code only
  - c) PIN code and card
  - d) PIN code or card

NX2MPS — NetAXS-123, 2 doors standard metal enclosure with power supply

NEW

Incl. 230 V AC power supply with accu.
For two doors. Extension to max three doors possible. (NXD1)
Management of 1 to a maximum of 5000 persons.

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	93 V to 264 V AC
Continuous current drain	3,5 A
Battery box	1 x 018003.10 (3,5 A) included
Operating temperature range	0 °C to +49 °C
Storage temperature range	-55 °C to +85 °C
Environmental class as per VdS	II
Housing	steel sheet
Dimensions housing (W x H x D)	302 x 353 x 120 mm
Colour	grey white, similar to RAL 9002

Performance Features

Powered over integrated power supply with accu or PoE (not included)

- Integrated mini USB interface for connection to a laptop or the Video Kit (optional)
- Connection for four external reader (proximity reader mifare- and ProX readers)

Connections:

- 4 reader with LED display and keypad
- 2 door strike relay
- 2 alarm relay
- 2 door strike key
- 2 door monitoring contacts
- 1 mini USB interface

Memory:

- 1 to 5000 persons

Special functions:

- Door lock release with
  - a) card only
  - b) PIN code only
  - c) PIN code and card
  - d) PIN code or card

NX3MPS **NetAXS-123, 3 doors standard metal enclosure with power supply**

NEW

Incl. 230 V AC power supply with accu.
For three doors.
Management of 1 to a maximum of 5000 persons.

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	93 V to 264 V AC
Continuous current drain	3,5 A
Battery box	1 x 018003.10 (3,5 A) included
Operating temperature range	0 °C to +49 °C
Storage temperature range	-55 °C to +85 °C
Environmental class as per VdS	II
Housing	steel sheet
Dimensions housing (W x H x D)	302 x 353 x 120 mm
Colour	grey white, similar to RAL 9002

Performance Features

Powered over integrated power supply with accu or PoE (not included)

- Integrated mini USB interface for connection to a laptop or the Video Kit (optional)
- Connection for six external reader (proximity reader mifare- and ProX readers)

Connections:

- 6 reader with LED display and keypad
- 3 door strike relay
- 3 alarm relay
- 3 door strike key
- 3 door monitoring contacts
- 1 mini USB interface

Memory:

- 1 to 5000 persons

Special functions:

- Door lock release with
  a) card only
  b) PIN code only
  c) PIN code and card
  d) PIN code or card

NetAXS-123 in comact plastic enclosure

NX1P — NetAXS-123, 1 door comact plastic enclosure without power supply

NEW

Controller in plastic housing.
For one door. Extension to max two doors possible. (NXD1)
Management of 1 to a maximum of 5000 persons.

Technical Data

Rated operating voltage	12 V DC via ext. power supply unit or PoE
Operating voltage range	12 V DC via ext. power supply unit or PoE
Continuous current drain	450 mA (depending on the power supply)
Operating temperature range	0 °C to +49 °C
Storage temperature range	-55 °C to +85 °C
Environmental class as per VdS	II
Housing	plastic
Dimensions housing (W x H x D)	197 x 197 x 70 mm
Colour	grey white, similar to RAL 9002

Performance Features

Powered over external power supply or PoE (both not included)

- Integrated mini USB interface for connection to a laptop or the Video Kit (optional)
- Connection for two external reader (proximity reader mifare- and ProX readers)

Connections:

- 2 reader with LED display and keypad
- 1 door strike relay
- 1 alarm relay
- 1 door strike key
- 1 door monitoring contact
- 1 mini USB interface

Memory:

- 1 to 5000 persons

Special functions:

- Door lock release with
  a) card only
  b) PIN code only
  c) PIN code and card
  d) PIN code or card

NX2P — NetAXS-123, 2 doors compact plastic enclosure without power supply

NEW

Controller in plastic housing.
For two doors.
Management of 1 to a maximum of 5000 persons.

Technical Data

Rated operating voltage	12 V DC via ext. power supply unit or PoE
Operating voltage range	12 V DC via ext. power supply unit or PoE
Continuous current drain	450 mA (depending on the power supply)
Operating temperature range	0 °C to +49 °C
Storage temperature range	-55 °C to +85 °C
Environmental class as per VdS	II
Housing	plastic
Dimensions housing (W x H x D)	197 x 197 x 70 mm
Colour	grey white, similar to RAL 9002

Performance Features

Powered over external power supply or PoE (both not included)

- Integrated mini USB interface for connection to a laptop or the Video Kit (optional)
- Connection for four external reader (proximity reader mifare- and ProX readers)

Connections:

- 4 reader with LED display and keypad
- 2 door strike relay
- 2 alarm relay
- 2 door strike key
- 2 door monitoring contacts
- 1 mini USB interface

Memory:

- 1 to 5000 persons

Special functions:

- Door lock release with
  a) card only
  b) PIN code only
  c) PIN code and card
  d) PIN code or card

NetAXS-123 extension PCB

NXD1 NetAXS-123, 1 door extension PCB

NEW

1 Door extension for NX1MPS, NX2MS and NX1P.

Technical Data

Continuous current drain	1,15 A
Operating temperature range	0 °C to +49 °C
Storage temperature range	-55 °C to +85 °C

Performance Features

- Connection for two external reader (proximity reader mifare- and ProX readers)

Connections:

- 2 reader with LED display and keypad
- 1 door strike relay
- 1 alarm relay
- 1 door strike key
- 1 door monitoring contact

NXD2 NetAXS-123, 2 doors extension PCB

NEW

2 doors extension for NX1MPS.

Technical Data

Continuous current drain	1,15 A
Operating temperature range	0 °C to +49 °C
Storage temperature range	-55 °C to +85 °C

Performance Features

- Connection for four external reader (proximity reader mifare- and ProX readers)

Connections:

- 4 reader with LED display and keypad
- 2 door strike relay
- 2 alarm relay
- 2 door strike key
- 2 door monitoring contacts

Systemdarstellungen

1 Tür

Typische PoE Konfiguration
Kompakt Kunststoff Gehäuse

2 Türen

1-Tür-Standard-Metall-Gehäuse hier mit 1-Tür-Erweiterungskarte

Systemdarstellungen

3 Doors

1 Door Standard
Metal Enclosure shown here
with 2-Door Add-on Board

022421.10 ACD pin code, 8 mm

Performance Features

- 1- to 8-digit pin code
- Max. 4 codes
- Permanent release possible
- With reinforced mechanics

Approval **Z199705 (AC), Class A**

The ACD pin code (ACD=Access Control Door) works in connection with a commercially available door lock with a profile cylinder as autonomous access control. The pin codes can have 1 to 8 digits and are freely selectable by the customer. Up to four pin codes can be stored. A permanent release is also possible.

The mechanical function of the door lock still remains intact. From the inside, the door can still be opened as usual using the door handle. The external handle is free wheeling and is activated after entering a correct pin code.

The door lock release interval can be selected between 3, 8 12 and 20 seconds.

The electronics makes sure that the door can only be opened once during the release time.

The power supply is provided by three AA cells. A necessary replacement of the batteries is indicated by an optic signal.

Technical Data

Current consumption in no-load operation	15 µA
Operating current consumption	8 mA
Voltage supply	3 Mignon cells (1.5 V) Alkali/Mangan
Battery life expectancy	ca. 24 months (with 50 releases/day)
Environmental class as per VdS	II
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Backset	55 mm or bigger
Distance measure	72 mm
Door leaf thickness	38 - 60 mm
Follower measure	8 mm
Dimensions outer label (W x H x D)	65 x 289 x 27 mm
Dimensions inner label (W x H x D)	65 x 289 x 12 mm
Colour	grey white, similar to RAL 9002

Suitable for DIN left-hand or DIN right-hand.
Not approved for fire barrier doors.

Phase-out date 01.07.2014.

022420.10 ACD contactless, 8 mm

Performance Features

- Can manage up to 99 proximity ID cards
- Permanent release possible
- With reinforced mechanics

Approval **Z199706 (AC), Class A**

The ACD contactless (ACD=Access Control Door) works in connection with a commercially available door lock as autonomous access control. The ACD contactless manages up to 99 proximity ID cards. The access rights can be changed without problems using the programming card set.

The mechanical function of the door lock still remains intact. From the inside, the door can still be opened as usual using the door handle. The external handle is free wheeling and is activated after reading an authorised ID card. The door lock release interval can be selected between 3, 8 12 and 20 seconds. The electronics makes sure that the door can only be opened once during the release time.

The power supply is provided by three AA cells. A necessary replacement of the batteries is indicated by an optic signal. When ordering the ID card, please note that another three ID cards have to be ordered. They form the programming card set.

Technical Data

Current consumption in no-load operation	15 µA
Operating current consumption	30 mA
Voltage supply	3 Mignon cells (1.5 V) Alkali/Mangan
Battery life expectancy	ca. 12 months (with 50 releases/day)
Environmental class as per VdS	II
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Reading range	ca. 7 cm
Backset	55 mm or bigger
Distance measure	72 mm
Door leaf thickness	38 - 60 mm
Follower measure	8 mm
Dimensions outer label (W x H x D)	65 x 289 x 27 mm
Dimensions inner label (W x H x D)	65 x 289 x 12 mm
Colour	grey white, similar to RAL 9002

Suitable for DIN left-hand or DIN right-hand.
Not approved for fire barrier doors.

proX1 or proX2 or IK2 proximity ID cards and ID key rings can be used, which are listed in chapter “Readers/Keypads/ID carriers”.
Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.
The programming card set for the ACD is generated by the installer.
Normal cards e. g. 026370.00 can be defined as programming card set.
When ordering the cards, please note that another three cards have to be ordered.

Phase-out date 01.07.2014.

026389.10 **ACC 50**

Proximity reader having its own authorisation request for controlling a door. Programming is very simple by means of programming cards.

When connected to a timer switch, different authorisations can be assigned (e.g. one card will open around the clock, while another card has access from 8:00 am to 4:00 pm only).

Technical Data

Rated mains voltage	12 V DC
Operating voltage range	9 V DC to 15 V DC
Typical current consumption	60 mA
Maximum current consumption	120 mA
Power consumption	1.44 W
Reading distance max.	12 cm
Max. loading capacity of the floating contact	24 V / 1 A DC
Printer interface	RS-232 C, TxD only
Maximum length of the line printer interface	15 m
Type of protection EN 60529	IP64
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-35 °C to +70 °C
Weight	ca. 200 g
Dimensions (W x H x D)	82 x 127 x 14 mm
Colour	grey white, similar to RAL 9002

adapter base 022197.

Performance Features

- Door lock release with up to 99 different proximity cards as a function of time (external time switch)
- Simple programming
- Simple connection technology via prefabricated 5-m cable
- Activation of the door strike via integrated relay (max. 24 V / 1 A)
- Relay output for alarm signal (24 V / 1 A)
- Connection for door feedback and door lock release from inside
- RS-232 printer interface for chronological printout
- Status display via three LEDs:
  - yellow = ready-to-run
  - green = door lock released
  - red = not authorised
- Area switching via external input
- Adjustable door lock release and door monitoring interval

Planning Example ACC 50

Accessories:

Programming card set for ACC 50.
The programming card set for the ACC 50 is generated by the installer.
Normal cards e. g. 026370.00 can be defined as programming card set.
When ordering the cards, please note that another three cards have to be ordered.

026368.00	ID card for proximity readers, neutral
026370.00	ID card for proximity readers, printed
019500	Electric door strike
094051	Power supply unit 12 V DC / 500 mA

026384.10 **ACCK 50**

Same functions as ACC 50 but additionally equipped with keypad for door code. When connected to a serial printer, the time and date of the access attempt is automatically logged. Proximity reader having its own authorisation request for controlling a door.

Programming is very simple by means of programming cards. When connected to a timer switch, different authorisations can be assigned (e.g. one card will open around the clock, while another card has access from 8:00 am to 4:00 pm only).

Performance Features

- Access criterion 1: Card and door code
- Access criterion 2: Card only
- Door lock release with up to 99 different proximity cards as a function of time (external time switch)
- Simple programming
- Simple connection technology via prefabricated 5-m cable
- Activation of the door strike via integrated relay (max. 24 V / 1 A)
- Relay output for alarm signal (24 V / 1 A)
- Connection for door feedback and door lock release from inside
- RS-232 printer interface for chronological printout
- Status display via three LEDs:
  - yellow = ready-to-run
  - green = door lock released
  - red = not authorised
- Area switching via external input
- Adjustable door lock release and door monitoring interval

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V DC to 15 V DC
Typical current consumption	60 mA
Maximum current consumption	120 mA
Power consumption	1.44 W
Reading distance	12 cm
Max. loading capacity of the floating contact	24 V / 1 A DC
Printer interface	RS-232 C, TxD only
Maximum length of the line printer interface	15 m
Type of protection EN 60529	IP64
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-35 °C to +70 °C
Weight	ca. 200 g
Dimensions (W x H x D)	82 x 127 x 14 mm
Colour	grey white, similar to RAL 9002

adapter base 022197.

Planning Example ACCK 50

Accessories:

Programming card set for ACCK 50.
The programming card set for the ACCK 50 is generated by the installer.
Normal cards e. g. 026370.00 can be defined as programming card set.
When ordering the card, please note that another six cards have to be ordered.

026368.00	ID card for proximity readers, neutral
026370.00	ID card for proximity readers, printed
019500	Electric door strike
094051	Power supply unit 12 V DC / 500 mA

025050 Door code compact device

The door code compact device is used as autonomous door strike control device for one door. The device designed in advanced microprocessor technology works with an individually adjustable 2- to 6-digit numeric code.

This makes it easier to set up person-related access authorisations for a room. Up to four different user codes can be programmed.

- Control device with integrated power supply unit and keypad in a lockable housing;
- A 2- to 6-digit code can be set;
- Door unlocking interval of 1 - 30 seconds;
- Can be reset for 12 V / DC door strike max. 250 mA;
- Suitable for no-load current strike and strike with load current function.

Performance Features

- 1-channel device
- Microprocessor-controlled
- 2- to 6-digit code input
- Time-settable channel release 1-30 seconds
- Optic display for release period
- Permanent unlocking via keypad
- Door strike with no-load current or load current function can be used
- Compact design
- Power supply unit and keypad integrated
- Simple installation
- Metal housing

Technical Data

Operating voltage	prim. 230 AC
Operating voltage range	230 V AC (+10 % to -15 %)
Mains frequency	50 Hz
Power consumption full load	11.5 VA
External current drawer	< 0.25 A
Relay contact rating	24 V DC/1 A
Release period	1 - 30 sec.
Type of protection EN 60529	IP30
Humidity class according to DIN 40040	class F
Operating temperature range	0 °C to +40 °C
Storage temperature range	-20 °C to +60 °C
Housing	die-cast aluminium, powder-coated
Dimensions (W x H x D)	120 x 156 x 67 mm
Colour	grey-white, similar to RAL 9002

Accessories:

019500	Universal electric door strike (load current) with feedback contact
019502	Electric door strike Universal DIN left and DIN right, quiescent current
019505	Security door strike DIN left and DIN right

Notizen

Linkable Access Controllers

- ACT
- ACS-2 plus
- ACS-8

Controller				
	ACT		ACS-2 plus	ACS-8
Item no.	026101.10	026100.10	026547 026548	026575 026580 026585
VdS-Approval no.	Z 100702 class A	Z 100701 class A		Z 105009 class C
Memory				
Max. no. of persons	800		65,500*	65,500*
Max. room/time zones	-		512*	512*
Max. no. of bookings	2,200		65,500*	65,500*
Connections				
Door strikes onboard	1		2	4
Door strikes total incl. expansion	1		2	8
Readers onboard	1		2	2
Readers total incl. expansion	-		2	16
Keypads onboard	1		2	2
Keypads total incl. expansion	-		2	16
Semi-conductor outputs onboard	-		3	3
Outputs total incl. expansion	-		6	64
Digital inputs onboard	-		4	4
Inputs total incl. expansion	-		12	64
Differential alarm lines	-		8	8
Host interface				
RS 232	(x)		(x)	(x)
RS 485	(x)		(x)	(x)
Current-Loop	(x)		(x)	(x)
Ethernet	(x)		(x)	(x)
External bus controller	-		x	x
Interface converter	x		x	x
Interface multiplier	x		x	x
RDT analogue	-		x	x
RDT ISDN	-		x	x
Readers/keypads				
proX contactless (“Esser“)	x		x	x
proX mortise (“Esser“)	-		x	x
LEGIC	x		x	x
LEGIC mortise	-		x	x
mifare	x		x	x
Magnetic	x		x	x
Chip	x		x	x
Keypad 2-wire (analogue)	x		x	x
Keypad Clock/Data	x		x	x
Automatic addressing	-		-	x

- = no / x = yes / (x) = via additional option with costs
* depending on memory expansion and dynamic sampling of ACS-2 plus and ACS-8
** on request

Controller				
	ACT		ACS-2 plus	ACS-8
Item no.	026101.10	026100.10	026547 026548	026575 026580 026585
VdS-Approval no.	Z 100702 class A	Z 100701 class A		Z 105009 class C
Validity of data carriers				
by minute	-		x	x
by date	x		x	x
Codes				
PIN, no. of digits	4 or 6 to set via software		4 or 6 to set via software	4 or 6 to set via software
Door code, no. of digits	-		4 or 6 to set via software	4 or 6 to set via software
Duress code	-		x	x
Special functions				
Barring repeated entry	-		x	x
I/O counters door related	-		-	-
I/O counters area related	-		x	x
Multi-eye access, no. of persons	-		1-9	1-9
Anti pass back	-		x	x
Image comparison with camera control	-		x	x
Flexible macro functions	-		x	x
Special controls				
Control outputs	-		x	x
Control output groups	-		x	x
Turnstile control	-		x	x
Elevator control	-		x	x
Key depot control	-		-	x
Interlock control	-		x	x
Biometrics				
Fingerkey recognition	x		x	x
Face recognition	-		-	via connection to 3rd party system
Iris recognition	-		-	via connection to 3rd party system
Back of hand recognition	-		-	via connection to 3rd party system

- = no / x = yes / (x) = via additional option with costs
* depending on memory expansion and dynamic sampling of ACS-2 plus and ACS-8
** on request

026101.10 Access Control Central Control Unit ACT

VdS **Approval** **Z 100702 Class A**

For 230 V AC power supply.
Management of 1 to a maximum of 800 persons.

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% to +10%
Mains frequency	50 Hz
Output voltage	10 V DC to 15 V DC
Power consumption	10 VA
Max. current drain external load	300 mA
Device with fuse protection primary	100 mAT, 250 V
Device with fuse protection secondary	1 AT, 250 V
Dimensions (W x H x D)	201 x 147 x 51 mm

without interface.

Phase-out date 30.06.2014.

Performance Features

- Slot for RS-485 interface (5-wire) for connection to interface converter
- Integrated RS-232 interface for connection to a notebook or PC
- Slot for Ethernet interface for connection to 10/100 Mbits/s - LAN
- Connection for an external reader (magnetic, chip card, proximity reader or mifare and Legic readers)
- To be operated with MultiAccess Lite / IQ MultiAccess

Connections:

- 1 reader with LED display and 2-wire keypad
- 1 door strike relay
- 1 alarm relay
- 1 door strike key
- 1 door monitoring contact

Memory:

- 1 to 800 persons
- Ring buffer for 2,200 bookings

Special functions:

- Door lock release with
  a) card only
  b) PIN code only
  c) PIN code and card
  d) PIN code or card

Accessories:

026693	RS -485 5-wire interface
026840.29	Ethernet interface (AutoSense, 10/100 Mbits/s)
026817.03	Interface converter
026109	PC adapter cable
026809	Connecting cable
019500	Electric door strike (ZK)
027901	Converter board reader

026110 Software upgrade for ACT 300 to 800 persons

Honeywell UPGRADE Software

Memory extension option from 300 to 800 persons by means of firmware update (EPROM replacement).

For older versions of the ACT: 026101.10

Phase-out date 30.06.2014.

Planning example ACT

Direct connection via RS 232

Connection via Ethernet

Connection via interface converter, 1 or 2 lines

The maximum amount of ACT controllers is depending on the individually used AC-software.

ACS-2 plus base unit

Performance Features

- Smart access control panel for 2 doors

Connections:

- 2 readers with clock/data interface
- 2 keypads with 2-wire interface
- 4 relay outputs (e.g.: door strike, flash lamp, etc.)
- 3 semiconductor outputs (e.g.: threat, WatchDog, etc.)
- 4 digital inputs (e.g.: door strike key, monitoring contact, etc.)
- 8 differential detector groups (e.g.: magnetic contact, glass breakage sensor, etc.)
- Integrated tamper contact
- For Host interfaces RS-485, RS-232 or Ethernet 10/100 Mbits/S Host
- Analog modems and ISDN terminal adapters are supported.
- Direct modem connection without additional card

Memory:

- Upgradable program memory (flash)
- Dynamic memory management
- Battery-buffered memory (0.5 MB, extendable to 3.5 MB)
- Max. approx. 65,500 badges*
- Max. approx. 512 room/time zones*
- Public holiday and holiday calendar
- Booking buffer for max. 65,000 events*
- Clock with data and automatic summer/winter time setting

* The values depend on the memory extension and parameterisation of the dynamic memory management.

Special functions:

- Variable door lock release, monitoring and alarm periods
- Automatic function control via time zones (e.g.: door lock release, etc.)
- Special relay function for real-time release for rescue route interface
- Flexible event control via inputs and relays
- Macro control
- Zone change control

Housing

- Compact housing (with integrated power supply unit in the 230 V version)

The ACS-2 plus is a two-door access control panel. Two separate doors or a door with internal and external readers can be connected by the conventional method.

The complete firmware is upgradable. No more time-consuming replacements of the EPROMs will be necessary in case of function extensions. New program parts or extensions can be uploaded to the control panel via the ZK software.

The access control rights are set up and managed via the ZK software.

The maximum number of controllers is determined by the access control sftware.

To be operated with:

- MultiAccess for Windows from V6 / SP1

- MultiAccess Lite

- IQ MultiAccess

- NovaTime

The ACS-2 plus contains all decision rights for door lock release and control.

- Housing with processor board
- Periphery connection via screw terminals
- Connections for two clock/data readers
- Connections for two 2-wire keypads
- Connection for host interface

Accessories:

027901	Reader converter board
018002.10	12 V DC accumulator / capacity 2,0 Ah
026840.03	RS -232 interface
026693	RS 485 5-wire interface
026840.29	Ethernet interface 10/100 Mbits/s (AutoSense)
026596	Memory extension 1 MB RAM
026597	Memory extension 2 MB RAM
026598	Memory extension 3 MB RAM

026547 ACS-2 plus, 230V AC, without interface

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC - 15% + 10%
Environmental class as per VdS	II
Operating temperature range	0 °C to +45 °C
Storage temperature range	-25 °C to 70 °C
Housing	Sheet steel
Dimensions (W x H x D)	250 x 210 x 100 mm
Colour	grey white, similar to RAL 9002

026548 ACS-2 plus, 12V DC, without interface

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Environmental class as per VdS	II
Operating temperature range	0 °C to +45 °C
Storage temperature range	-25 °C to 70 °C
Housing	Sheet steel
Dimensions (W x H x D)	250 x 210 x 100 mm
Colour	grey white, similar to RAL 9002

Memory expansions for ACS-2 plus

026596 1 MB RAM memory card for ACS-8 / ACS-2 plus

This memory card increases the available memory from 0.5 MB to 1.5 MB.
ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

026597 2 MB RAM memory card for ACS-8 / ACS-2 plus

This memory card increases the available memory from 0.5 MB to 2.5 MB.
ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

026598 3 MB RAM memory card for ACS-8 / ACS-2 plus

This memory card increases the available memory from 0.5 MB to 3.5 MB.
ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

Planing example ACS-2 plus

Host connection possibilities of ACS-2 plus

With IQ MultiAccess, the individual connection possibilities can be combined in any way.
MultiAccess Lite does not support RDT.

Planing example ACS-2 plus

Door configuration
Maximum 2 doors per ACS-2 plus

a) One door, one reader b) One door, two readers c) Two doors with one reader each

ACS-8 base unit

Performance Features

- Intelligent access control panel for 2 doors (can be extended to max. 8 doors (sixteen readers) via RS-485 module bus)
- 4 door strikes directly connectable

Connections:

- 2 readers with clock/data interface
- 2 keypads with 2-wire interface
- 4 relay outputs (e.g.: door strike, flash lamp, etc.)
- 3 semiconductor outputs (e.g.: threat, WatchDog, etc.)
- 4 digital inputs (e.g.: door strike key, monitoring contact, etc.)
- 8 differential detector groups (e.g.: magnetic contact, glass breakage sensor, etc.)
- Integrated tamper contact
- Optional host interfaces (RS -485, RS -232, Fast Ethernet 10/100 Mbits/s, Current Loop)
- RS-485 module bus (optionally via communication module)
- Flexible power supply unit configurations, depending on the required power
- 12 V DC emergency power supply, depending on power supply unit configuration and required power
- Analog modems and ISDN terminal adapters are supported.
- Direct modem connection without additional card
- Clock with data and automatic summer/winter time setting
- Variable door lock release, monitoring and alarm periods
- Automatic function control via time zones (e.g.: door lock release, etc.)
- Special relay function for real-time release for rescue route interface
- Convenient and flexible event control via inputs and output modules
- Macro control (intrusion detection system control, lift control, etc.)
- Zone change control
- Blocking of repeated access
- Auto-addressing mode of the new Accentic readers
- Easy-to-implement door interlock control
- Implementation of picture comparison
- Multiple person access control “4-eye principle”
- 4 door strikes directly connectable to ACS-8
- 2 doors can be connected to the door module
- LEGIC swipe readers are supported

Memory:

- Upgradable program memory
- Dynamic memory management
- Battery-buffered memory (0.5 MB, extendable to 3.5 MB)
- Max. approx. 65,500 badges*
- Max. approx. 512 room/time zones*
- Public holiday and holiday calendar
- Booking buffer for max. 65,000 events*

* The values depend on the memory extension and parameterisation of the dynamic memory management.

VdS Approval **Z 105009, Class C**

ACS-8 is the high-end access control panel which meets all requirements of an advanced access control system. Its particular performance feature is its flexible and freely selectable installation technology. Thus, up to two separate doors or a door with internal and external readers can be connected by the conventional method.

The communication module allows an extension by means of wire-saving RS -485 bus technology to max. eight doors (sixteen readers).

As standard feature, two controllable RS-485 interface drivers are integrated in the communication module.

The complete firmware is upgradable. No more time-consuming replacements of the EPROMs will be necessary in case of function extensions. New program parts or extensions can be uploaded to the central control units via the AC software.

To be operated with:

- MultiAccess for Windows from V5
- IQ MultiAccess

The maximum number of controllers is determined by the access control sftware. The access control rights are set up and managed via IQ MultiAccess.

The ACS-8 contains the decision rights for door lock release and control.

The optional fitting of an Ethernet card (026840.29) allows the terminal to be integrated directly into existing Ethernet networks (LANs).

The following components can be connected to the communication module:

- Magnetic card reader RS -485
- Legic reader RS-485, mifare reader RS-485, fingerkey
- Proximity reader RS-485
- Keypad RS-485
- Many readers of other brands via the converter board
- Door module 12 V version/230 V version RS-485
- Input module RS-485, output module RS-485, input/output module RS-485
- Biometric detection systems (upon request):
  - Fingerkey
  - TBS finger scanners

The connection to intrusion detection systems can be done via the input/output modules. From V 02 and macro control.

The connection to escape route technology is done directly via a temporary release.

- Housing with processor board
- Periphery connection via screw terminals
- Connections for two clock/data readers
- Connections for two 2-wire keypads
- Slot for host interface and memory card
- Assembly site for communication module

Accessories:

026692	RS-485 5-wire interface without potential separation or
026693	RS-485 5-wire interface with potential separation or
026840.03	Asynchronous RS -232 host interface or
026840.16	Current loop current interface or
026840.29	Ethernet interface (AutoSense, 10/100 Mbits/s)
018002.10	12 V DC accumulator / capacity 2,0 Ah or
018003.10	12 V DC accumulator / capacity 3,5 Ah
026596	1 MB RAM memory card or
026597	2 MB RAM memory card or
026598	3 MB RAM memory card
026587	Communication module (max. 2 per ACS-8)
027901	Converter board reader

026585 ACS-8 standard system, 230 V AC

VdS **Approval** **Z105009, Class C**

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% +10%
Continuous current consumption	1.4 A
Battery box	1 x 018003.10 (3,5 Ah) or 2x 018002.10 2,0 Ah)
Environmental class as per VdS	II
Operating temperature range	-0 °C to 45 °C
Storage temperature range	-25 °C to 70 °C
Housing	Sheet steel
Dimensions housing (W x H x D)	350 x 280 x 100 mm
Colour	grey white, similar to RAL 9002

power supply unit/charger 010 690.02.

Accessories:

026596	Memory extension 1 MB RAM
026597	Memory extension 2 MB RAM
026598	Memory extension 3 MB RAM

026575 ACS-8 standard system with freely selectable power supply unit installation

VdS **Approval** **Z105009, Class C**

Depending on the required current, one of the following power supply units/chargers can be used:

012168 = 80 Ah/continuous current drain: 3.5 A

012170 = 130 Ah/continuous current drain: 5.0 A

Technical Data

Rated operating voltage	12 DC
Operating voltage range	10 V DC to 15 V DC
Current consumption without periphery	max. 150 mA
Environmental class as per VdS	II
Operating temperature range	-0 °C to 45 °C
Storage temperature range	-25 °C to 70 °C
Housing	sheet steel
Dimensions (W x H x D)	350 x 280 x 100 mm
Colour	grey white, similar to RAL 9002

The selection of the power supply unit/charger depends on the connected consumers.

Accessories:

026596	Memory extension 1 MB RAM
026597	Memory extension 2 MB RAM
026598	Memory extension 3 MB RAM

026580 ACS-8 standard system, 12 V DC

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption without periphery	max. 150 mA
Environmental class as per VdS	II
Operating temperature range	-0 °C to 45 °C
Storage temperature range	-25 °C to 70 °C
Housing	sheet steel
Dimensions (W x H x D)	250 x 210 x 100 mm
Colour	grey-white ,similar to RAL 9002

Accessories:

026596	Memory extension 1 MB RAM
026597	Memory extension 2 MB RAM
026598	Memory extension 3 MB RAM

Memory expansions for ACS-8

026596 1 MB RAM memory card for ACS-8 / ACS-2 plus

This memory card increases the available memory from 0.5 MB to 1.5 MB.
ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

026597 2 MB RAM memory card for ACS-8 / ACS-2 plus

This memory card increases the available memory from 0.5 MB to 2.5 MB.
ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

026598 3 MB RAM memory card for ACS-8 / ACS-2 plus

This memory card increases the available memory from 0.5 MB to 3.5 MB.
ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

Function extension

026587 Communication module

The ACS-8 communicates with the connected RS-485 users via the communication module.

As standard feature, two separate RS-485 interface drivers are integrated into the communication module.

A maximum of up to 32 users can be managed simultaneously.

For each ASC-8, up to 2 communication modules can be used. This gives a maximum of 4 separate RS 485 bus systems including up to 8 half-lines. This allows even the most complex topologies to be generated.

Technical Data

Current consumption	max. 150 mA

Module bus users / RS-485 modules

For bus readers and keypads, please see chapter “Readers, Keypads”.

026590 Input module, RS-485

Technical Data

Digital inputs	4 x potential separated
Operating voltage range	9 V DC to 15 V DC
Current consumption	max. 140 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

026591 Output module, RS-485

Technical Data

Relays	4 x 24 V DC / 1 A
Operating voltage range	9.5 V DC to 15 V DC
Current consumption	max. 250 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

026592 Input/output module, RS-485

Technical Data

Differential inputs	2 x clearable
Digital inputs	2 x potential separated
Relay outputs	2 x 24 V DC / 2 A
Operating voltage range	9.5 V DC to 15 V DC
Current consumption	max. 230 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

026595.10 Module potential separation, RS-485

A maximum of four modules without a potential separated RS -485 interface of their own can be connected to the module.

Recommended when using external power supply units and for long bus lines run outdoors as well as building-covering installations.

Connectable modules include all readers, keypads and door modules equipped without a potential separated RS -485 interface of their own.

Technical Data

Connection	Control line and separated RS-485 interface for up to 4 modules
Operating voltage range	10 V DC to 15 V DC
Current consumption	max. 120 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

026593.10 Door controller, 12 V DC, RS-485

The complete door periphery is wired on the door module. The door module is a module bus user and communicates with the ACS-8 via an integrated RS-485 interface.

The ACS-8 contains the access control rights and makes the decisions.

When equipped with IQ MultiAccess (from V3), a door module can control either **one or two doors**, as desired.

To the door module, item no. 026593.10, also Wiegand readers can be connected. This requires IQMA as of V.12.

Performance Features

- 2 clock/data readers
- Opening contact for 1 or 2 doors
- Door strike key for 1 or 2 doors
- Feedback contact for 1 or 2 doors
- 2 relays + semiconductor output programmable as door relay for 1 or 2 doors or programmable as alarm- or tamper output

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption (no-load) w/o ext. users	10 mA
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Colour	grey-white, similar RAL 9002
Housing	plastic
Dimensions (W x H x D)	163 x 152 x 40 mm

If, from IQ MultiAccess V3, two doors are controlled via the door module, the number of freely usable inputs and outputs is reduced.
The device has now potential separation. If required it must be connected to item no. 026595.10.

026594.10 Door module, 230 V AC, RS-485

The complete door periphery is wired on the door module. The door module is a module bus user and communicates with the ACS-8 via an integrated RS-485 interface.

The ACS-8 contains the access control rights and makes the decisions.

When equipped with IQ MultiAccess (from V3), a door module can control either one or two doors, as desired.

To the door module, item no. 026594.10, also Wiegand readers can be connected. This requires IQMA as of V.12.

Performance Features

- 2 clock/data readers
- Opening contact for 1 or 2 doors
- Door strike key for 1 or 2 doors
- Feedback contact for 1 or 2 doors
- 2 relays + semiconductor output programmable as door relay for 1 or 2 doors or programmable as alarm- or tamper output

In addition:

- Integrated 230 V AC power supply unit
- Accumulator support 1 x 018002.10 (2.0 Ah)

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% to +10%
Current consumption (no-load) w/o ext. users	65 mA
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Colour	grey-wheite, similar RAL 9002
Housing	plastic
Dimensions (W x H x D)	250 x 210 x 100 mm
Battery box	1 x 018002.10 (2.0 Ah)

If, from IQ MultiAccess V3, two doors are controlled via the door module, the number of freely usable inputs and outputs is reduced.
The device has now potential separation. If required it must be connected to item no. 026595.10.

Power supply unit with accumulator charging connection.

Planing example ACS-8

Host connection possibilities of ACS-8

With IQ MultiAccess, the individual connection possibilities can be combined in any way.
MultiAccess Lite does not support ACS-8 controllers.

Conventional Connection

Maximum 2 doors per ACS-8

a) One door, one reader b) One door, two readers c) Two doors with one reader each

Planing example ACS-8

Combined conventional connection

Maximum 4 doors per ACS-8.
In addition to the variants a) to c), two further doors strikes can be connected to the onboard relays. The corresponding bus readers have to be connected via RS-485. Communication module required.
Both of the additional doors can have one or two readers either.
.

Connection via door module

Maximum 8 doors with entry and exit reader per ACS-8
Communication module required

Planing example ACS-8

Connection via door module

Maximum 8 doors with entry and exit reader per ACS-8
Communication module required

Combined connection possibilties

All previously displayed connection possibilities
can be combined in any order.
However, the maximum number of 8 doors per
ACS-8 must not be exceeded.

Planing example ACS-8

Connection to I/O module with external power supply and electrical isolation module

Module electrical isolation is recommended for:

- long bus lines
- Bus lines outside of buildings
- Operation of readers/keypads with external power supply

Control of one door and power supply via separate power supply unit.
(up to maximum 1.200 m cable length)

Connection to door module with direct power supply via door module

Control of one door and power supply directly via door module.
(up to maximum 1.200 m cable length)

Planing example ACS-8

Variable connection diversity

- Extension of existing systems with ACS-8 controllers possible without problems (in combination with or as replacement of existing controllers).
- MultiAccess for Windows is supported from version 5 and IQ MultiAccess from version 1.
- Combination of all connection types supported by the appropriate software (direct connection, interface converter, Ethernet, remote data transmission connection).
- Location independent with IQ MultiAccess

Software for Access Control Systems
- IQ MultiAccess

IQ MultiAccess basic package / professional package

Product description

IQ MultiAccess is a completely new development and is based on a genuine **Client/Server architecture** having a high-speed database connection. This makes the AC system fully **scalable**, thus being virtually **no longer subject to any restrictions** with respect to the number of persons, doors, room/time zones, workstations.

The server redundancy and RAID systems give **very high availability** of the AC system. All data is transmitted with internal **encryption** and critical data is also memorised in encrypted form.

With the incorporation of **IQ NetEdit**, the hardware management was significantly upgraded, allowing to connect, apart from the older ACS-1, also all current ones (ACT, ACS-2, ACS-8) and TRS time recording terminals as well as the 561-MB24/48/100 intrusion detection control panels.

The **database system** used is the free-of-charge SQL database, which is part of the standard package and is installed automatically.

To connect existing SQL database systems (Oracle, IBM-DB2, MS-SQL server), the Pro package is used. This requires familiarity with relational database systems.

IQ MultiAccess can be **"located"**, that is:

a) several companies can use the same system in a building ("client processing ability") with separate staff data management, although, for example, the entrance area is used by all companies. This results in economic advantages, since several companies can share the purchase of a system.

b) a company can use a system comprising several subsystems at several locations ("location ability").

Exactly specified write-only and read-only rights can be assigned to individual users by means of detailed **access protection via passwords**. In addition, the log file will save all system programmings. This increases the security of the system against misuse.

A **user interface** designed according to the most advanced ergonomic aspects allows you to become very quickly familiar with the system. It is possible to work simultaneously in several windows (tabbed views), important system messages are always in view.

Data are quickly selected via tree structures and lists, and an extensive staff master record including photo, signature and freely definable fields increases flexibility.

The access rights of the employees are entered and managed via graphics or directly.

Comprehensive **logging** allows, inter alia, short video sequences to be recorded and replayed upon activating a webcam ("gatekeeper module" from V3). To filter and evaluate are done very quickly via drag 'n' drop, and the reporting tool has been extended considerably. Thus, outputs as Excel, text, HTML and XML, files are now also possible.

All important AC functions from **MultiAccess for Windows** have been incorporated and extended or optimised:

For example, the zone change control can now also be done globally via the server, if desired. The 4-eye principle is now being offered with more flexibility (from V3).

The **integration** of IQ MultiAccess into other systems, such as time management systems, can now be carried out seamlessly via defined interfaces.

An **upgrade** of existing systems (MultiAccess for Windows, EnterpriseAccess, Multi-Access Lite) is done with suitable packages.

The **licensing** is now done in packages with a fixed number of employees. It can then be extended step by step at any time.

IQ MultiAccess standard package

Performance Features

System Description:

- Runs under Windows XP, Windows Server 2003 32-/64-bit version, Windows Server 2008 32-/64-bit Version (Foundation version not possible) and Windows 7 32-/64-bit version
- Complete Client/Server system for data security, high availability and scalability
- Download of client installations via browser
- Automatical updates of clients installations from server
- Already in the standard version, unlimited number of:
  - Workstations
  - Controllers
  - Doors
  - Data carrier groups
  - Departments, Cost Centres, Work Groups
- Depending on location
  - 65,500 persons
  - 999 doors
  - 512 room/time zones

Connection possibillities:

- Connection of the controllers via RS-232, RS-485, Ethernet, RDT, intruder alarm control panels also via IGIS-LOOP.
- Automatic recognition of connected hardware
- Desktop reader for transponders (ID-cards, key fobs)
- Read/write desktop reader for mifare/LEGIC transponders
- Passport scanner
- Signature pad
- USB / IP camera
- Key depot

Security:

- Encrypted data transmission and storage

Update possible from:

- MultiAccess for Windows V7 / SP2
- IQ SystemControl
- MultiAccessLite
- EnterpriseAccess 2000

Main versions of IQ MultiAccess:

- **Basic package**, sorted by number of persons including license-free Firebird SQL database

or

- **Professional package**, sorted by number of persons including preparation for connection to existing SQL databases.

In the standard version (one location):

- 65,500 persons
- 999 doors
- 512 room/time zones
- Detailled logging of all system events
- Unlimited number of
  - Workstations
  - Terminals
  - Doors
  - Data carrier groups
  - Departments, Cost Centres, Work Groups

Integration:

- Import tool for personnel data transfer from SQL databases or via LDAP-interface
- Export tool for personnel data transfer into XLS, TXT, HTML, XML formats
- Interface to WINMAG plus or WINMAG Lite for graphic building display and alarm monitoring
- Interface to fire detection systems, video monitoring and facility management via WINMAG
- Integration with intrusion detection technology, rescue route technology and time recording directly possible
- Connection to biometric system of access control (via ACS-8)
- Integrated ID-card creation

The most important functions (overview):

- Multi-client processing and multi-location ability via unlimited number of locations
- Modern clearly organised ergonomic interface for quick familiarisation and simplified operation
- Individual composition of all predefined list via drag´drop (sorting, filtering and grouping) can be saved as user profile
- WYSIWYG print from all lists, optional automatically via print server
- Export as xls, txt, htm or xml files
- Multi-person access control
- Public holiday calendar containing customisable public holiday formulae
- Date and time-related data carrier validity
- Changing of personal data and visitor data carriers by group
- Definition of visitor ID-cards with special authorizations
- Automation of certain processes via actions, scheduled tasks or freely programmable macros, e. g. automatical data backup, deleting automatically bookings older than x days, or if the logfile exceeds a certain size
- Authorization control via person-related users with individual passwords and rights
- Anonymous bookings if desired
- Interlocking door control
- Notification via SMS, E-Mail, Fax
- Fiducia approval for installation in R+V banks
- Print server
- Data import via LDAP interface or SQL databases
- Creation and control of macros
- Visualization via virtual aeria tableau
- Support of mifare DESfire EV1 with key change on the fly
- Visitor administration with individual visitor ID-cards. Input of personnel data possible by scanning the passport
- Connection of electronic offline and online cylinders as well as electronic fittings*
- For electronic cylinders DLC and electronic fittings DLF with proX, mifare and LEGIC reading technologies
- Data synchronisation via Palm® PD* or laptop/notebook*
- Door list at the Palm / notebook* indicates which doors have already been programmed
- Display of tamper attempts and battery states
- Programming takes place via room/time zones in IQ MultiAccess
- Simple permanent release of a door equipped with automatic lock during working hours
- IQ Cylinder PC software performs the data exchange between IQ MultiAccess and the PDA (USB) or the laptop
- Data exchange between PDA/laptop and door cylinder/fittings via infrared interface

*Hardware not included

Access criteria:

- General authorization
- Transponders only (ID-card, key fob)
- Door code only
- PIN only
- Transponder and door code
- Transponder or door code
- Transponder and PIN
- Transponder or PIN
- Automatic zones for temporarily change of access criteria
- Multi-person access control (2 – 9 persons)
- Optional connection to biometric systems

Options:

- Client processing ability (clients, locations, use of common doors by several clients)
- Antipassback with virtual area overview tableau, barring repeated entry, balancing (couter control for automation of facility management, e. g. parking lot control)
- Door guard module with image matching and storage of image sequences or live-monitoring (via TCP/IP-camera). Personnel check by random generator.
- Badges and forms management
- Administration of master file data of intruder alarm control panels 561-MB24/48/100 concerning arming/disarming, macros and access control authorizations. Control via virtual IACP operating unit
- Connection of digital locking cylinders and fittings
- Connection of TBS finger scanners

PC Requirements:

Operating system:	Windows XP, Server 2003 R2, Server 2008, Server 2012, Windows 7 and Windows 8
Computer:	According to the requirements of the appropriate operating systems
Security (Server):	RAID 1 = hard disc mirroring / USV (uninterruptable power supply)
Monitor / graphic card:	minimum: 17” 1024 x 768 (Workstation)
	recommended: 19” 1152 x 864 (Server)
other requirements:	DVD-drive, mouse, trackball or other Windows-compatible pointing device
for RDT:	Modem or ISDN-card certified by Honeywell

Possible field of application / Integration variety

Basic versions

Standard package, including Firebird database:

- Delivery on CD-ROM

For ordering the end user data sheet is required.

Very often a change from basic to professional package requires considerable involvement of the Albstadt´s research and development demartment.

Customer liaison and support for change of database is not included in the scope of delivery of IQ MultiAccess and must be ordered separately. The exact effort must be specified individually. The day rate is 760,00 €.

For demonstration and test purposes:
- Manages a max. of 10 data carriers (persons)
- Communication with the access control central units is possible a max. 500 days after installation
- Only available as standard package (installation by enclosed SQL database)
- No options (several locations, zone change control, gate keeper module incl. image comparison, badging) available
- Simple update to fully functional version possible

029600	**IQ MultiAccess Demo Version**
029601	**Basic Version - IQ MultiAccess for 300 ID-cards**
029602	**Basic Version - IQ MultiAccess for 500 ID-cards**
029603	**Basic Version - IQ MultiAccess for 800 ID-cards**
029604	**Basic Version - IQ MultiAccess for 1,000 ID-cards**
029605	**Basic Version - IQ MultiAccess for 1,500 ID-cards**
029606	**Basic Version - IQ MultiAccess for 2,000 ID-cards**
029607	**Basic Version - IQ MultiAccess for 3,000 ID-cards**
029608	**Basic Version - IQ MultiAccess for 5,000 ID-cards**
029609	**Basic Version - IQ MultiAccess for 7,500 ID-cards**
029610	**Basic Version - IQ MultiAccess for 10,000 ID-cards**
029646	**Basic Version - IQ MultiAccess for more than 10,000 ID-cards**

IQ MultiAccess Pro package

Performance Features

see IQ MultiAccess standard package

Pro package, prepared for data storage in the standard SQL database, possible for:

- Microsoft SQL Server
- Oracle
- IBM DB/2
- others upon request
- Delivery on CD-ROM

For ordering the end user data sheet is required.

Very often a change from basic to professional package requires considerable involvement of the Albstadt´s research and development demartment.

Customer liaison and support for change of database is not included in the scope of delivery of IQ MultiAccess and must be ordered separately. The exact effort must be specified individually. The day rate is 760,00 €.

029631	Professional Package - IQ MultiAccess, 300 cards, prep. f. SQL databases
029632	Professional Package - IQ MultiAccess, 500 cards, prep. f. SQL databases
029633	Professional Package - IQ MultiAccess, 800 cards, prep. f. SQL databases
029634	Professional Package - IQ MultiAccess, 1,000 cards, prep. f. SQL databases
029635	Professional Package - IQ MultiAccess, 1,500 cards, prep. f. SQL databases
029636	Professional Package - IQ MultiAccess, 2,000 cards, prep. f. SQL databases
029637	Professional Package - IQ MultiAccess, 3,000 cards, prep. f. SQL databases
029638	Professional Package - IQ MultiAccess, 5,000 cards, prep. f. SQL databases
029639	Professional Package - IQ MultiAccess, 7,500 cards, prep. f. SQL databases
029640	Professional Package - IQ MultiAccess, 10,000 cards, prep. f. SQL databases
029647	Professional Package - IQ MultiAccess, > 10,000 cards

IQ MultiAccess database extension

IQ MultiAccess licence extension:

- All settings are preserved
- All data are transferred
- for standard and pro packages
- possible later on at any time
- Simple installation via a single licence file

For ordering the end user data sheet is required.

029611	**Database Expansion - IQ MultiAccess from 300 to 500 ID-cards**
029612	**Database Expansion - IQ MulitAccess from 500 to 800 ID-cards**
029613	**Database Expansion - IQ MultiAccess from 800 to 1,000 ID-cards**
029614	**Database Expansion - IQ MultiAccess from 1,000 to 1,500 ID-cards**
029615	**Database Expansion - IQ MultiAccess from 1,500 to 2,000 ID-cards**
029616	**Database Expansion - IQ MultiAccess from 2,000 to 3,000 ID-cards**
029617	**Database Expansion - IQ MultiAccess from 3,000 to 5,000 ID-cards**
029618	**Database Expansion - IQ MultiAccess 5,000 to 7,500 ID-cards**
029619	**Database Expansion - IQ MultiAccess 7,500 to 10,000 ID-cards**
029620	**Database Expansion - IQ MultiAccess > 10,000 ID-cards**

IQ MultiAccess Options

029621 **Client processing ability, multi-location ability**

Honeywell OPTION Software

IQ MultiAccess extension package

Creation of any desired number of locations (in standard version only 1 location possible).
In addition, implementation of:
- Multi-client processing ability (several companies share a AC system in a building)
- Multi-location ability (a company is spread over several locations)
- All settings are preserved
- All data are transferred
- for standard and pro packages
- possible later on at any time
- Simple installation via a single licence file

For ordering the end user data sheet is required.

029622 **Zone change control, balancing, blocking of repeated access options**

IQ MultiAccess extension package

All functions can also be carried out globally, i.e., for ALL connected doors, via a server process, this requires a permanent server operation.

Barring repeated entry (BRE) at the level of the access control panel, globally (via server).
The barring repeated entry function checks whether a blocking time has been defined for the ID card used for booking in the zone to be entered.

Balancing of the persons registered in the areas in questions as present or absent and the event control based on this (counter control), for example activation of building automation when last person has left the area.

Anti pass back at the level of the access control panel, globally (via server).
The antipassback function checks whether the ID card used for booking is currently in the zone which it is about to leave.

For ordering the end user data sheet is required.

Zone panel

Virtual PC area tableau

for clear coloured display of the zones and of the persons in it in tabular form.

- All settings are preserved
- All data are transferred
- for standard and pro packages
- possible later on at any time
- Simple installation via a single licence file

029624 **Gate keeper module with image comparison option**

Honeywell OPTION Software

IQ MultiAccess extension package:

- Automated comparison of the identification photo with the person just entering
- Special module tailored to the gate keeper's tasks
- Photographing the person just entering by live camera (webcam or the like) possible (camera not included)
- Storage of short image sequences on hard disk
- Identity check by random generator
- All settings are preserved
- All data are transferred
- for standard and pro packages
- possible later on at any time
- Simple installation via a single licence file

For ordering the end user data sheet is required.

Image comparison - display only or enabling/disabling option

Image comparison - person´s check via ramdom generator

029625 **ID card and form management option**

IQ MultiAccess extension package:

- Taking pictures by USB and webcams*
- Easy control and triggering of the camera from IQ MultiAccess
- Signature capture via signature pad*
- Transfer of personnel data via passport/document scanner
- Creation of data carrier and formula designs
- Integration of images and logos
- Printout on card printers and standard printers
- Printout of staff and visitor data carriers
- Printout of forms for staff briefing and visitor data carriers

- All settings are preserved
- All data are transferred
- for standard and pro packages
- possible later on at any time
- Simple installation via a single licence file

*Hardware not included

For ordering the end user data sheet is required.

Function chart

Recommended signature pads:

SigLite 1x5 LCD (T-LBK460SE-H170)
SigGem 4x3 LCD (T-LBK755SE-BHSB)

Signature pads can be purchased from:

signotec
Am Gierath 20 b
D-40885 Ratingen
Phone: +49 (0) 2102/53575-10
Fax: +49 (0) 2102/53575-39
info@signotec.de
www.signotec.com

Passport scanner DESKO MPR 7100

DESKO
Gottlieb-Keim-Str. 56
D-95448 Bayreuth
Phone: +49 (0) 921/792790
Fax: +49 (0) 921/7927914
info@desko.de
www.desko.de

Please note, that the above mentioned companies are not part of Novar GmbH and a separate contract must be placed.
Novar GmbH is in no case responsible for products or services of those companies.

029626 **Connection to intrusion detection control panel option**

IQ MultiAccess extension package

- Integration of MB100 (order no. with index .10), MB48 and MB24 into IQ MultiAccess by on-demand connection per ISDN or analogue or dedicated line connection by TCP/IP (including encryption) via the control panel dialler or IGIS-LOOP.
- Automatic recognition and installation of the intrusion detection control panel hardware in IQ NetEdit.
- Bidirectional data exchange between IQ MultiAccess and intrusion detection control panel. Master data from the intrusion detection control panel are retrieved by IQ MultiAccess and managed centrally from this point onward. (Data carriers, room/time zones, rights for access, arming/disarming and controls.) The intrusion detection control panel transmits events as bookings to IQ MultiAccess.
- User rights can be set in accordance with VdS by mouse click.
- The virtual operating unit “IQ User ContorlCenter” option enables arming / disarming, switching on / off detector groups, viewing alarm and event memory, activating walk test, starting macros and maintenace functions of all intruder alarm control panels connected to IQ MultiAccess.
- Entries of the event memory of the IACP can be evaluated in IQ MultiAccess by using all the advantages of individual list layout. Last but not least, there are export functions to the data formats EXCEL, TXT, HTML and XML.
- This allows limited AC functionality with the MB control panel.

For the full AC functionality, ACS-2/8 are required.

The integrated option “IQ User ContorlCenter” enables:

- arming/disarming
- blocking/enabling of detector groups
- display of alarm and event memory
- activating of walk test
- macro triggering
- maintenance functions

of all IACPs connected to IQ MultiAccess

For ordering the end user data sheet is required.

Functional diagram

013598 Option IACP User ControlCenter for PC, IQSC or IQMA

Option IACP-connection to IQ MultiAccess (029626) and IQ SystemControl (013596) contain one virtual operating unit each.

Further virtual IACP operating units (013598) are only required when additional operating units need to be operated simultaneously (e.g. on seperate computers).

For ordering the end user data sheet is required.

029650 Option SALTO connection

Extension package for IQ MultiAccess or IQ SystemControl

Salto Virtual Network is a variation of the access control at offline door cylinders and fittings. All access authorisations are on the data carrier. They will regularly be updated at a central place (at least once a day) via a reader with write functionwhich is online connected to the SALTO software.

Information on disabled transponders will be written onto each data carrier that books at the online reader and distributed to all doors the transponder is presented. Thereby a misusage of a found or stolen data carrier will be prevented to the greatest possible extent.

Should the disabled transponder already be within the building and be used to book at a door that already has got the disabling information from another transponder, it will be marked as disabled and has no more access to any door.

In return events (bookings, battery status) of the doors will be written onto the data carriers with the next reading at the online reader and tranferred to the SALTO-Software and from there to IQMA / IQSC.

Data updates at each door via a separate programming device (PDA, Laptop) is no longer applicable in daily business as the data are on the transponders and not at the door cylinders / fittings.

Blacklists are distributed by the users of the transponders, events of the doors will return in the same way back to the access control software.

As data are to be written onto the transponders, at the moment this function is available with mifare transponders only (classic / DESFire EV1).

This option includes the SALTO software, that is to be installed together with IQ Multi-Access / IQ SystemControl, inclusive an interface for data exchange between IQMA / IQSC and SALTO. The enduser furthermore works in IQMA / IQSC only and doesnot have to learn and use a further application.

The installer once has to set up the door data in the SALTO software and distribiute them via a programming device to the doors during initial installation.

This option can be used with SALTO components only (see chapter “Virtual network”).

For ordering the end user data sheet is required.

029651 Number of SALTO readers

IQ MultiAccess and IQ SystemControl check the number of SALTO readers. As a maximum only as much SALTO readers as are enabled in the license file of IQMA / IQSC can be operated. Therefore this option must additionally be ordered for each SALTO reader (UBOX, Encoder, online reader door cylinder* / door fitting*).

This option is included in the Honeywell price of the door gylinders / fittings and will be discounted by 100%. For each door cylinder / fitting not purchased from Honeywell it is with costs.

*For douple site reading cylinders fittings this option is required **per door side.**

For ordering the end user data sheet is required.

029652 Option TBS finger scanner

NEW

Extension package for IQ MultiAccess

This option enables the connection of TBS finger scanners. It contains the interface to the TBS software for learning and administration of the finger templates integrated in IQ Multi-Access.

For ordering the end user data sheet is required.

The appropriate TBS terminals are expected to be available at Honeywell by mid / end of Q4 2013.

Upgrades

*** The following items are upgrades basic packages of IQ MultiAccess.**

Very often a change from basic to professional package requires considerable involvement of the Albstadt´s research and development demartment.

Customer liaison and support for change of database is not included in the scope of delivery of IQ MultiAccess and must be ordered separately. The exact effort must be specified individually. The day rate is 760,00 €.

029641 MultiAccess for Windows upgrade to IQ MultiAccess

- Automatic update procedure*
- Transfer of the following components created in MultiAccess for Windows V7.1: System data, hardware, device groups, macros, departments, calendar days and public holidays, time zones and automatic zones, personal records, actions, doors
- Uses the option packages already purchased for MultiAccess for Windows
- Update to the same or the next higher number of staff
- Updates of predecessor versions of MultiAccess for Windows V7.1 must have been performed previously to V7.1 and are included in the package.

029642 Upgrade MultiAccess Lite to IQ MultiAccess

- Automatic update procedure*
- Transfer of the staff records stored in MultiAccess Lite
- Transfer of the created access control central units and doors
- Update to 800 persons

029643 Upgrade IQ SystemControl to IQ MultiAccess

- Update to 600 persons*
- Continued use of all connected intrusion detection control panels, expandable by access control panels and door elements

029645 Upgrade of IQ MultiAccess predecessor version to latest version

- Automatic update procedure*
- Uses the selected SQL database
- Transfer of the stored personnel records
- Transfer of the created access control central units and doors
- Uses the already purchased option packages
- Update to the same number of staff

Notizen

Network components and Maintenance

- Interface converters
- Interfaces

Interface converter

026817.03 Interface converter

This interface converts has an RS-232 interface connection at the input and two RS-485 interface connections connected in parallel at the output, (either 3-wire or 5-wire, as desired).

In addition, this unit has a power supply unit (integrated in the RS-485 plug output) of 12 V / 0.8 A DC.

Without serial connection cable 026809.
9-pole jacks not included.

In connection with NovaTime only 5 wire operation possible.

Accessories - Interface converter

026809 Serial connecting cable

The cable is used to connect a serial COM interface to:

- current intrusion detection control panels HB/MB24, HB/MB48 and MB100
- an interface converter 026817.03
- an ACS-2 or ACS-8 for hardware setup

Technical Data

Connection plug	9-pole/jack - 9-pole/jack
Length	3 m

026109 PC adapter cable RS-232/9-pin Sub-D

Equipped with 3-pin plug connector for connecting a PC and ACT control in case of direct connection.

Technical Data

Connection plug	9-pole/jack - 3-pole/plug connector
Length	approx. 2 m

Modem

058200 High-speed modem V.90 external

External unit with plug-in power supply.

Not for intrusion detection control panel 100-AB8/dialler.
For access control: Connection to ACS-8 directly without interface card. Connection to PC via RS-232. It is strongly recommended using only this mode for connecting remote locations to the access control.

connecting cable RJ11 to TAE N, RS-232 connecting cable 25M to 9/25 F.

Performance Features

- HAYES AT compatible
- Pulse and multi-frequency dialling, full and semi-duplex
- Auto dial, Auto answer, automatic switchover between data and voice transmission
- V.24 bis /MNP5 data compression
- FAX according to: V.17, V.33, V.29 and V.27ter
- Compatible with: CCITT V.21, V.22, V.22 bis / V.32 / V.32 bis / 34 V, K 56 flex, V.90 (up to 56,000 baud)

Interface cards

The listed interfaces are designed for in-house operation. The line length of the potential-separated RS-485 interface is max. 1,200 m. The RS-232 interface supports max. 15 m.

When coupled via the Current Loop interface, the maximum distance is 2,000 m.
For bus systems, one RS-485 interface without potential separation must be used.

To ensure safe data exchange, interfaces with potential separation are recommended for the remaining units.

026840.03 Asynchronous RS-232 host interface

2,400 to 19,200 baud.

Max. cable length 15 m.

For ACS-2 plus, ACS-8, TRS 6 and TRS 8.

026692 RS -485 interface (5-wire and 3-wire)

Without potential separation.

Max. cable length 1,200 m.

For ACS-2 plus, ACS-8, ACT, TRS 6 and TRS 8.

026693 RS -485 interface (5-wire and 3-wire)

Potential separation can be enabled/disabled via jumper.

Max. cable length 1,200 m.

For ACS-2 plus, ACS-8, ACT, TRS 6 and TRS 8.

026840.29 Ethernet interface 10/100 Mbits/s

Switches automatically for 10 / 100 Mbits/s.

For ACT, ACS-2 plus, ACS-8, TRS 6 and TRS 8.

027901 Reader converter board

This converter board makes it possible to operate readers and biometric systems from other manufacturers and older Esser and effeff readers at the access control panels ACT, ACS-2 plus and ACS-8 and at the TRS T&A terminals.

As-delivered, the board is built into a housing, to allow it to be installed independent of the constructional situation. However, it is also possible to integrate it in the ACS-8.

Input of readers of other brands:

- Clock/Data
- Wiegand

Interface to access control panel/host:

- RS-232 (same as reader 026380.00)
- RS-485
- Clock/data (only with certain readers)

Many reader models from the following manufacturers are supported:

Deister, HID, Simons & Voss, Westinghouse, different biometrics systems as well as the connection of the UBOX9000 for integration of SALTO Virtual Network (SVN), see register 17.

The exact types as well as other types are available on request.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V DC to 15 V DC
Current consumption	25 mA + reader current
Type of protection EN 60529	IP30
Operating temperature range	-10 °C to +55 °C
Environmental class as per VdS	II
Colour of housing	grey white
Dimensions PCB (W x H x D)	72 x 50 x 23 mm
Dimensions PCB in housing (W x H x D)	109 x 85 x 30 mm

Wireless door systems (SALTO)

- Integration SALTO Virtual Network in IQ MultiAccess and IQ SystemControl

029650 Option SALTO connection

Extension package for IQ MultiAccess or IQ SystemControl

Salto Virtual Network is a variation of the access control at offline door cylinders and fittings. All access authorisations are on the data carrier. They will regularly be updated at a central place (at least once a day) via a reader with write functionwhich is online connected to the SALTO software.

Information on disabled transponders will be written onto each data carrier that books at the online reader and distributed to all doors the transponder is presented. Thereby a misusage of a found or stolen data carrier will be prevented to the greatest possible extent.

Should the disabled transponder already be within the building and be used to book at a door that already has got the disabling information from another transponder, it will be marked as disabled and has no more access to any door.

In return events (bookings, battery status) of the doors will be written onto the data carriers with the next reading at the online reader and tranferred to the SALTO-Software and from there to IQMA / IQSC.

Data updates at each door via a separate programming device (PDA, Laptop) is no longer applicable in daily business as the data are on the transponders and not at the door cylinders / fittings.

Blacklists are distributed by the users of the transponders, events of the doors will return in the same way back to the access control software.

As data are to be written onto the transponders, at the moment this function is available with mifare transponders only (classic / DESFire EV1).

This option includes the SALTO software, that is to be installed together with IQ Multi-Access / IQ SystemControl, inclusive an interface for data exchange between IQMA / IQSC and SALTO. The enduser furthermore works in IQMA / IQSC only and doesnot have to learn and use a further application.

The installer once has to set up the door data in the SALTO software and distribiute them via a programming device to the doors during initial installation.

This option can be used with SALTO components only (see chapter “Virtual network”).

For ordering the end user data sheet is required.

029651 Number of SALTO readers

IQ MultiAccess and IQ SystemControl check the number of SALTO readers. As a maximum only as much SALTO readers as are enabled in the license file of IQMA / IQSC can be operated. Therefore this option must additionally be ordered for each SALTO reader (UBOX, Encoder, online reader door cylinder* / door fitting*).

This option is included in the Honeywell price of the door cylinders / fittings and will be discounted by 100%. For each door cylinder / fitting not purchased from Honeywell it is with costs.

*For douple site reading cylinders fittings this option is required per door side.

For ordering the end user data sheet is required.

Product description

Performance Feature

- Data exchange via SVN
- Access events of users are stored as access/event protocol directly on the transponder.
  (visitor movements, staff movements).
- Cylinder- / fitting related informationen like battery status are stored on the ident medium and administrated in the management software of the PC (IQMA / IQSC).
- Blacklist - information on lost or stolen transponders will be transferred to the cylinders / fittings via authorized ident media.
  The lost transponders will be blocked for the whole system.
- No special ident mediea or additional staff for the distribution of information in SVN.
  All authorized identmedia owners can be used for information exchange within the SVN.
  (Pay attention of memory capacity of the ident medium!)
- Updating of access profiles
- Online control unit with SVN functionality required for data exchange between ident media and the PC
- Access events (the last accesses) are stored in the event memory of the cylinder / fitting

Doors to which wiring is not possible or desired can alternatively be equipped with electronic door cylinders or fittings.

Besides a genuine **offline** or **online** solution there is a possibility of a **virtual networking**. At this, the access control authorizations are no longer stored at the door components, but on the individual transponders. Those will be updated by regularly presentation at a reader with write fuction with an online connection. At the same time information on invalid will be distributed to all doors, the transponder is presented. If a stolen or lost tranponder is presented to the onlinereader or a door which has already received the information of blocked data carriers, it wiill be blocked for the whole system. A separate distribution of updates via a programming medium as it is necessary with a pure offline solution does not apply with this variant.

The virtual networking is based on the integration of SALTO components, which are leading in virtual network technology. It consists of an interface between IQ MultiAccess / IQ SystemControl and the SALTO software.

Operation requires the IQMA / IQSC options SALTO connection (item no. 029650), no. of SALTO readers (item no. 029651) and the SALTO components of the following pages.

Recommended transponders:

SALTO requires minimum 512 Bytes free memory space
(efficient for the full range of authorizations incl. blacklist and 20 events).

Better: 1 kByte free, corresponds to 100 events.

The maximum segmet size to be supported is 1 kByte.

The door fittings and cylinders will be **customized** manufacured according to the order information.

Therefore redemptions are not possible. For finding the apropriate order numbers there is a configurator available on the Honeywell homepage.

By clicking the required information the individual item with its unique order number will be put out. Some options are at surcharge. They will be indicated accordingly.

Configurator

For the virtual networking via the IQMA / IQSC option SALTO connection (item no. 029650) the SALTO components of the following pages are available.

The fittings and door cylinders will be manufactured customer specific according to the order data. Therefore we will not accept any returns.

To find out the individual order numbers Honeywell provides a configuration tool on their homepage. By simply clicking the required information the appropriate item with its order number will be created. Some options are at extra charge and will be indicated accordingly.

The lead time is ca. 38 days as of incoming order.

Artikelnummer	Preis 1	Zusatz 1	Preis 2	Zusatz 2	Preis 3	Zusatz 3	Preis 4	Zusatz 4	Preis 5	Salto Originalnummer	Artikeltext
G9E20		SA0020								G9E2050S35CPBD	SALTO GEO elektr

The display of the item numbers is restricted to the master numbers and the surchargeable variants. The actual item numbers are displayed by the configurator..

Door cylinders

Performance Features

- Electronic door cylinder with electronic knob control system for bolt activating
- Technologies of identification:
  - mifare DESFire EV1 Proximity R/W
  - LEGIC advant Proximity R/W
- Outside knob is free wheeling or engaged with authorized identification medium
- Inside knob is always enableded (anti panic function)*
- Slim and timeless elegant knob shape - also suitable for tube frame doors
- Profile system Euro or Swiss round cylinders
- Removable knob, battery change from outside possible
- Removing outside knob only possible with special tool
- Knob optional available with 5 mm or 10 mm lengthening
- Drill protection placed in core and housing
- Core pulling protection
- Weatherproofing IP66 standard
- Electronics in protected core of cylinder
- Reading device and battery integrated discretly in outside knob
- No electronics in inside knob*
- Cylinders with R/W function, i. e. not only reading but also writing on the transponders - Precondition for SVN-function
- Wireless and radioless data networking between the cylinders and the access control software via SVN-function that manages the data exchange using the transponders of the individual system
- Suitable for conforming to standards mounting on standard european mortise locks and fittings according to technical examination
- “Stand alone” installation, i. e. no wiring in door and/or frame required
- Acoustical and optical signalling for authorized/not authirized transponder
- Power optimized time and date chip with automatical daylight saving time change
- Memory capacity of cylinder: up to 1,000 access events

GEO (Global Electronic Opening) electronic cylinder is an autonomic access control minimized to a door cylinder for contactless write enabled transponders. It is used if a virtual network (data transfer via transponders) is required.

This wireless access control component enables an uncomplicated installation and retrofitting of existing doors simply by changing the door cylinder.

The GEO cylinder helps to realize different access requirements:

- Double knob cylinders with one-sided electronic access control
- Double knob cylinders with both-sided (even different) access control
- Electronic half cylinders

The GEO cylinder is a universal to be used, battery-drivene locking device which will be manufactured customer specific.

The reading electronics as well as the mechatronics are together with the batteries in the reader module. The GEO cylinders are suitable for DIN euro profile or Swiss round cylinders. There are no complex installations necessary. This makes the GEO cylinder a cost-saving solution for new buildings as well as for existing objects. Write enabled transponders serve as identification media.

Setup and modification of the access data via a separate programming device is no longer applicable as with the virtual network the access authorizations are stored on the transponders. Relevant data (blacklist, bookings, battery status) are distributed via the transponders.

The cylinders are available in the surfaces:

- Chrome satined
- Chrome polished
- Chrome black polished
- Brass matt finished
- Brass poloshed
- BioCote® (antibacterial)

optional with anti panic version.

Available cylinder lengths:

Outside: 30 mm - 100 mm (in 5 mm steps)

Inside: 10 mm, 30 mm - 100 mm (in 5 mm steps)

The individual possible combinations are shown in the configurator.

Technical Data

Knob and housing material	Brass
Min. cylinder length	30/K30; in 5 mm steps from 30 mm inside and outside
Panic cylinder	as of cylinder length 30/K30
Outsinde knob	Diameter 38 x 40 mm
Inside knob	optional with recessed grip or oval
Power supply	1 x sandard battery Lithium 3 V Type CR2
Environmental class	IP 66 standard
Operating voltage range	-20° C to +70° C

- Battery lif duration on average 3 years or 40,000 openings, no external power supply required
- No data loss in case of battery change or battery failure
- Easy change of batteries - even for user without any practice
- Condition in case of battery failure - outside knob remains released - according to law requirement
- Low battery message ca. 1,000 operations in advance
  (deep buzzer tone, delayed knob release!)
- Emergency opening and emergency power supply of offline locking elements possible via a mobile programming device. Due to security reasons the progframming device must be authorized for emergency openings in the PC software in advance.
- Extended exis of outside knob possible for use with safety fitting
- Suitability for use in fire doors up to T30 doors pending

* double knob cylinders only

Possible variants of knobs

Dimensions (mm)

G9E10 Euro profile half cylinder, mifare

Technical Data

Dimensions (L x W x H)	100 x 52 x 64 mm
Weight	0,28 kg

Dimensions (mm)

G9E20 Euro profile standard cylinder, mifare

Reader outside, rotary knob inside.

Technical Data

Dimensions (L x W x H)	200 x 52 x 64 mm
Weight	0,4 kg

Dimensions (mm)

G9E30 Euro profile double cylinder, mifare

Readers on both sides.

Technical Data

Dimensions (L x W x H)	200 x 52 x 64 mm
Weight	0,4 kg

Dimensions (mm)

G9P10 **Electronic padlock, mifare**

The SALTO GEO padlock has not been designed for rough environment and should not be used for installations the reader could be damaged, e. g. with gate chains that could cause the reader falling down.

Dimensions (mm)

L9050A **Locker, mifare**

Locker to equip / refit wardrobes, lockers etc. Surface mounting, sandwitch construction with reading device outside and box staple inside. No handle direction, applicable for right and left. Suitable for door thicknesses > 20 mm.

Technical Data

Dimensions (L x W x H)	190 x 130 x 55 mm
Weight	0,65 kg

SA0130 **Surcharge for cylinders Gxx1**

Total length 65 - 100 mm.

SA0150 **Surcharge for cylinders Gxx2, Gxx3 and GxP21**

Total length 85 - 100 mm.

SA0160 **Surcharge for cylinders Gxx2, Gxx3 and GxP21**

Total length 105 - 120 mm.

SA0170 **Surcharge for cylinders Gxx2, Gxx3 and GxP21**

Total length 125 - 145 mm.

SA0190 **Surcharge brass for cylinders**

SA0200 **Surcharge anti panic for cylinders**

SA0210 **Surcharge round rotary knob for cylinders**

SA0070 Surcharge BioCote®

"Antimicrobial' describes a substance with the possibility to resist the growth of microbes, e. g. bacteria and moulds. BioCote® antimicrobial protection is based on silver ion technology.

This technology, in the form of an additive, is incorporated into products at the time of manufacture. Extensive testing has proven BioCote® will retain its antimicrobial properties, providing continuous antimicrobial protection for the lifetime of the product

BioCote® surfaces are excellently suited for use in hospitals, laboratories in food industry etc.

On BioCote® protected surfaces it has been shown that levels of microbes can be reduced by up to 99.9%.

All BioCote® protected products are regularly validated and quality control tested to ISO 22196 where applicable, in an independent laboratory.

The BioCote® brand is a guarantee of superior antimicrobial performance to protect product surfaces from deterioration.

Fittings

The XS4 safety fitting is an automatical access control for touchless write enabled transponders integrated in a door fitting. It is used of a virtual network is required (data transfer via transponder).

This wireless access control component enables an uncomplicated mounting and refitting of existing doors by replacing the door fitting.

Feeding and modification of the access data via a separate progeramming device is in applicable as the virtuall network uses the transponders to store the access authorizations. Relevant data, blacklist, bookings, battery status are distributed via the transponders.

Technical Data

Material of outside parts	Stainless steel
Follower	8 mm Standard dimensions optional 7 mm or 9 mm according to DIN 18273 (for fire and smoke protection doors)
Dimensions without handle	XS4-fitting 40mm: 282 × 40 x 20 mm; XS4-fitting 67 mm: 290 x 67 × 20 mm
Operating temperature range	outside: -20 °C to +70 °C without icing; inside: 0 °C to +50 °C, as the battery lifetime decreases up to 50 % at < 0 °C
Air humidity inside	up to 90 % (without condensation)
Temperature difference inside - outside	max. 70 °C
Type of protection EN 60529	IP56
Water condensation	no damaging of electronic parts - varnished printed board
Door leaf thickness	30 mm to 120 mm
Axle-base	with profie cylinders: 72, 78, 85, 88 und 92 mm, with round cylinders: 74, 78 und 94 mm
Cylinder hole	Euro profile clinder or Swiss round profieclzylinder
Power supply	3 Standard batteries type AAA Alkaline 1,5 V

Performance Features

- Electronic fitting with electronic handle control system for latch blocking
- Identification technology: mifare Proximity R/W
- Outside handle is released (free wheeling) and engaged with authorized transponder
- Inside handle always enabled (anti panic function)
- 40 mm (for tube frame doors also), 55 mm for DIN doors or 67 mm, slim and timeless elegant fitting design
- For refitting: wider cover plates (45 - 110 mm) optional available
- Tamper and manipulation protection: batteries in protected inslide area
- Drill protection in outside plate
- Reading device integrated discreetly in outdide plate
- Fitting with R/W function, i. e. not only reading but also writing on the transponders - Precondition for SVN-function
- Wireless and radioless data networking between the fittings and the access control software via SVN-function that manages the data exchange using the transponders of the individual system
- With mechanical half cylinder for mechanical emergency opening which is logged electronically
- Suitable for conforming to standards mounting on standard european mortise locks under consideration of handle distance, fixing holes, latch of lock dimension and axis distance
- Mortise locks with anti panic function or multi-locking applicable
- “Stand alone” installation, i. e. no wiring in door and/or frame required
- Pair of handles included in scope of delivery
- Standard handles applicable on request (8 mm square handle bolt)
- Acoustical and optical signalling for authorized/not authirized transponder
- Power optimized time and date chip with automatical daylight saving time change
- Memory capacity of fitting: up to 1,000 access events
- Battery lif duration on average 4 years or 55,000 openings, no external power supply required
- No data loss in case of battery change or battery failure
- Easy change of batteries - even for user without any practice
- Condition in case of battery failure - outside handle remains released - according to law requirement
- Low battery message ca. 1,000 operations in advance (deep buzzer tone, delayed knob release!)
- Emergency opening and emergency power supply of offline locking elements possible via a mobile programming device. Due to security reasons the progframming device must be authorized for emergency openings in the PC software in advance.
- Time controlled and manual permanent opening possible (no increased power consumption) due to special design of mechanics and electronics (support of IQMA and IQSC in preparation)
- Weather protection IP 56 Standard
- Compatible with standard European mortise locks with a bolt of a lock way for latch and/or bolt retracting at < 33 degrees
- Handle mounted torque proof
- Distance from upper mounting hole to mid of latch: 105 mm; distance from lower mounting hole to mid of latch: 145 mm
- For inside use; with outside mounting intrusion of humidity can cause a temporarily malfunction
- Compliant for fire doors up to T30-doors, with T90-doors depending on the individual doors

E9450 Fitting mifare, slim, 2 x handle

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E9451 Fitting mifare, slim, 2 x handle, rotary knob inside

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E9452 Fitting mifare, slim, 2 x handle, 2 x cylinder hole

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E9453 Fitting mifare, slim, 2 x handle, cylinder hole inside

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E9454 Fitting mifare, slim, 2 x handle, cylinder hole outside

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E9456 Fitting mifare, slim, 2 x handle

"Do not disturb" function.

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E9457 Fitting mifare, slim, 2 x handle, cylinder hole outside

"Do not disturb" function.

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E9460 Fitting mifare, slim, 2 x handle, cylinder hole outside

Logged em. opening.

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E94P0 Fitting mifare, slim, 2 x handle

Cylinder for logged emergency openir

Logged emergency opening.

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E9466 Fitting mifare, slim, 2 x handle,cyl.hole, outside

Cylinder for logged emergency opening

"Do not disturb" function, logged em ergencyopening.

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E94K0 Fitting mifare, slim, handle outside, rotary knob inside

SKG certified.

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E94K2 Fitting mifare, slim, 2 x handle, 2 x cylinder hole

SKG certified.

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E94K4 Fitting mifare, slim, 2 x handle, cylinder hole outside

SKG certified.

Technical Data

Dimensions (H x W x D)	282 x 40 x 35 mm
Weight	1,96 kg

Dimensions (mm)

E9550 Fitting mifare, for DIN drill holes, 2 x handle

Technical Data

Dimensions (H x W x D)	outside: 269 x 55 x 37,5 mm; inside: 290 x 67 x 20 mm
Weight	2,12 kg

Dimensions (mm)

E95P0 Fitting mifare, slim, 2 x handle

Logged emergency opening.

Technical Data

Dimensions (H x W x D)	outside: 269 x 55 x 37,5 mm; inside: 290 x 67 x 20 mm
Weight	2,12 kg

Cylinder for logged emergency opening

Dimensions (mm)

E95P6 Fitting mifare, for DIN drill holes, 2 x handle

"Do not disturb" function, logged emergency opening.

Technical Data

Dimensions (H x W x D)	outside: 269 x 55 x 37,5 mm; inside: 290 x 67 x 20 mm
Weight	2,12 kg

Cylinder for logged emergency opening

Dimensions (mm)

E9650 Ffitting mifare, wide, 2 x handle

Technical Data

Dimensions (H x W x D)	290 x 67 x 35 mm
Weight	2,12 kg

Dimensions (mm)

E9651 Ffitting mifare, wide, handle outside, rotary knob inside

Connection for mortise lock.

Technical Data

Dimensions (H x W x D)	290 x 67 x 35 mm
Weight	2,12 kg

Dimensions (mm)

E9652 Ffitting mifare, wide, 2 x handle, 2 x cylinder

Technical Data

Dimensions (H x W x D)	290 x 67 x 35 mm
Weight	2,12 kg

Dimensions (mm)

E9653 Ffitting mifare, wide, 2 x handle, cylinder hole inside

Technical Data

Dimensions (H x W x D)	290 x 67 x 35 mm
Weight	2,12 kg

Dimensions (mm)

E9654 Ffitting mifare, wide, 2 x handle, cylinder hole outside

Technical Data

Dimensions (H x W x D)	290 x 67 x 35 mm
Weight	2,12 kg

Dimensions (mm)

E9656 Ffitting mifare, wide, 2 x handle, Do not disturb

Technical Data

Dimensions (H x W x D)	290 x 67 x 35 mm
Weight	2,12 kg

Dimensions (mm)

E9657 Ffitting mifare, wide, 2 x handle, cylinder hole outside

"Do not disturb" function.

Technical Data

Dimensions (H x W x D)	290 x 67 x 35 mm
Weight	2,12 kg

Dimensions (mm)

E9658 Ffitting mifare, wide, handle outside, rotary knob inside 90°

Connection for mortise lock.

Technical Data

Dimensions (H x W x D)	290 x 67 x 35 mm
Weight	2,12 kg

Dimensions (mm)

E96P0 Ffitting mifare, wide, 2 x handle, logged emergency opening

Technical Data

Dimensions (H x W x D)	290 x 67 x 35 mm
Weight	2,12 kg

Cylinder for logged emergency opening

Model P

Dimensions (mm)

E96P8 Ffitting mifare, wide, handle outside, rotary knob inside 90°

Connection for mortise lock.

Technical Data

Dimensions (H x W x D)	290 x 67 x 35 mm
Weight	2,12 kg

Cylinder for logged emergency opening

Model P

Dimensions (mm)

SA0010 Surcharge Wireless prepared for XS-fittings

Hardware preparation of door fittings or cylinders for radio data transmission.

In preparation.

SA0020 Surcharge Wireless for XS-fittings

Performance Features

Benefits online:

- Realtime battery condition
- Realtime events
- Realtime update of the fittings
- Blocking of lost keys
- Door monitoring for fittings

As an alternative to SALTO Virtual Network, the data exchange can also be done online via radio.

The cylinders / fitings require the appropriate version “Wireless” . Additionaly a send/receive module (Gateway) is required to support the radio connection from/to the doors. There can be used repeaters to manage longer distances between door and gateway.

XS4-Wireless is a new generation of online access control.

It connects battery driven electronic door fittings by using low frequency radio senders/transmitters (2,4 GHz) which are mounted on the inside of the fittings. They interact with the XS4-Gateways (connected via Ethernet / WiFi to the central computer) and the XS4-Repeaters, installed in predefined XS4-Wireless-areas, to realise a wireless realtime access control network.

In the almost unlikely case of a radio interruption the fitting continue working in offline mode as the SALTO standard fittings do. All standard SVN functions remain active.

In preparation.

SA0030 Surcharge 9 mm square for XS fittings fire protection/panic

The fittings are factory provided with an 8 mm square. Different measures are available on surcharge. For fire protection doors and for anti panic version a 9 mm square is required.

Compliant for fire doors up to T30-doors, with T90-doors depending on the individual doors.

SA0040 Surcharge amok for XS fittings

The amok function provides the possibility to disable the reader on the outside of the door in case of danger simply by reading the transponder at the inside reader. Access from outside is only granted by a transponder with special programming which has authorized personnel only, e. g. the police.

SA0050 Surcharge stainless steel polished for XS fittings

SA0060 Surcharge RAL white or black for XS fittings

SA0070 Surcharge BioCote®

"Antimicrobial' describes a substance with the possibility to resist the growth of microbes, e. g. bacteria and moulds. BioCote® antimicrobial protection is based on silver ion technology.

This technology, in the form of an additive, is incorporated into products at the time of manufacture. Extensive testing has proven BioCote® will retain its antimicrobial properties, providing continuous antimicrobial protection for the lifetime of the product

BioCote® surfaces are excellently suited for use in hospitals, laboratories in food industry etc.

On BioCote® protected surfaces it has been shown that levels of microbes can be reduced by up to 99.9%.

All BioCote® protected products are regularly validated and quality control tested to ISO 22196 where applicable, in an independent laboratory.

The BioCote® brand is a guarantee of superior antimicrobial performance to protect product surfaces from deterioration.

SA0080 Surcharge Wireless prepared for glass door fittings

Hardware preparation of glass door fittings for radio data transmission.

Glass door fittings and wireless in preparation.

SA0090 Surcharge Wireless for glass door fittings

Performance Features

Benefits online:

- Realtime battery condition
- Realtime events
- Realtime update of the fittings
- Blocking of lost keys
- Door monitoring for fittings

As an alternative to SALTO Virtual Network, the data exchange can also be done online via radio. The fitings require the appropriate version "Wireless" . Additionaly a send/receive module (Gateway) is required to support the radio connection from/to the doors. There can be used repeaters to manage longer distances between door and gateway. XS4-Wireless is a new generation of online access control.

It connects battery driven electronic door fittings by using low frequency radio senders/transmitters (2,4 GHz) which are mounted on the inside of the fittings. They interact with the XS4-Gateways (connected via Ethernet / WiFi to the central computer) and the XS4-Repeaters, installed in predefined XS4-Wireless-areas, to realise a wireless realtime access control network.

In the almost unlikely case of a radio interruption the fitting continue working in offline mode as the SALTO standard fittings do. All standard SVN functions remain active.

Glass door fittings and wireless in preparation.

Cover plates

The faceplate can be mounted below the fitting an is used to cover rims and/or screw holes of existing escutcheons which are replaced by an electronic door fitting.

2 pieces

COPLE045IM Faceplate (1 pair) 45 mm IM

Technical Data

Material	High-grade steel
Dimensions (L x W x H)	50 x 320 x 4 mm
Weight	0,25 kg

COPLE052IM Faceplate (1 pair) 52 mm IM

Technical Data

Material	High-grade steel
Dimensions (L x W x H)	57 x 320 x 4 mm
Weight	0,29 kg

COPLE055IM Faceplate (1 pair) 55 mm IM

Technical Data

Material	High-grade steel
Dimensions (L x W x H)	62 x 320 x 4 mm
Weight	0,31 kg

COPLE065IM Faceplate (1 pair) 65 mm IM

Technical Data

Material	High-grade steel
Dimensions (L x W x H)	70 x 320 x 4 mm
Weight	0,37 kg

COPLE075IM Faceplate (1 pair) 75 mm IM

Technical Data

Material	High-grade steel
Dimensions (L x W x H)	80 x 320 x 4 mm
Weight	0,43 kg

COPLE085IM Faceplate (1 pair) 85 mm IM

Technical Data

Material	High-grade steel
Dimensions (L x W x H)	90 x 320 x 4 mm
Weight	0,49 kg

COPLE095IM Faceplate (1 pair) 95 mm IM

Technical Data

Material	High-grade steel
Dimensions (L x W x H)	100 x 320 x 4 mm
Weight	0,55 kg

Handles

The fittings can be provided with different shapes of handles. Standard handle is version “U”. Some handle variants are at extra charge.

The varsions “S” and “O” are not mirror symmetric, so the order needs an information of the direction of the handle. The direction is not the same as the DIN direction. It defines the direction the handle points regarding the fitting provided with the reader, independent of the opening direction of the door.

The prices are valid for 1 piece of handle. Each fitting will be delivered with 2 handles (1 x inside, 1 x outside).

1 x inside handle, 1 x outside handle

Y-handle: Y for outside, W for Inside

Direction of the handle

R = right
L = left
only for O- and S-handle

R	RIGHT
L	LEFT

Assignment of the handle is not the same as the DIN direction

SA0100		**Surcharge handle H, Y, S per door side**
SA0110		**Surcharge handle P per door side**
SA0120		**Surcharge handle B per door side**

Installaion accessories

SA0220 SAM-Kit/Software

The SAM-Kit consists of the master key which is required for initializing of data carriers for the “Salto Virtual Network” function.

This kit is required once per project / customer and to request with the first order. It corresponds to the system certificate of conventional locking systems.

The required information will be collected in a separate form sheet.

PPD800 Mobile programming device, mifare/LEGIC

The PPD800 is required for:

- initial setup of the SALTO door components
- diagnosis of the components
- firmware update
- emergency openings

It is a mandatory intaller tool. With one programming device an unlimited number of customer systems can be supported.

If the customer has his/her own device he/she is able to read out data of all cylinders / fittings and provide emergency power.

Technical Data

Connection	USB to PC; 3-pole jack to door components
Power supply	3 x alkali batteries LR03 - AAA 1.5 V
Dimensions (L x W x H)	310 x 235 x 58 mm
Weight	0,51 kg

EC90EN Encoder mifare with Ethernet connection

This read / write device is used to encode the transponders for the SVN functionality.

Addditionally, **it works as a dongle**. Thus, this device is mandatory at least once per project.

Data carriers of the blacklist can be reactivated via this device only.

Technical Data

Dimensions (L x W x H)	310 x 235 x 58 mm
Weight	0,77 kg

incl. PSU

EC90USB Encoder mifare with USB connection

This read / write device is used to encode the transponders for the SVN functionality.

Data carriers of the blacklist can be reactivated via this device only.

This device can be used in adition to EC90EN.

Technical Data

Dimensions (L x W x H)	310 x 235 x 58 mm
Weight	0,77 kg

Online readers

All online readers have read / write function and are connected via Ethernet (TCP/IP) to the workstation the SALTO software is running. Normally this is the same workstation IQ Multi-Access or IQ SystemControl is installed.

The online reader is required for updating of authorizations of transponders and distribution of blacklist information. Bookings and events of doors which are stored on the transponders are read here and transferred to the AC-software. So **at least one** online reder per system is required.

UBOX9000 — Online wall reader station, complete

The UBOX is a set consisting of an online reader incl. all electronics required for connection to the SALTO software and to the RS-485 module bus to connect to ACS-8 or IK3 EU.

Set consisting of:

- **Housing**
- **Wall reader WRM9000**
- **Mounting frame WRMBL1**
- **Control unit incl. Ethernet connection module** (equal to CU50ENSVN without inputs and without relays) for connection to SALTO software for updating the transponders.
- **Interface pcb CUADAP.** This pcb provides a Wiegand interface. Using the Honeywell converter pcb item no. 027901 (order separately), in parallel to the Ethernet-connection a connection to the module, bus can be established which can be used for access control and/or arming / disarming in addition to the update function.

Technical Data

Dimensions (L x W x H)	200 x 120 x 58 mm
Weight	1,15 kg

WRM9000 Modular wall reader, mifare

Illustration/generic photo

Online reader with write function for upddating of transponders of SALTO Virtual Network.

Technical Data

Dimensions (L x W x H)	83 x 83 x 13,5 mm
Weight	0,16 kg

WRM9000E Modular wall reader, mifare for outside with dodger

Illustration/generic photo

Online reader with write function for upddating of transponders of SALTO Virtual Network.

Technical Data

Dimensions (L x W x H)	120 x 120 x 80 mm
Weight	0,68 kg

WRM9000EK Modular wall reader, mifare with keypad

Illustration/generic photo

For outside with dodger.

Online reader with write function for upddating of transponders of SALTO Virtual Network.

Technical Data

Dimensions (L x W x H)	230 x 120 x 80 mm
Weight	1,18 kg

Keyboard support in preparation.

WRM9001 Modular wall reader, mifare

Illustration/generic photo

Online reader with write function for upddating of transponders of SALTO Virtual Network. With interface for PPD use.

Technical Data

Dimensions (L x W x H)	83 x 83 x 13,5 mm
Weight	0,16 kg

WRM9001E Modular wall reader, mifare for outside with dodger

Illustration/generic photo

Online reader with write function for upddating of transponders of SALTO Virtual Network. With interface for PPD use.

Technical Data

Dimensions (L x W x H)	120 x 120 x 80 mm
Weight	0,68 kg

WRM9001EK Modular wall reader, mifare, with keypad

Illustration/generic photo

mifare for outside with dodger.

Online reader with write function for upddating of transponders of SALTO Virtual Network. With interface for PPD use.

Technical Data

Dimensions (L x W x H)	230 x 120 x 80 mm
Weight	1,18 kg

Keyboard support in preparation.

WR9001FS Wall reader, mifare for doors with slim profile

Online reader with write function for upddating of transponders of SALTO Virtual Network. The colmact shape enables mounting at doors with slim profile.

Technical Data

Dimensions (L x W x H)	155 x 115 x 37 mm
Weight	0,17 kg

CUADAP CU adaptor

Control adaptor for connection of SALTO controls with external systems (Online reader to Honeywell module bus RS-485).

This pcb provides a Wiegand interface. Using the Honeywell converter pcb item no. 027901, in parallel to the Ethernet-connection a connection to the module bus can be established which can be used for access control and/or arming / disarming in addition to the update function.

Technical Data

Dimensions (L x W x H)	155 x 115 x 40 mm
Weight	0,10 kg

CU50ENSVN — Online control device for RW+SVN

SALTO read / write online control with SALTO Virtual Network function suitable for online reader series WR9000.

To this pcb 2 readers can be connected which are used to update the transponders with SALTO Virtual Network.

Additional it provides 2 switching outputs.

Technical Data

Dimensions (L x W x H)	310 x 235 x 58 mm
Weight	0,85 kg
Power supply	12 V DC / 500 mA
Loading capacity switching output	16 A with 250 V / AC (capacitive); 8 A with 250 V / AC (inductive); 16 A with 24 V DC
Temperature range	-20 °C to +80 °C

6 VA PSU

Performance Features

- Online-IP-control
- 2 readers / 2 outputs
- Offline-operation on network failure
- Cancels deleted transponders
- Adding and deleting of authorizations on transponders
- Reading out of events from transponders
- Reading out of battery status
- Writing blacklist (invalid transponders) on transponders
- Re-authorization of transponders possible with network failure
- Reader extension with code keypad possible

WRMBH1 — Mounting frame single for s. m. for wall readers

Technical Data

Dimensions (L x W x H)	83 x 83 x 20 mm
Weight	0,05 kg

WRMBH2 — Mounting frame double for s. m. for wall readers

Technical Data

Dimensions (L x W x H)	165 x 83 x 20 mm
Weight	0,05 kg

WRMBL1 — Mounting frame single for f. m. for wall readers

Technical Data

Dimensions (L x W x H)	83 x 83 x 7 mm
Weight	0,05 kg

WRMBL2 Mounting frame double for f. m. for wall readers

Technical Data

Dimensions (L x W x H)	165 x 83 x 7 mm
Weight	0,05 kg

WRMFHAV Vandalism protection frame for WRMBH1

Technical Data

Dimensions (L x W x H)	110 x 110 x 37 mm
Weight	0,05 kg

WRMFWAV Vandalism protection frame for WRMBL

Technical Data

Dimensions (L x W x H)	155 x 115 x 17 mm
Weight	0,05 kg

WRMFS Screw cover for wall readers

Technical Data

Dimensions (L x W x H)	100 x 30 x 10 mm
Weight	0,01 kg

WRMKP Keypad for wall reader

Combinable with online reader for PIN input.

Technical Data

Dimensions (L x W x H)	83 x 83 x 37 mm
Weight	0,24 kg

Keyboard support in preparation.

Wireless door systems

- DLC digital locking cylinders online/offline
- DLF fittings online/offline

Wireless access control / arming/disarming

Doors to which wiring is not possible or desired can alternatively be equipped with electronic door cylinders or fittings.

Both products are available as **offline** and **online** solution and can be used in addition to the wired installation type.

Both variants can be used with access control systems (ACS-8 with IQ MultiAccess) as well as with intruder alarm control panels of the 561-MB24/48/100 series with IQ SystemControl.

With the **offline** variant a mobile medium (Palm® or notebook/laptop) is used for the manual transfer of access authorizations of IQ MultiAccess or IQ SystemControl to the cylinder / fitting and access bookings from the door to IQ MultiAccess or IQ systemControl.

The **online** variant communicates via radio using a Trafficpoint RS-485 which is connected to an ACS-8, an IK3 evaluation unit or an AC door module BUS-2.

Initial programming requires a laptp or Palm®.

A maximum of 8 Trafficpoints RS-485 can be connected to one ACS-8, IK3-EU, AC door module BUS-2. Each Trafficpoint RS-485 can handle a maximum of 8 cylinders / fittings, however the maximum number of doors of ACS-8, IK3-EU, AC door module BUS-2 must not be exceeded.

The maximum number of data carriers and switching devices is determined by the panel the cylinders/fittings are connected to.

Online cylinders/fittings connected to an IK3-EU can additionally be used for arming / disarming with separate transponders.

Communication to cylinders and fittings

Data transfer from / to door cylinders / fittings from now on also possible via laptop / notebook.

The new laptop / notebook data transfer solution offers a comfortable variant to the present data transfer from / to the door cylinders / fittings via Palm® / PDA.

Here the communication software XS-Manager*, IQ Cylinder* or WINFEM* are installed on a laptop / notebook communicating via an infrared interface with the door cylinders / fittings. Appropriate adaptors and fasteners see accessories.

* Included in the respective software package

From now on this type of data transfer is available for the offline variant alternatively to the transfer via a PALM (once required by the system user). Generally a migration from the Palm®/PDA to the laptop/notebook variant is possible.

Important for the installer:

The **online** cylinders / fittings must **once** be initialized during the installation by either of the two vatriants (laptop or Palm®). After this only the system user is able to administrate the respective doors online without any further accessories.

022963 Trafficpoint RS-485 for DLC and DLF online

For communication with online DLC door cylinders and online DLF fittings. Connection via RS-485 interface to ACS-8, IK3-EU or AC door module BUS-2.

One trafficpoint can support maximum 8 cylinders/fittings.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 36 V DC
Current consumption	40 mA with 12 V DC, 20 mA with 24 V DC
Transmit frequency	ISM-Band (SRD), 865 MHz to 870 MHz, programmable in 5 steps
Range	10 m
Permitted minimum distances	- between trafficpoints min. 2 m; - DLC/DLF to trafficpoints min. 1 m
Interface	RS-485 modue lbus
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-5 °C to +40 °C
Dimensions with closed housing (H x Ø)	110 x 57 mm
Colour	greywhite, similar to RAL 9002

Ceiling mounting (landscape) recommended.

Application example

DLC reader modules proX / LEGIC / mifare

Performance Features

- Electronic modular cylinder
- Automatic activation upon approach or by turning the outer door knob
- Data preservation through non-volatile memory
- Memory capacity: 99 badges via Mastercard (022903) or 2,000 badges via PDA/IQ MultiAccess, with online connection via radio the maximum values of the connected panels (ACS-8 / MB24/48/100) are valid.
- Dynamic event memory
- Proximity reader, for badges according to ISO 7816 ID-1 the typical reading distance is about 2 cm
- Reading methods:
  - Offline cylinders: proX, IK2/3, LEGIC prime, mifare classic
  - Online -cylinders: proX, IK2, IK3 (UID)
- Interfaces:
  - Offline: IrDa, range max. 30 cm
  - Online: additionally radio (ISM-Band), range max. 10 m
- Tamper monitoring
- Conform to fire protection requirements according to EI290 in conjunction with a suitable fire barrier (e. g. T90 door). Proof of suitability in connection with the corresponding fire and smoke protection door required.
- Quick mounting without drilling
- No wiring required
- For all DIN locks with Euro profiled cylinders
- Low storage capital lockup through modular design
- Simple programming by MasterCard, PDA or mobile PC
- Transfer of all manipulation and tampering attempts to higher-ranking software
- Emergency opening via special installation tool
- Quick and safe battery change
- Access via proximity card or fob, including:
  - proX1 (IK2), proX2 (IK3 without rolling code), Transponders (026368.00/026378)
  - LEGIC transponders (026367)
  - mifare transponders (026364)
- Arming/disarming of IACP via separate transponders for online version

The DLC cylinder from this product line is an autonomous access control for proximity cards and transponders reduced to one door cylinder.

This wireless access control component enables uncomplicated mounting and retrofitting to existing doors by simply replacing the door cylinder.

The cylinder body of the DLC cylinder is designed in modular form, allowing it to be used for all door thicknesses from 50 to 110 mm plus strike plates.

Various access requirements can be implemented by means of the DLC cylinder:

- Double door knob cylinder with electronic access control on one side
- Double door knob cylinder with access control on both sides (including different ones)
- Electronic half cylinder

The DLC cylinder is a battery-operated locking unit for universal use, consisting of a reader module, an extension adapter and a mechanical inner knob.

The reading electronics and the mechatronics together with the batteries are inside the reader module. Since the DLC cylinder reader module is mounted by means of a Euro profile cylinder adapter, conventional locks for DIN Euro profile can be used, not requiring any complicated mounting. This makes the DLC cylinder a low-cost solution for new buildings and also for existing premises. A wide range of transponder carriers can be used as identity cards, such as ISO cards, key rings, clocks, etc.

The entry and modification of access data as well as the read-out of bookings and logs for evaluation with offline cylinders take place via an IrDA interface accessed via a PDA or a laptop/notebook. The XS Manager communication software installed there ensures data exchange between the DLC cylinders and the IQ MultiAccess access control software provided with the “Locking cylinder integration” option or the intruder alarm control panel data administration software IQ SystemControl.

The reader modules are designed for indoor use. Outdoor usage is not recommended.

Online cylinders are connected via radio and behave like hard wired doors.

Technical Data

Operating temperature range	-20 °C to +65 °C
Storage temperature	-40 °C to +85 °C
Battery type	2 x Typ CR-2, 3 V Lithium
Battery durability	see graphics, Emergency power supply possible via external voltage lead
Class of protection	As per EN 60950 - device with internal power supply
Type of protection EN 60529	IP66
Humidity class	0...95%rH, no condensing
Display	1 x Duo-LED (red/green) with illuminated ring
Backset	Suitable for DIN mortise locks with bolt length >35 mm DIN left and DIN right; door thickness 50 - 110 mm
Dimensions (Ø x L)	Electronic reading module: Ø 40 mm, 41 mm long; Mechanical knob, small: Ø 29,5 mm, 20 mm long; Mechanical knob, large: Ø 34 mm, 20 mm long
Housing colour	Cylinder and knob housing: stainless steel, Reader cover: anthracite
Weight	Reader head: 174 g (ready for operation)

System requirements:

- ACS-8 firmware V8 or higher
- 561-MB24/48/100 firmware V12 or higher
- IK3 EU firmware V11 or higher
- AC door moduel BUS-2 firmware V11 or higher

Programming and data transfer

With offline cylinders via PALM® with PC software:

- IQ MultiAccess V7 or higher or
- IQ SystemControl V2 or higher

With offline cylinders via PC with PC software:

- IQ MultiAccess V10 or higher or
- IQ SystemControl V5 or higher

With online cylinders:

- IQ MultiAccess V10 or higher or
- IQ SystemControl V5 or higher or
- WINFEM Advanced V12 or higher

To prevent any mechanical attack on exposed surfaces, the cylinder adapter should end flush with door fitting, if possible.

It should project no more than two millimeters.

When using two reading heads at the same time, the cylinder adapter must be at least 65 mm long (e.g. 35 x 30 mm).

The required cylinder adapter dimension is determined by measuring either the profile cylinder installed in the door or the door and fitting thicknesses. This gives lengths L1 and L2, which are compared with the cylinder adapter dimensions.

Dimensions in mm

Battery
Lifecycle at room temperature (+20° C)
Typical number of locking cycles: HITAG / EM: 20.000
Typical lifecycle if not operated: HITAG / EM: 2 Jahre

The mentioned cycle numbers are valid for reading the UID of the appropriate transponders.
Different configurations of the reading properties can reduce the number of cycles by up to 40%.
The battery-lifecycle is based on the use of the recommended batteries:
DURACELL Typ CR 2 Lithium (item-no. 022910).

A correct reset of the battery lifecycle monitoring will only be done if the replacement of the batteries are done according to the original-DORMA-manual (included in scope of delivery).

022960.10 **DLC proX online reader module, outer knob for digital locking cylinders**

With illuminated ring. Online connection via Trafficpoint RS-485 for DLC and DLF online 022963.

Recommended key fob: item no. 022190.

022900.10 **DLC proX offline reader module, outer knob for digital locking cylinders**

With illuminated ring.

022901.10 **DLC LEGIC offline reader module, outer knob for digital locking cylinders**

022902.10 **DLC mifare offline reader module, outer knob for digital locking cylinders**

With illuminated ring.

022903.10 **DLC proX MasterCard reader module, outer knob for digital locking cylinders**

With illuminated ring. Programming via Master Card Set, max. 99 persons

You can produce the Master Card Set yourself by using 3 proX/IK2 proximity cards, Example: Art. No. 026370.00.

Accessories for online and offline cylinder

022910 **DLC battery pack for digital locking cylinders**

Battery pack consisting of two single batteries type CR 2 lithium, 3 V. Batteries for fitting a DLC reader module.

022914 **Small DLC inner knob for digital locking cylinders**

Mechanical knob to be combined with DLC cylinder components.
Design: stainless-steel-like with recessed grip

Technical Data

Diameter	29.5 mm

Dimensional drawing

022915 Large DLC inner knob for digital locking cylinders

Mechanical knob to be combined with DLC cylinder components.
Design: stainless-steel-like with recessed grip

Technical Data

Diameter	34.0 mm

Dimensional drawing

022916 DLC plug for digital locking cylinders

Plug for closing the core hole of a cylinder adapter used on one side only.
(Not for use with half cylinder adapter)

022917 DLC protective rosette for digital locking cylinders

To increase the mechanical protection of the DLC cylinder from vandalism. By using the protective rosette with the DLC cylinders, the performance requirements of locking cylinders for locks in accordance with DIN EN 1303 are met.

When measuring the dimensions, an additional 8 mm must be included for the outside and 9 mm for the inside.

Dimensions in mm

022909 **IrDA-USB adaptor**

For data transfer from notebook USB from/to infrared interface of the cylinders/fittings.

022908 **DLC Servicetool**

For attachment and adjustment of the IrDA-USB adaptor (item no. 022909) at the door and for attachment of the DLC emergency power supply tool for digital locking cylinders (item no. 022912).

022911 **DLC battery changing tool for digital locking cylinders**

Battery changing tool for convenient battery change of DLC reader modules.

Attention: The battery change is only possible if in possession of the battery change right allocated to the reader module.

Recommended for maintenance purposes.

022912 **DLC emergency power tool for digital locking cylinders**

Energising unit for DLC reading modules.

The energising unit allows the reading module to be supplied with power from outside, even after the current has fallen below the third warning threshold. It is supplied with power via the contact pins on the front of the reading module and the spring contacts of the energising unit from a 9 V block battery 6LR61 (not included in the delivery).

Technical Data

Dimensions	35 x 30 x 18 mm

Recommended for maintenance purposes.

DLC cylinder adapters

Cylinder adapter to be combined with DLC cylinder components. Suitable for direction-independent installation in PZ locks according to DIN 18251.

Profiled cylinder in modular design from 25/25 mm to 50/60 mm, other dimensions upon request.

Separately from the DLC cylinder adapter, the following components must be ordered:

- Electronic reading module for access side (022900-903)
- DLC battery pack (022910)
- Mechanical DLC door knob (022914-915)
- Plug (022916)
- Electronic reading module for access side (022900-903)

Cylinder adapter lengths must be selected in accordance with the door details, taking into account the selected fittings. When using the DLC protective rosette, an additional 8 mm must be included for the dimensions of the outside and 9 mm for the inside.

Dimensional drawings

*Special length on request, see item no. 022953.

022920 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	25 x 25 mm

022921 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	25 x 30 mm

022922 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	25 x 35 mm

022923 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	25 x 40 mm

022924 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	25 x 45 mm

022925 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	25 x 50 mm

022926 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	25 x 55 mm

022928 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	30 x 30 mm

022929 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	30 x 35 mm

022930 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	30 x 40 mm

022931 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	30 x 45 mm

022932 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	30 x 50 mm

022933 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	30 x 55 mm

022934 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	30 x 60 mm

022935 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	35 x 35 mm

022936 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	35 x 40 mm

022937 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	35 x 45 mm

022938 **DLC adapter for digital locking cylinders**

Technical Data

Dimensions	35 x 50 mm

022939 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	35 x 55 mm

022940 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	35 x 60 mm

022941 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 40 mm

022942 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 45 mm

022943 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 50 mm

022944 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 55 mm

022945 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 60 mm

022946 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	45 x 45 mm

022947 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	45 x 50 mm

022948 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	45 x 55 mm

022949 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	45 x 60 mm

022950 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	50 x 50 mm

022951 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	50 x 55 mm

022952 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	50 x 60 mm

022953 **DLC adapter, special length for digital locking cylinders**

Technical Data	
Dimensions	special length

DLC half cylinder adapter

Half cylinder adapter to be combined with DLC cylinder components.

Suitable for installation in key switches.

Profiled cylinders from 25/10 mm to 50/60 mm.

Separately from the DLC cylinder adapter, the following components must be ordered:

- Electronic reading module (022900-903)
- DLC battery pack (022910)

Half cylinder adapter lengths must be selected in accordance with the details, taking into account the installation.

When using the DLC protective rosette, an additional 8 mm must be included for the dimensions of the outside.

022954 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	25 x 10 mm

022955 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	30 x 10 mm

022956 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	35 x 10 mm

022957 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 10 mm

022958 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	45 x 10 mm

022959 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	50 x 10 mm

DLF fittings proX / LEGIC / mifare

Performance Features

- Electronic modular fitting for indoor user
- Automatic activation upon approach or by turning the outer door knob
- Data preservation through non-volatile memory
- Memory capacity of the offline variant 2,000 master records, with online connection via radiothe maximum values of the connected panels (ACS-8 / MB24/48/100) are valid.
- Dynamic event memory
- Proximity reader, for badges according to ISO 7816 ID-1 the typical reading distance is about 2 cm
- Reading methods:
  - Offline cylinders: proX, IK2, IK3, LEGIC prime, mifare classic
  - Online -cylinders: proX, IK2, IK3 (UID), LEGIC prime, mifare classic
- Interfaces:
  - Offline: IrDa, range max. 30 cm
  - Online: additionally radio (ISM-Band), range max. 10 m
- Tamper monitoring
- Arming / disarming via separate transponders with online variant connected th IACP (IK3-EU)
- Fire protection:
  - Optional fire protection kit on request
  - Quick mounting
  - No wiring

System requirements

- ACS-8 firmware V8 or higher
- 561-MB24/48/100 firmware V12 or higher
- IK3 EU firmware V11 or higher
- AC door moduel BUS-2 firmware V11 or higher

Programming and data transfer

With offline cylinders via PALM® with PC software:

- IQ MultiAccess V7 or higher or
- IQ SystemControl V2 or higher

With offline cylinders via PC with PC software:

- IQ MultiAccess V10 or higher or
- IQ SystemControl V5 or higher

With online cylinders:

- IQ MultiAccess V10 or higher or
- IQ SystemControl V5 or higher or
- WINFEM Advanced V12 or higher

The DLF fitting from the DLC/DLF product line is an automatic access control integrated into a door fitting for proximity cards.

The DLF access control has the advantage that it can be retrofitted to already existing doors without any wiring work. The DLF fitting is installed by simply replacing the door fitting.

Access control runs completely autonomously. With the offline variant all required data like access authorization, time plans, calendars and special days are stored in the device itself. When an employee logs in, his/her authorisations are checked by the DLF fitting, and the door handle is unlocked if the result is positive. In the no-load status, or when the booking result is negative, the door handle will remain locked and the door remain closed.

The entry and modification of access data as well as the read-out of bookings and logs for evaluation with offline fittings take place via an IrDA interface accessed via a PDA or a laptop / notebook. The XS Manager communication software installed there ensures data exchange between the DLF fittings and the IQ MultiAccess access control software provided with the “Locking cylinder integration” option or the intruder alarm control panel data administration software IQ SystemControl.

Online fittings are connected via radio and behave like hard wired doors. They receive their authorizations from the superior panel (ACS-8, IK3 EU or AC door rmodule BUS-2).

The mechanical functions correspond th the offline version.

In standby mode, the DLF fitting works largely de-energised. Activation takes place automatically upon approach. The minimum power supply is provided by replaceable commercially available batteries.

Technical Data

Operating temperature range	+5 °C to +50 °C (internal)
Storage temperature	-20 °C to +70 °C
Humidity range	0 to 80%, non-condensing
Battery type	4 x 1,5 V AA-Zellen Alkaline
Battery durability	ca. 2 years with 20 operations per day
Class of protection	According to EN 60950 - device with internal power supply
Type of protection	IP 20
Display	1 x Duo-LED (red/green), 1 x signalling device
Bolt length	For DIN mortise locks with bolt length >35 mm DIN left or DIN right; door thickness 32 - 105 mm
Dimensions (W x H x D)	66 x 242 x 79 mm
Colour	
Wiring	similar to stainless steel
Reader housing	anthracite
Weight	ca. 1,250 g

With each DLF Offline fitting - item no. 022970 - 022981 - there is included one DLF cylinder single lock 022993 with suitable single lock keys.

Accessories:

Separately from the DLF fitting for the access side, the following components must be ordered:

022984	DLF escutcheon, 72 mm
022985	DLF escutcheon without holes
022986 - 022991	DLF mounting kit
022994	DLF monokey slot cylinder
022996	DLF key for monokey slot cylinder
022908	DLC Servicetool
022909	IrDA USB Adaptor
022963	Trafficpoint RS-485 for DLC and DLF online

022964 **DLF proX online fitting, handle left, 72 mm, with profile cylinder hole**

Online connection via Trafficpoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022965 **DLF proX online fitting, handle right, 72 mm, with profile cylinder hole**

Online connection via Trafficpoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022966 **DLF LEGIC online fitting, handle left, 72 mm, with profile cylinder hole**

Online connection via Trafficpoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022967 **DLF LEGIC online fitting, handle right, 72 mm, with profile cylinder hole**

Online connection via Trafficpoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022968 **DLF mifare online fitting, handle left, 72 mm, with profile cylinder hole**

Online connection via Trafficoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022969.99 **DLF mifare online fitting, handle right, 72 mm, with profile cylinder hole**

Online connection via Trafficpoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022970 **DLF proX offline fitting, door handle left, 72 mm, with profile cylinder hole**

022971 **DLF proX offline fitting, door handle right, 72 mm, with profile cylinder hole**

022973 **DLF proX offline fitting, without perforation, door handle right**

022974 **DLF LEGIC offline fitting, door handle left, 72 mm, with profile cylinder hole**

022975 **DLF LEGIC offline fitting, door handle right, 72 mm, with profile cylinder hole**

022976 **DLF LEGIC offline fitting, without perforation, door handle left**

022977 **DLF LEGIC offline fitting, without perforation, door handle right**

022978 **DLF mifare offline fitting, door handle left, 72 mm, with profile cylinder hole**

022979 **DLF mifare offline fitting, door handle right, 72 mm, with profile cylinder hole**

022980 **DLF mifare offline fitting, without perforation, door handle left**

022981 **DLF mifare offline fitting, without perforation, door handle right**

Accessories

022982 **DLF hole gauge**

022983 **DLF battery pack**

Battery package comprising 4 AA batteries, 1,5 V, alkaline.

DLF internal escutcheon

Interior escutcheon with perforated handle section mounted in nylon bush for 8 mm pin. Fits DLF offline fitting.

Technical Data

Dimensions	50 x 224 x 64 mm

022984 **DLF internal escutcheon, 72 mm, with profile cylinder hole**

Technical Data

Version	Distance 72 mm, similar to stainless steel

022985 **DLF internal escutcheon, without perforation**

Technical Data

Version	without boring, similar to stainless steel

DLF mounting kit

Mounting kit for DLF inner door fitting, consisting of mounting plate, 8 mm square pin with adapter follower, 8/9 mm square pin sleeve and 5 fixing screws for wooden doors and for screwing down the DLF internal escutcheon with the DLF external fitting, adjusted to the particular door leaf thickness.

022986 **DLF mounting kit, 32 - 45 mm door thickness**

Technical Data

Dimensions	32 - 45 mm

022987 **DLF mounting kit, 44 - 57 mm door thickness**

Technical Data

Dimensions	44 - 57 mm

022988 **DLF mounting kit, 56 - 69 mm door thickness**

Technical Data

Dimensions	56 - 69 mm

022989 **DLF mounting kit, 68 - 81 mm door thickness**

Technical Data

Dimensions	68 - 81 mm

022990 **DLF mounting kit, 80 - 93 mm door thickness**

Technical Data

Dimensions	80 - 93 mm

022991 **DLF mounting kit, 92 - 105 mm door thickness**

Technical Data

Dimensions	92 - 105 mm

Accessories

022993 DLF slot cylinder with key, single-locking

Slot cylinder for DLF inner door fitting.

Locking cylinder and key, single locking.

Technical Data

Version	single shutting

022994 DLF slot cylinder, monokey

Slot cylinder for DLF inner door fitting.

Technical Data

Version	similar shutting

022996 DLF key, monokey

2 keys to fit DLF slot cylinder for DLF inner door fitting.

Technical Data

Version	similar shutting

Notizen

Electrical locking elements (ASSA ABLOY)

- Door strikes
- Motorized security locks
- Electrical security locks

019090 Electric door strike 118RR

Model with recovery diode for access control systems.

Monitoring contact as potential-free changeover contact.

This will be actuated by the latch.

Performance Features

- Radius keeper, FaFix 3 mm adjustable
- Universal voltage
- Pluggable connecting cable available
- Compatible with all current mortise locks
- Compatible with all commercially available striking plates
- Symmetrical design. DIN left/right as well as horizontal applicable

Technical Data

Voltage	10-24 V AC/DC
Permanent voltage proof	11-13 V DC
Adjustable keeper (FF, FaFix®)	Yes
Monitoring contact (RR)	Yes
Bipolar protection diode	Yes
Load current	Yes
Resistance to intrusion	3750 N
Dimensions (H x W x D)	74 x 16 x 25,5 mm
FaFix® adjusting hinge	3 mm
Latch bolt engaging depth	5,5 mm
Operating temperature range	-15 °C to +40 °C
Installation position	vertical and horizontal
Internal works continuous function load cycles	250000
Fix adjustment	optional
Ppre-load release with AC operation	200 N
Switching capacity monitoring contact	24 V / 1 A
Fire protection	No
Rated resistance	43 Ohm
Rated current consumption 12 V DC	280 mA
Rated current consumption 24 V DC	560 mA
Rated current consumption 12 V AC	250 mA
Rated current consumption 24 V AC	500 mA
Max. latch preload AC	200 N
Max. keeper pre-load DC (stabilised)	50 N

Dimensions in mm

019091 **Electric door strike 118FRR for fire doors**

Model with monitoring contact as potential-free changeover contact.

This will be actuated by the latch. Also to be used as fail locked door strike.

Performance Features

- Adjustable latch (FF, FaFix®)
- Adjustable door strike (F, Fix)
- Monitoring contact (RR)
- Bi-directional diode
- Fail-locked

Technical Data

Voltage	10-24 V AC/DC
Permanent voltage proof	11-13 V DC
Adjustable keeper (FF, FaFix®)	Yes
Monitoring contact (RR)	Yes
Bipolar protection diode	Yes
Load current	Yes
Resistance to intrusion	9000 N
Dimensions (H x W x D)	74 x 16 x 25,5 mm
FaFix® adjusting hinge	3 mm
Latch bolt engaging depth	6 mm
Operating temperature range	-15 °C to +40 °C
Installation position	vertical and horizontal
Internal works continuous function load cycles	250000
Switching capacity monitoring contact	24 V / 1 A
Fire protection	Yes
Test certificate number	P-120003624
Rated resistance	43 Ohm
AC-connector adapter	250 mA (12V); 500 mA (24V)
DC-current consumption (stabilzed)	280 mA (12V); 560 mA (24V)
Max. preload AC	200 N (12V) >350 N (24V)
Max. keeper pre-load DC (stabilised)	50 N (12V) 200 N (24V)

Dimensions in mm

019092 Flat striking plate

Performance Features

- Use for DIN left and DIN right

Standard flat striking plate with latch bolt aperture and dead bolt cutout.

The various flat striking plates cover almost the complete range of metal and profile frames. Some time ago striking plates with shifted holes (vaiable “O”) have also been used for wooden frames. However, we recommend the use of the nicer looking solution including angeled striking plates or striking plates with latch guideway.

Technical Data

Dimensions (L x W)	250 x 25 mm
Thickness	3 mm
Dead bolt cutout	Yes
Latch bolt guide	Nein

1 x flat striking plate

Dimensions in mm

019095 Pre-load electronic assembly 760-12, 12 V DC / 24 V DC

Improves pre-load capability to at least 300N for DC operation. A short buzzing sound is audible in the electric strike for about 0.5 seconds. Continuous current-resistant, holding current is reduced. Compatible with standard effeff electric strikes.

Technical Data

Connection lead	2-wire
Connection terminal	2-pole

Angled striking plates

Standard angled striking plate with latch bolt aperture and dead bolt cutout.

Angled striking plates are designed primarily for wooden constructions, but can also be used for other applications. If electric strikes are retrofitted in angled striking plates, prior to mounting the lateral cover at the strike must be removed. For wooden doors, we recommend using strikes with adjustable keep (FaFix), as the special properties of wood can necessitate adjustment of the keep.

019093 Angled striking plate DIN left

Technical Data

DIN direction	Left
Dimensions (L x W x D)	250 x 25 x 32 mm
Thickness	2 mm
Dead bolt cutout	Yes
Latch bolt guide	No

019094 Angled striking plate DIN right

Technical Data

DIN direction	Right
Dimensions (L x W x D)	250 x 25 x 32 mm
Thickness	2 mm
Dead bolt cutout	Yes
Latch bolt guide	No

MEDIATOR

Performance Features

- Self-locking: Dead bolt and latch are blocked; Advantage: higher security
- Mechanical process control between cross and control latch
- Integrated panic function on the inside handle
- Changeover function for unlocking with a key from the outside
- Low rear backset for tubular frame design: 15 mm

VdS **Approval** **G109032 (EMT), class C**
M109314 (EMT), class A
Z109001 (ZK), class C

MEDIATOR is the perfect combination of a self-locking escape door lock with an electric door strike. All electric cable feeds are not connected to the lock but to the door strike. By means of this cabling work with high effort are no longer necessary at the door.

MEDIATOR

- provides a high protection against burglary as the door is permanently locked. Approval as mechanic blocking element according to VdS class A. If required, the door can be held open via a key switch.
- provides a safe escame route. Despite being permanently locked, the building can always be exited through the entrance door
- provides great convenience. Locked building entrance doors can be easily opened from inside apartments. When the door closes, it is automatically locked. The door can also be permanently unlocked.
- Permanent release possible (e. g. clock controlled).
- suitable for both tubular-frame and full-leaf doors.

Mounting

Power source

Four wires are provided: two for power supply and two for electrical actuation.

Warning: If a power supply unit from a different manufacturer is used, ensure it is a model 12 V controlled D.C. voltage and a current output of at least 1 A.

Technical Data

Actuation voltage (release)	5 - 48 V AC oder DC. With reconfiguration the existeng door strike cable can be used.
Rated operating voltage	12 V DC controlled

Dimensions in mm

Approvals

Approval for fire and smoke doors

The basic precondition for the use with fire or smoke doors iis a common test certificate of a construction supervision authority. The test certificate for the Mediator has the number 120003555.

The door manufacturer needs this common test certificate to test the door system. Only in combination with this the door manufacturer is able to test (door system test) and produce a fire or smoke door.

Please observe also country specific regulations outside of Germany (if existing).

For use with fire and smoke doors please note:

- The Mediator solution is only allowed to be built in by the door manufacturer during the production in combination with a corresponding door system inspection. A subsequent assembly at an existing fire or smoke door is not, or only with agreement of the door manufacturer, permitted. The Mediator doorstrike must have the “Ü”-identification mark (models as of production date 09.2008) and the fire protection module 519ZBFS (item no. 022711) must be used in addition. For a fire or smoke recognition an on-site fire detetion sytem or a smoke detector with a relay output is to be used (see connection diagram of item no. 022711).
- For this application a permanent release of the Mediator system is not permitted.

Mediator has three different VdS approvals:

- Approval as locking monitoring device (bolt switching contact) VdS class C, G 109 032
- Approval as mechanic locking device VdS class A, M 109 314
- Approval as elektro mechanic actuating element for access control systems VdS class C, Z 109 001

Approval according to DIN EN 179 and DIN EN 1125

For escape door planning it is effective:

Before tender procedure there must be the decision if the door is planned to be an ecsape route or a panic door. The legal basis therfor is the valid building law with its corresponding special building regulations (valid in Germany, please observe local country specific regulations, if existing).

The decision for emergency or panic doors must be based upon the EN-norms 179 and 1125 with common validity within Europe.

The two norms distinguish between emergency exit (DIN EN 179) and panic exit (DIN EN 1125) and thus regulate the appropriate equipment of the door.

DIN EN 179 (emergency exit locking device) Certificate of EC Conformity CPD-001.

DIN EN 1125 (panic locking device) Certificate of EC Conformity CPD-017.

Conection diagram

022700 MEDIATOR Lock, Tubular Frame Version

MEDIATOR lock, tubular frame version, 35 mm backset.

Technical Data

Backset	35 mm
Distance	92 mm
Type of cylinder	Europrofile cylinder
Dead bolt throw	20 mm
Follower	9 mm with Compensation on 8 mm
Face plate width	24 mm, squared

1 x lock
1 x compensation

Dimensions drawing MEDIATOR tubular frame lock

Spacer plate

Accessory

022706 Sliding piece for MEDIATOR

To adjust profile contours (slugs, slots, etc) insert the plastic sliding piece to guide the primary slider.

Technical Data

Dimensions (L x W x H)	100 x 24 x 3 mm

Application example / dimensions drawing

Spacer plates

MEDIATOR requires a gap of 2 to 5.5 mm between the striking plate and face plate for secure functioning. A larger gap can be reduced by using spacer plates on both the strike side (striking plate) and the lock side (face plate).

022707 Spacer plate for tubular frame lock

Technical Data

Dimensions (H x B)	300 x 24 mm
Thickness	3 mm

022708 Spacer plate for tubular frame lock

Technical Data

Dimensions (H x B)	300 x 24 mm
Thickness	5 mm

022701 MEDIATOR lock for wooden and steel doors, lock facing 20 mm

MEDIATOR lock for wooden and steel doors, backset 65 mm, lock facing 20 mm.

Technical Data

Backset	65 mm
Distance	72 mm
Type of cylinder	Europrofile cylinder
Dead bolt throw	20 mm
Follower	9 mm with Compensation on 8 mm
Face plate width	20 mm, round

Accessories:

022706 Sliding piece

Maßzeichnung MEDIATOR Schloss Vollblatt, Stulp 20 mm

022702 MEDIATOR lock, wooden and steel doors, lock facing 24 mm

MEDIATOR lock for wooden and steel doors, backset 65 mm, lock facing 24 mm.

Technical Data

Backset	65 mm
Distance	72 mm
Dead bolt throw	20 mm
Follower	9 mm with Compensation on 8 mm
Type of cylinder	Europrofile cylinder
Face plate width	24 mm

1 x lock
1 x compensation

Accessories:

022709	Spacer plate
022706	Sliding piece

Accessory

022709 Spacer plate for wooden and steel doors

MEDIATOR requires a gap of 2 to 5.5 mm between the striking plate and face plate for secure functioning. A larger gap can be reduced by using spacer plates on both the strike side (striking plate) and the lock side (face plate).

Technical Data

Dimensions (H x B)	235 x 24 mm

022706 Sliding piece for MEDIATOR

To adjust profile contours (slugs, slots, etc) insert the plastic sliding piece to guide the primary slider.

Technical Data

Dimensions (L x W x H)	100 x 24 x 3 mm

Application example / dimensions drawing

022711 **Fire protection module**

When MEDIATOR locks are used on fire doors, the fire protection module 519ZBFS (item no. 022711) is required.

In the event of a fire or power failure, the module ensures that the status of the motorised lock changes to locked from whatever status it was in and that the door can fulfil its fire safety function. It goes without saying that the panic function via the door handle or push bar will remain functional.

For smoke recognition a smoke alarm system or a smoke detector with a relay output must be connected.

Technical Data

Dimensions (L x W x D)	98 x 88 x 43 (49) mm

Anschlussplan Feuerschutz-Modul

022712 **Power supply unit 1003-UP, f. m.**

These stabilised power supply units are used for access control, escape route systems and electric strike systems where a low-noise locking component is required.

Technical Data

Type of installation	Flush mounted installation box
Dimensions (H x W x L)	50,8 x 32 x 54,5 mm
Overload protection	electronic
Operating temperature range	-20 °C to +40 °C
Type of protection	IP 20
Class of protection	II/protective insultated
Housing	Plastic
Housing colour	black
Rated operating voltage	230 V AC +/- 15%
Rated power	12 W
Rated voltage	12 V DC (regulated)
Rated current	max. 1 A

Doorstrikes for MEDIATOR

Performance Features

- The door is always locked – day and night.
- Despite being permanently locked, the building can always be exited through the entrance door
- If visitors come late in the evening or early in the morning, the locked main door can be opened comfortably from the apartment. It locks automatically if it closes again.

MEDIATOR linear electric door strike

The MEDIATOR linear electric door strike has been especially developed for this lock solution with fix adustment and various striking plates. Various spacer plates suitable for the used striking plates are available for adjustment of the rebate space. An available counterpat fixes unevennesses of the profile.

The MEDIATOR linear electric strike is motor-driven and fulfils all requirements for use in busy apartment buildings.

022703 MEDIATOR electric strike with flat strike plate

MEDIATOR electric strike with strike plate.

Can be used for DIN left and DIN right.

Technical Data

Voltage	12 V DC
Dimensions (H x B)	356 x 24 mm
Thickness strike plate	3 mm
Dead bolt throw	20 mm
Unlocking time	3 sec
Resistance to intrusion	6000 N
Operating temperature range	-20 °C to +60 °C
Gap – face plate-strike plate	Min. 2 mm to max.4 mm
Fix adjustment	Yes
Fix adjustment range	3 mm
Max. latch preload AC	80 N
Permanent unlocking	Yes
Rated operating voltage	12 V DC (regulated d.c. voltage)
Actuation voltage (release)	5 V to 48 V AC/DC
Rated current consumption	500 mA
Monitoring contact door locked	Max. 30 V DC, 500 mA
Monitoring contact door unlocked	Max. 30 V DC, 500 mA

Dimensions in mm

022710 MEDIATOR Spacer plate

Stainless steel spacer plate suitable for MEDIATOR doorstrike (Item no. 022703) for adjusting the rebate clearance.

Technical Data

Dimensions (H x B)	356 x 24 mm
Thickness	3 mm

022704 MEDIATOR electric strike with angled strike plate DIN left

MEDIATOR electric strike with angled strike plate DIN left for single locking.

Technical Data

Voltage	12 V DC
DIN direction	left
Dimensions (H x W x D)	355,75 x 30 x 12 mm
Thickness strike plate	3 mm
Dead bolt throw	20 mm
Unlocking time	3 sec
Resistance to intrusion	6000 N
Operating temperature range	-20 °C to +60 °C
Gap – face plate-strike plate	Min. 2 mm to max. 5,5 mm
Fix adjustment	Yes
Fix adjustment range	3 mm
Max. latch preload AC	80 N
Permanent unlocking	Yes
Rated operating voltage	12 V DC
Actuation current	5 V to 48 V AC/DC
Rated current consumption	500 mA
Monitoring contact door locked	Max. 30 V DC, 500 mA
Monitoring contact door unlocked	Max. 30 V DC, 500 mA

022705 MEDIATOR electric strike with angled strike plate DIN right

MEDIATOR electric strike with angled strike plate DIN right for single locking.

Technical Data

Voltage	12 V DC
DIN direction	right
Dimensions (H x W x D)	355,75 x 30 x 12 mm
Thickness strike plate	3 mm
Dead bolt throw	20 mm
Unlocking time	3 sec
Resistance to intrusion	6000 N
Operating temperature range	-20 °C to +60 °C
Gap – face plate-strike plate	Min. 2 mm to max. 5,5 mm
Fix adjustment	Yes
Fix adjustment range	3 mm
Max. latch preload AC	80 N
Permanent unlocking	Yes
Rated operating voltage	12 V DC
Actuation voltage (release)	12 V DC (regulated d.c. voltage)
Rated current consumption	500 mA
Monitoring contact door locked	Max. 30 V DC, 500 mA
Monitoring contact door unlocked	Max. 30 V DC, 500 mA

Fittings for MEDIATOR

022713 Mediator door fittings for full leaf version

Solid steel protection door fitting for MEDIATOR is suitable for the 55 to 100 mm full leaf version and is equipped with cylinder protection.

Suitable for item no. 022701 and item no. 022702.

Applicable for DIN left and DIN right.

Technical Data

Version	DO 20.3.01 for DIN EN 179
Backset	55-100 mm
Material	Stainless steel
Distance	72 mm
Type of cylinder	Europrofile cylinder
Cylinder protection	Yes

Accessories:

Half spindles with screw roller and screws.

022714 Mediator door fittings for tubular frame version

Solid steel protection door fitting for MEDIATOR is suitable for the 30 to 45 mm for tubular frame version and is equipped with cylinder protection.

Suitable for item no. 022700.

Applicable for DIN left and DIN right.

Technical Data

Version	DO 20.3.02 for DIN EN 179
Backset	30-45 mm
Material	Stainless steel
Distance	92 mm
Type of cylinder	Europrofile cylinder
Cylinder protection	Yes

Accessories:

Half spindles with screw roller and screws.

Accessory

022715 Half spindles with screw roller

Applicable for item no. 022714.

Technical Data

Pin length	95 mm
Door leaf thickness	Tubular frame 022714: 43-53 mm

022716 Half spindles with screw roller

Applicable for item no. 022713 and item no. 022714.

Technical Data

Pin length	100 mm
Door leaf thickness	Tubular frame 022714: 48-58 mm; massive leaf 022713: 38-48 mm

022717 Half spindles with screw roller

Applicable for item no. 022713 and item no. 022714.

Technical Data

Pin length	110 mm
Door leaf thickness	Tubular frame 022714: 58-68 mm; massive leaf 022713: 48-58 mm

022718 Half spindles with screw roller

Applicable for item no. 022713 and item no. 022714.

Technical Data

Pin length	120 mm
Door leaf thickness	Tubular frame 022714: 68-78 mm; massive leaf 022713: 58-68 mm

022719 Half spindles with screw roller

Applicable for item no. 022713.

Technical Data

Pin length	130 mm
Door leaf thickness	Massive leaf 022713: 68-78 mm

Screws for MEDIATOR fittings

Screw sets for fittings

		applicable for fitting				
Item no.	Screw lenght in mm	tubular frame version Item no. 022714	door thickness in mm	massive leaf version Item no. 022713	door thickness in mm	Price €
019201	45		35-40	X	35-40	
019202	50		40-45	X	40-45	
019203	55		45-50	X	45-50	
019204	60	X	50-55	X	50-55	
019205	65	X	55-60	X	55-60	
019206	70		60-65	X	60-65	
019207	75	X	65-70	X	65-70	
019208	80		70-75	X	70-75	
019209	85	X	75-80	X	75-80	

3 x M6 / 2 x M8 screws each, corresponding allen wrenches

Checklist for MEDIATOR

Necessary information for reworking.

MEDIATOR is ingenious and therefore also very straightforward. Easy to use on a daily basis and just as easy to install. In order for the lock solution to work perfectly, a few things must be taken into consideration before ordering. This includes: the existing entrance door and its lock and strike, and thus also selection of the required MEDIATOR components. The following checklist for door features ensures security for your door.

1 DIN direction ☐ DIN left ☐ DIN right

2 Backset

Tubular frame model	☐ 30 mm	☐ 35 mm	☐ 40 mm	☐ 45 mm
Full leaf model	☐ 55 mm	☐ 60 mm	☐ 65 mm	☐ _____ mm

3 Face plate

Width _____ mm

Thickness _____ mm

Changing of the lock position box possible ☐ Yes ☐ No

4 Rebate clearance

Gap door frame/door leaf _____ mm

Please also turn to p. 14

5 Face plate to strike plate

Gap between face plate & strike plate _____ mm

6 Distance

Euro-profile cylinder

Tubular frame model ☐ 92 mm

wooden/steel model ☐ 72 mm

7 Follower ☐ 8 mm ☐ 9 mm ☐ 10 mm

8 Striking plate

Width _____ mm

Thickness _____ mm

Finishing work required ☐ Yes ☐ No

9 Angled striking plate ☐ Yes ☐ No

10 Fitting

Compatible with lock type series 609 ☐ Yes ☐ No

11 Electric door strike

Existing ☐ Yes ☐ No

Model _____

Min. four connecting wires ☐ Yes ☐ No

Installation of additional cables possible ☐ Yes ☐ No

Wiring to sub-distribution ☐ Yes ☐ No

Wiring to junction box ☐ Yes ☐ No

Space for power supply unit in junction box ☐ Yes ☐ No

Other power supply unit fitting possible ☐ Yes ☐ No

Please note:

- For different backset/distance, additional work must be made to the door leaf for finishing.
- A power supply must be planned.
- Four connection wires are required:
  - Two wires to power supply
  - Two wires to electrical actuation
- Space must be provided in the door frame for the motor unit.
- Possibility to align FaFix striking plate/latch bolt.
- Required gap between face plate & striking plate after fitting: 2 – 5.5 mm

Motor safety lock type 509

The motor safety locks **automatically lock** the door after closing. Door locking cannot be forgotten, which provides the highest level of intrusion protection.

Motorised operation of latch and bolt, enabling the motor lock to be used in connection with motor-operated doors.

The **emergency egress function** guarantees a safe chance for escape, since the door can be opened from the inside at any time.

The control unit allows convenient remote controlling. The motor lock can easily be combined with access control systems and other door systems.

All motor safety locks are tested by the material testing institute (MPA) in Dortmund and approved for use in escape routes, fire doors and intrusion-resistant doors.

Available bolt lengths: 35 mm and 65 mm

022085.10 Motor lock DIN right-/left-hand bolt length 35 mm, type 509X

Motor lock for doors with bolt length 35 mm.

Approval:

EC Certificate of conformity 0432-CPD-0001 of the harmonised standard EN 179.
Classification: 376B1352AB/D.

EC Certificate of conformity 0432-CPD-0017 of the harmonised standard EN 1125.
Classification: 376B132 1/2 AB and 37601322BB.

Technical Data

Setting of locking	max. 45°
Settings possibillities	Panic side, DIN heading
Dimensions (W x H x D)	254 x 50 x 20.5 mm
Face plate (W x H x D)	300 x 24 x 3 mm
Dead bolt throw	20 mm
Follower	9 mm
Backset	35 mm
Distance	92 mm (Euro cylinder)

Performance Features

- Self-locking with cross latch bolt and lock
- Integrated anti-panic function via the internal strike
- Unlock of latch bolt and lock by electric motor
- Electric control via external motor lock control item no. 022080.10
- Alternating function for unlocking from outside via key
- Automatic relocking
- For universal use

022087.10 Motor lock DIN right-/left-hand bolt length 65 mm, type 509X

Motor lock for doors with bolt length 65 mm.

Approval:

EC Certificate of conformity 0432-CPD-0001 of the harmonised standard EN 179.
Classification: 376B1352AB/D.

EC Certificate of conformity 0432-CPD-0017 of the harmonised standard EN 1125.
Classification: 376B132 1/2 AB and 37601322BB.

Technical Data

Setting of locking	max. 45°
Settings possibillities	Panic side, DIN heading
Dimensions (W x H x D)	168.5 x 98 x 16.5 mm
Face plate (W x H x D)	235 x 24 x 3 mm
Dead bolt throw	20 mm
Follower	9 mm
Backset	65 mm
Distance	72 mm (Euro-Zylinder)

Performance Features

- Self-locking with cross latch bolt and lock
- Integrated anti-panic function via the internal strike
- Unlocking of latch bolt and lock by electric motor
- Electric control via external motor lock control item no. 022080.10
- Alternating function for unlocking from outside via key
- Automatic relocking
- For universal use

022080.10 Motor lock control for type 509X

(similar illustration)

Control device for motor lock Item no. 022085.10 or Item no. 022087.10.

Technical Data

Dimensions (W x H x D)	192 x 110 x 45 mm
Type of protection	IP 40
Connection voltage range	12-24V DC (+/-15%)
Connection voltage range	12-18V AC (+15%...-10%)
Current consumption	Idle = 80 mA (12V) / 40 mA (24V)
Current consumption	Normal = 450 mA (12V) / 220 mA (24V)
Current consumption	Start-up = 1300 mA (12V) / 600 mA (24V)
re-locking time	Adjustable 2 - 15 sec.
Temperature range	-20°C to +60°C

For use in fire barriers, a smoke protection switch approved by the building authority is additionally required.

Accessories:

022081.10 Connecting cable 10 m, 16-pin for motor lock 509X

Performance Features

- For controlling the motor safety lock of the 509X model series
- In the plastic housing for surface mounting
- Four potential-free contacts 20 V AC/DC 0.8A; ohmic load
- For monitoring:
  - deadbolt unlocked
  - deadbolt locked
  - control latch
  - profile cylinder contact
  - door strike operation
- Temporary and permanent unlocking options
- Automatic locking in case of power failure

022081.10 **Connecting cable 10 m, 16-pin for motor lock 509X**

- 16-pin
- for safety lock 509X
- with plug attached on one side
- length 10 m

022082.10 **Flanged striking plate for motor lock 509X**

Universal DIN left- and right-hand, 12 mm
- for safety locks 509X
- chromium-plated
- for universal use

Technical Data

Dimensions locking plate (W x H x D)	232 x 40 x 3 mm
Face plate flange	176 x 16 mm

Dimensions in mm

Electrical safety locks type 809

Performance Features

- Mechanical self-locking
- Mechanical follow up control between latch and control latch
- Burglary-resistant due to solid bolt with 20 mm throw
- Burglary resistance up to resistance class 2 achievable in suitable door systems
- Auxiliary latch for automatic bolt extension
- Can be opened from the inside of rooms at all times
- Free-wheeling external handle, electrically lockable
- Changeover function for normal key operation
- Monitoring function via four integrated microswitches
- Can be combined with escape door locking system
- Permanent door locking increases intrusion protection level
- Suitable for fire doors
- Approval fot fire doors D 09.11.
- Certificate P120090197
- Panic function:
  - Approvals as per EN 179 (tubular frame and massive leaf version)
  - Approvals as per EN 1125 (tubular frame version model 809E only)

The electric security lock model 809 is a self-locking panic lock with separate follower and controllable external handle. The outside handle does not engage (free-wheeling handle). It can be electrically actuated if required.

The self-locking mechanism is triggered when the door is closed by an additional control latch which when pressed in, automatically pre-locks the lock bolt. The function of the control latch is coupled with the position of the latch bolt. This means that the locking mechanism is only triggered when both latches are activated.

The panic function applies to one given direction of entry. When the respective handle is operated, both the latch and the pre-locked lock bolt are retracted. (Exception: The special version with controllable handle on both sides). The electric security lock 809 is available in all current versions both with control function in fail-locked version (currentless external handle without function) and with control function in fail-unlocked version (currentless, external handle with function).

A wide range of surveillance options is possible in addition to simple lock actuation if the lock is combined with electronic access control systems such as an encoded access system or with central instrumentation and control. Four **potential-free changeover contacts** have been provided for this purpose, and are capable of signalling every action within the lock.

As well as constituting a top quality alternative to conventional locks in residential and commercial buildings, the electrical safty lock type 809 is ideally suited for guarding high security areas.

Monitoring contacts for:

- Bolt contact (is activated with 90% dead bolt throw)
- Internal and external handle
- Profile cylinder contact (for use as key switch function)

Technical Data

Rated operating voltage	12 V DC
Current consumption	220 mA
Contact load realy	25 V DC / 1 A
Type of protection	IP 30 (with built-in cylinder)
Requirement on mech. strenght acc. to DIN 1825	class 4
Minimum loading of the trap	5 kN
Minimum loading of the sliding bolt	10 kN
Sliding bolt counterforce	min. 4 kN
Material	Stainless steel
Dead bolt throw	20 mm
Follower	9 mm
Backset	65 mm / 35 mm
Lenght conductor cable	6 m
Dimensions	see drawing

The E-safety locks use the operating current priciple and are available with a backset of 35 mm and 65 mm.

Locks with 65 mm bolt length

019050 **Electrical safety lock 809, version E, 65 mm bolt length**

Version E, right, inward opening.

Connection cable

019051 **Electrical safety lock 809, version F, 65 mm bolt length**

Version F, right, outward opening.

Conection calbe

019052 **Electrical safety lock 809, version C, 65 mm bolt length**

Version C, left, inward opening.

Connaction cable

019053 **Electrical safety lock 809, version D, 65 mm bolt length**

Version D, left, outward opening.

Connection cable

Locks with 35 mm bolt length

019054 **Electrical safety lock 809, version E, 35 mm bolt length**

Version E, right, inward opening.

Connection cable

019055 **Electrical safety lock 809, version F, 35 mm bolt length**

Version F, right, outward opening.

Connection cable

019056 **Electrical safety lock 809, version C, 35 mm bolt length**

Version C, left, inward opening.

Connection cable

019057 **Electrical safety lock 809, version D, 35 mm bolt length**

Version D, left, outward opening.

Connection cable

Dimensioned drawings

Switch functions

These electrical safety locks function according to the load current principle and are available with 35mm or 65mm bolts.
Four versions are available. They differ in respect of the side on which they open and the direction of opening.
They are designated C, D, E, and F.
The last digit in the type number indicates the version.
Please note that these locks are not classified according to the normal DIN system. They are viewed from the outside, i.e. from the free-wheeling handle side.
Example:
Lock 019 050 followed by "right, inward opening" corresponds to version E

Handles connected to the outside face of the lock are free-wheeling and can be electrically engaged if necessary. In this way the door can be opened from the inside.
The door has an emergency egress function, which means that it can be opened with the inside handle at any time.

	B	C	D	
Euro-prof.cyl.	72	30	8	mm
swiss prof.cyl.	74	28	6	mm

Warning!
Dimensions B, C and D depend on cylinder form.

Fittings for safety-locks

On account of the free-wheeling function with split follower, the door handles require their own mechanical guidance. Our range of security lock fittings with cylinder protection are designed to match the electrical safety lock.

They offer the required mechanical guidance as well as stability. The fittings can be supplied in special steel or in anodized aluminium. For use in emergency doors according to EN179 only the fittings offered here are allowed.

019070 **Stainless steel fitting for 809 lock with 35 mm bolt length**

Fitting for backset of 35 mm and cylinder distances of 9 – 12 mm

019072 **Stainless steel fitting for 809 lock with 65 mm bolt length**

Fitting for backset of 65 mm and cylinder distances of 11 – 17 mm

Screws and spindles

The range of acessories exists of the following components:
- Screws
- Spindles for inside and outside
- Fittings
- Strike plates

the comonents are adjusted to each other to guarantee a non-problematic mounting of a complete lock with all its attachment parts.

Screws / spindles

Depending on the thickness of the door leaf and the backset different screws and spindles for inside and outside are required. The suitable screws and spindles can easily be found in the spreadsheet below. There also the corresponding item no. can be found. Please note that depending on the shape of the door handle 90° (DM 65 mm) and/or 45° (DM 35 mm) the XP and XF dimensions may be different as the space for acceptance of the spindle in the handle with 45° and 90° angeled handels is different.

Spindles for outside handles

Item no.	XF dimension for backset 35 mm	XF dimension for backset 65 mm	Length in mm	Price €
019222	21-24,5	14,5-24,5	50	
019225	31,5-35	25-35	60,5	
019228	42-45,5	35,5-45,5	71	
019231	52,5-56	46-58	81,5	
019232	56-77	56,5-75	100 adjust on site	

Spindles for inside handles

Item no.	XF dimension for backset 35 mm	XF dimension for backset 65 mm	Length in mm	Price €
019235	25-28,5	17,5-27,5	45	
019238	35,5-39	28-38	55,5	
019240	42,5-46	-	62,5	
019241	46-49,5	38,5-48,5	66	
019244	56,5-60	49-59	76,5	

3 x M6 / 2 x M8 screws each, corresponding allen wrenches

Screws

Item no.	Thickness of door leaf in mm	Length in mm	Price €
019201	35-40	45	
019202	43-47	50	
019203	48-52	55	
019204	53-57	60	
019205	58-62	65	
019206	63-67	70	
019207	68-72	75	
019208	73-77	80	
019209	78-82	85	

The diagram below gives all the relevant criteria for calculating the dimensions of the required components.

Face plates for for safety locks

The face plate is mounted in the door frame as the counterpart to the door lock.

Different face plates are available depending on the type of application, frame construction and security requirements.

022090 **Adjustable locking plate**

For electrical safety lock 809 and motor lock 509x.

019059 **Flat face plate, 24 mm wide, for electrical safety lock**

Electrical locking elements (DORMA)

- Door strikes
- Motor locks
- Key switches
- Protective coatings

Electric door strikes / Security door strikes

Technical Data

Rated voltage	12 V DC
Current consumption	0,22 A
Operating time	100%
Dimensions	20,5 x 84 x 28 mm, RR Version (without strikie plate)

Dimensional drawing in mm (019500, 019502 and 019505)

019500 Electric door strike Universal DIN left and DIN right, load current

Symmetric standard door strike incl. monitoring contact, load current, with adjustable latch bolt, universal DIN L and DIN R, and for use with flush and plain doors (position-independent).

FLM 24 stainless steel flat striking plate and free wheeling diode.

019502 Electric door strike Universal DIN left and DIN right, quiescent current

Symmetric standard door strike incl. monitoring contact, no-load current, with adjustable latch bolt, universal DIN L and DIN R, and for use with flush and plain doors (position-independent).

FLM 24 stainless steel flat striking plate and free wheeling diode.

019505 Security door strike DIN L and DIN R

Symmetric security door strike incl. monitoring contact, load current, with adjustable latch bolt, universal DIN L and DIN R, and for use with flush and plain doors (position-independent).

FLM 24 stainless steel flat striking plate and free wheeling diode.

Dimensional drawing of the striking plate

Dimensional drawing in mm (stainless steel flat striking plate FLM 24).

019510 Angled striking plate for door strikes 019500, 019502 and 019505 DIN R

Angled face plate DIN R, rounded-off edges

Technical Data

Dimensions (W1 x W2 x H x D)	25 x 32 x 250 x 3 mm

Dimensional drawing in mm.

019511 Angled striking plate for door strikes 019500, 019502 and 019505 DIN L

Angled striking plate DIN L, rounded-off edges

Technical Data

Dimensions (W1 x W2 x H x D)	25 x 32 x 250 x 3 mm

Variants SVP

Cylinder	Distance A	Door type	Bolt length B	Opening	DIN	Type	Item no.
PZ	72	Rebated door Face plate: 235 x 20	55	outwards	L	SVP 6251	X
					R	SVP 6252	X
				inwards	L	SVP 6253	X
					R	SVP 6254	X
			60	outwards	L	SVP 6261	X
					R	SVP 6262	X
				inwards	L	SVP 6263	X
					R	SVP 6264	X
			65	outwards	L	SVP 6271	X
					R	SVP 6272	X
				einwärts	L	SVP 6273	X
					R	SVP 6274	X
		Plain door Face plate: 235 x 24	55	einwärts	L	SVP 6255/6258	X
					R	SVP 6256/6257	X
				outwards	L	SVP 6256/6257	X
					R	SVP 6255/6258	X
			60	inwards	L	SVP 6265/6268	X
					R	SVP 6256/6267	X
				outwards	L	SVP 6266/6267	X
					R	SVP 6265/6268	X
			65	inwards	L	SVP 6275/6278	X
					R	SVP 6276/6277	X
				outwards	L	SVP 6276/6277	019540.10
					L	SVP 6276/6277	019541.10
					R	SVP 6275/6278	019542.10
					R	SVP 6275/6278	019543.10
	92	Profile frame door Face plate: 270 x 24	35	inwards	L	SVP 6710	X
					R	SVP 6719	X
				outwards	L	SVP 6719	019544
					L	SVP 6719	019545
					R	SVP 6710	019546
					R	SVP 6710	019547
			45	inwards	L	SVP 6730	X
					R	SVP 6739	X
				outwards	L	SVP 6739	X
					R	SVP 6730	X
RZ	74	Rebated door Face plate: 235 x 20	60	outwards	L	SVP 6361	X
					R	SVP 6362	X
				inwards	L	SVP 6363	X
					R	SVP 6364	X
			65	outwards	L	SVP 6371	X
					R	SVP 6372	X
				inwards	L	SVP 6373	X
					R	SVP 6374	X
		Plain door Face plate: 235 x 24	60	inwards	L	SVP 6365/6368	X
					R	SVP 6366/6367	X
				outwards	L	SVP 6366/6367	X
					R	SVP 6365/6368	X
			65	inwards	L	SVP 6375/6378	X
					R	SVP 6376/6377	X
				outwards	L	SVP 6376/6377	X
					R	SVP 6375/6378	X

All dimensions in mm.
L = DIN-left, R = DIN-right

X = available as featured article. All locks available as 12/24 V variant, operating current o quiescent current.
Further variants on request.

Cylinder	Distance A	Door type	Bolt length B	Opening	DIN	Type	Item no.
RZ	94	Profile frame door Face plate: 270 x 24	35	inwards	L	SVP 6810	X
					R	SVP 6819	X
				outwards	L	SVP 6819	X
					R	SVP 6810	X
			45	inwards	L	SVP 6830	X
					R	SVP 6839	X
				outwards	L	SVP 6839	X
					R	SVP 6830	X
PZ	72	Rebated door Face plate: 235 x 20	55		L	SVP 2251	X
					R	SVP 2252	X
			60		L	SVP 2261	X
					R	SVP 2262	X
			65		L	SVP 2271	X
					R	SVP 2272	X
			80		L	SVP 2281	X
					R	SVP 2282	X
			100		L	SVP 2291	X
					R	SVP 2292	X
		Plain door Face plate: 235 x 24	55		L/R	SVP 2257/2258	X
			60		L/R	SVP 2267/2268	X
	72	Plain door Face plate: 270 x 24	65		L/R	SVP 2277/2278	019522
	92	Profile frame door Face plate: 270 x 24	35		L/R	SVP 2719	019520
			45		L/R	SVP 2739	X
RZ	74	Rebated door Face plate: 235 x 20	65		L	SVP 2371	X
					R	SVP 2372	X
			80		L	SVP 2381	X
					R	SVP 2382	X
		Plain door Face plate: 235 x 24	65		L/R	SVP 2377/2378	X
	94	Profile frame door Face plate: 270 x 24	35		L/R	SVP 2819	X
			45		L/R	SVP 2839	X

All dimensions in mm.
L = DIN-left, R = DIN-right

X = available as featured article. All locks available as 12/24 V variant, operating current o quiescent current. Further variants on request.

Application example

019520 **Motor lock DIN L / DIN R, bolt length 35, type SVP 2719**

Self-locking anti-panic motor lock with mechanical and electrical sequence protector for operation via external motor lock control SVP-S2x DCW LON.

Equipped with microswitches for detecting "locked", "unlocked", "Door open/closed" and "Handle pressed / Panic unlocking".

Technical Data

Material	face plate stainless steel
Dead bolt throw	20 mm
Square nut	9 mm
Distance	92 mm
perforated	for profile cylinder
Bolt length	35 mm, behind bolt length 15,5 mm
Box staple	in DIN dimensions, corrosion-resistant
Face plate	270 x 24 mm

Performance Features

- Two-point locking through spring initial tension after closing the door
- Three-step safety bolt
- Universal control latch (24 mm DIN left and DIN right face plate versions can be used)
- Panic unlocking via handle, changing to unlocking from outside via key

Stainless steel flanged face plate, universal for left- and right-hand profiled frame door.

The "Permanently Open" function of motor locks must not be used on fire and smoke barrier doors since the locking of the door is not guaranteed in case of fire.

When using SVP 2000 motor locks in fire and smoke barrier doors, the control must be de-energised by means of a fire/smoke detector approved by the building authority!

A door reed contact is required. Please order separately.

Flanged face plate.

Accessories:

019529 Connecting cable, 12-wire, 10 m, type SVP-A 1000

Dimensional drawings for motor locks type SVP 2xxx and key switches SVP 6xxx

Picture showing

Motor lock type 2719 for profile frame door

019522 **Motor lock DIN L / DIN R, bolt length 65 mm, type SVP 2277/2278**

Self-locking anti-panic motor lock SVP 2277/2278 with mechanical and electrical sequence protector for operation via external motor lock control SVP-S2x DCW LON.

Equipped with microswitches for detecting "locked", "unlocked", "Door open/closed" and "Handle pressed / Panic unlocking".

Technical Data

Material	face plate stainless steel
Dead bolt throw	20 mm
Square nut	9 mm
Distance	72 mm
perforated	for profile cylinder
Bolt length	65 mm
Box staple	in DIN dimensions, corrosion-resistant
Face plate	235 x 24 mm

Performance Features

- Two-point locking through spring initial tension after closing the door
- Three-step safety bolt
- Universal control latch (24 mm DIN left and DIN right face plate versions can be used)
- Panic unlocking via handle, changing to unlocking from outside via key

Stainless steel flanged face plate, universal for left- and right-hand plain doors.

The "Permanently Open" function of motor locks must not be used on fire and smoke barrier doors since the locking of the door is not guaranteed in case of fire.

When using SVP 2000 motor locks in fire and smoke barrier doors, the control must be de-energised by means of a fire/smoke detector approved by the building authority!

A door reed contact is required. Please order separately.

Flanged face plate.

Accessories:

019529 Connecting cable, 12-wire, 10 m, type SVP-A 1000

Dimensional drawings for motor locks type SVP 2xxx and key switches SVP 6xxx

Picture showing

Motor locks type SVP 227x and key switches type SVP 627x for massive door leaf (plain door)

019525 **SVP-PR 12 Power Reserve Module for fire and smoke protection doors**

Additional module for ensuring automatic relocking in case of power failure, obligatory for use in fire and smoke protection doors.

Fixing material and connection cable.

SVP-S xx DCW motor lock controls

Re-locking time (2 - 255 seconds) via TMS-Soft software via integrated RS 232 interface freely parameterisable at any time.

Integrated seasonal timer, 3 non-isolated inputs for activation, and two potential-free relay outputs freely parameterizable.

Unlocking or Permanently Open (switches off self-locking, for example for day operation).

Freely selectable messages, “unlocked”, “locked”, “Door open/closed”, “Handle pressed/Panic unlocking” are available potential-free via relay outputs.

019526 **SVP-S 22 DCW motor lock control 12/24 V**

For SVP anti-panic motor locks.

Technical Data

Rated operating voltage	12/24 V DC
Quiescent current	ca. 65 mA
Contact rating	24 V DC, 0.5 A inductive / 1.0 A ohmic
Dimensions housing (W x H x D)	ca. 200 x 120 x 90 mm
Starting current	1 A at 12 V

For mounting in switch cabinets and rescue route panels RZ TMS (Item no. 019555).
The “Permanently Open” function of motor locks must not be used on fire and smoke barrier doors since the locking of the door is not guaranteed in case of fire.
When using SVP 2000 motor locks in fire and smoke barrier doors, the control must be de-energised by means of a fire/smoke detector approved by the building authority!

019527 SVP-S 23 DCW motor lock control 12/24 V

For SVP anti-panic motor locks.

Technical Data

Rated operating voltage	12/24 V DC
Quiescent current	ca. 65 mA
Contact rating	24 V DC, 0.5 A induktiv / 1.0 A ohmsch
Type of protection	IP 40
Dimensions housing (W x H x D)	ca. 200 x 120 x 90 mm
Starting current	1 A at 12 V

pcb mounted in plastic housing.
The “Permanently Open” function of motor locks must not be used on fire and smoke barrier doors since the locking of the door is not guaranteed in case of fire.
When using SVP 2000 motor locks in fire and smoke barrier doors, the control must be de-energised by means of a fire/smoke detector approved by the building authority!

019528 SVP-S 24 DCW motor lock control 230 V

For SVP anti-panic motor locks.

Technical Data

Rated operating voltage	230 V AC +/-10 %
Contact rating	24 V DC, 0,5 A inductive / 1.0 A ohmic
Type of protection	IP 54
Dimensions housing (W x H x D)	ca. 200 x 120 x 90 mm

Includes power supply unit mounted in plastic housing.
The “Permanently Open” function of motor locks must not be used on fire and smoke barrier doors since the locking of the door is not guaranteed in case of fire.
When using SVP 2000 motor locks in fire and smoke barrier doors, the control must be de-energised by means of a fire/smoke detector approved by the building authority!

019529 SVP-A 1000 connection cable, 12-wire, 10 m

Connecting cable, highly flexible, 12-wire, with coupling attached on one side for polarity-reversal-protected connection to the electric anti-panic locks, key switches and motor locks SVP 2000 and 6000.

Technical Data

Length	10 m
Diameter	6.5 mm

Accessories:

Reed contact (see Catalouge chapter alarm contacts)

Anti-panic key switches, type 627x

Self-locking anti-panic key switch, load current design, inward right, electrically monitored, with divided follower, electrically activated external handle in load current design and mechanical sequence protector.

Equipped with microswitches for detecting "locked", "unlocked", "Door open/closed" and "Handle pressed / Panic unlocking".

Technical Data

Perforated for	Profile cylinder
Distance	72 mm
Backset	65 mm
Dead bolt throw	20 mm
Square nut	9 mm, split
Contact rating	max. 30 V DC, 1.5 W
Box staple	in DIN dimensions, corrosion-resistant
Dimensions face plate	235 x 24 mm

Performance Features

- "Handle pressed/Panic unlocking" switching point before "unlocked/locked"
- In de-energized state, the external handle is uncoupled
- The external handle is coupled or uncoupled by activating the magnetic coil in the lock
- The handle is always coupled in the escape direction
- Permanently open (permanent coupling of the external handle, for example for day operation) is possible
- Two-point locking through spring initial tension after closing the door
- Three-step safety bolt. Universal control latch. Unlocking from the outside by key or couplable external handle

Dimensional drawings for motor locks type SVP 2xxx and key switches SVP 6xxx

Picture showing

Motor locks type SVP 227x and key switches type SVP 627x for massive door leaf (plain door)

019540.10 **SVP 6276/6277 Anti-panic key switch**

DIN L / DIN R, bolt length 65, 12 V DC, outward left.

Technical Data

Rated operating voltage	12 V DC, stabilised
Current consumption	max. 0,4 A

Stainless steel flanged face plate.
Used for DIN right plain door inward right and DIN left plain door outward left.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019541.10 **SVP 6276/6277 Anti-panic key switch**

DIN L / DIN R, bolt length 65, 24 V DC, outward left.

Technical Data

Rated operating voltage	24 V DC, stabilised
Current consumption	max. 0,2 A

Stainless steel flanged face plate.
Used for DIN right plain door inward right and DIN left plain door outward left.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019542.10 **SVP 6275/6278 Anti-panic key switch**

DIN L / DIN R, bolt length 65, 12 V DC, outward right.

Technical Data

Rated operating voltage	12 V DC, stabilised
Current consumption	max. 0,4 A

Stainless steel flanged face plate.
Used for DIN right plain door inward left and DIN left plain door outward right.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019543.10 **SVP 6275/6278 Anti-panic key switch**

DIN L / DIN R, bolt length 65, 24 V DC, outward right.

Technical Data

Rated operating voltage	24 V DC, stabilised
Current consumption	max. 0,2 A

Stainless steel flanged face plate.
Used for DIN right plain door inward left and DIN left plain door outward right.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

Anti-panic key switches DIN L / DIN R

Self-locking anti-panic key switch, load current design, inward right, electrically monitored, with divided follower, electrically activated external handle in load current design and mechanical sequence protector.

Equipped with microswitches for detecting "locked", "unlocked", "Door open/closed" and "Handle pressed / Panic unlocking".

"Handle pressed/Panic unlocking" switching point before "unlocked/locked". In de-energized state, the external handle is uncoupled. The external handle is coupled or uncoupled by activating the magnetic coil in the lock.

The handle is always coupled in the escape direction.

Performance Features

- Permanently open (permanent coupling of the external handle, for example for day operation) is possible
- Two-point locking through spring initial tension after closing the door
- Three-step safety bolt
- Universal control latch (24 mm DIN left and DIN right face plate versions can be used)
- Unlocking from the outside by key or couplable external handle

Technical Data

Perforated for	Profile cylinder
Distance	92 mm
Bolt length	35 mm, behind bolt length 15,5 mm
Dead bolt throw	20 mm
Square nut	9 mm, split
Contact rating	max. 30 V DC, 1,5 W
Box staple	in DIN dimensions, corrosion-resistant
Face plate	270 x 24 mm

Dimensional drawings for motor locks type SVP 2xxx and key switches SVP 6xxx

Picture showing

Key switch type SVP 6719, SVP 6710 for profiled frame door

019544 **SVP 6719 Anti-panic key switch**

DIN L / DIN R, bolt length 35, 12 V DC, outward left.

Technical Data

Rated operating voltage	12 V DC, stabilised
Current consumption	max. 0,4 A

Stainless steel flanged face plate.
Used for DIN right profiled frame door inward right and DIN left profiled frame door outward left.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019545 **SVP 6719 Anti-panic key switch**

DIN L / DIN R, bolt length 35, 24 V DC, outward left.

Technical Data

Rated operating voltage	24 V DC, stabilised
Current consumption	max. 0,2 A

Stainless steel flanged face plate.
Used for DIN right profiled frame door inward right and DIN left profiled frame door outward left.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019546 **SVP 6710 Anti-panic key switch**

DIN L / DIN R, bolt length 35, 12V DC, outward right.

Technical Data

Rated operating voltage	12 V DC, stabilised
Current consumption	max. 0,4 A

Stainless steel flanged face plate.
Used for DIN right profiled frame door outward right and DIN left profiled frame door inward left.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019547 **SVP 6710 Anti-panic key switch**

DIN L / DIN R, bolt length 35, 24V DC, outward right.

Technical Data

Rated operating voltage	24 V DC, stabilised
Current consumption	max. 0,2 A

Stainless steel flanged face plate.
Used for DIN right profiled frame door outward right and DIN left profiled frame door inward left.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

Armatures for safety locks

019530 Aluminium protective coating, PZ 72 mm, long plate, type SVP-SB 210

Protective coating according to DIN 18257 ES 1 including core drawback protector for SVP 2000 full-leaf locks, checked for fire and emergency exit doors, long plate, replacement kit including 9 mm square pin. Also for use with M-SVP 2000 for full-leaf doors (bolt length 65 mm).

Technical Data

Distance	Profile cylinder 72 mm
Door leaf thickness	45 - 54 mm
Cylinder excess length	9 - 15 mm
Colour	alu-silver

019531 Aluminium protective coating, PZ 92 mm, short plate, type SVP-SB 710

Protective coating according to DIN 18257 ES 1 including core drawback protector for SVP 2000 tubular frame locks, checked for fire and emergency exit doors, short plate, replacement kit including 9 mm square pin. Also for use with MSVP 2000 for profiled systems (bolt length 35 mm).

Technical Data

Distance	Profile cylinder 92 mm
Door leaf thickness	55- 74 mm
Cylinder excess length	9 - 15 mm
Colour	alu-silver

019534 Aluminium protective coating, PZ 72 mm, long plate, type SVP-SB 211

Protective coating according to DIN 18257 ES 1 including core drawback protector for SVP 6000 full-leaf locks, checked for fire and emergency exit doors, long plate, handle on both sides includes divided square pin (bolt length 65 mm).

Technical Data

Distance	Profile cylinder 72 mm
Door leaf thickness	45 - 54 mm
Cylinder excess length	9 - 15 mm
Colour	alu-silver

019533 Aluminium protective coating, PZ 92 mm, short plate, type SVP-SB 711

Protective coating according to DIN 18257 ES 1 including core drawback protector for SVP 6000 tubular frame locks, checked for fire and emergency exit doors, short plate, handle on both sides includes divided square pin (bolt length 35 mm).

Technical Data

Distance	Profile cylinder 92 mm
Door leaf thickness	55 - 74 mm
Cylinder excess length	9 - 15 mm
Colour	alu-silver

Dimensional drawings for protective coatings SVP-SB 21x

Dimensional drawings for protective coatings SVP-SB 71x

Notes

Order forms

- WINMAG plus
- WINMAG Lite
- IQ SystemControl / WINFEM-User
- IQ MultiAccess / MultiAccess Lite

Customer service

List of article numbers

Terms and conditions

CO no.

Order form WINMAG plus

Telefax master copy

Honeywell Security Group
Novar GmbH
Johannes-Mauthe-Str. 14
72458 Albstadt

Internal Sales Department:
Fax: +49 74 31/801-16 71

1. Licence (Please fill in the form for data collection.)

End user data: (data must be entered: min. 8, max. 45 characters)	**Example:**
Name:	Novar GmbH
Street:	Johannes-Mauthe-Str. 14
ZIP-Code/Residence:	72458 Albstadt
Country:	Germany
Object:	Central Monitoring Station/Building

Installer data: (data must be entered: min. 3, max. 45 characters)		**Example:**
Name:		Brown Engineering Co.
Street:		Liverpool Road
ZIP-Code/Residence:		GBM3 4 Manchester
Country:		United Kingdom
Contact person:		Edward G. Wilson
Entry of data optional: (max. 12 characters)		
Phone:	**Fax:**	+49 7431/000-1234
E-mail: (max. 45 characters)		info@brown.uk

2. Ordering (One of the following must be selected.)

2.1 WINMAG plus Management System Basic Package (select options on page 2)

☐ 013610 WINMAG plus standard (Demo without licence), must be ordered for every new installation, **and**
- ☐ 013630 WINMAG plus standard licence (parallel interface hardware key), **or**
- ☐ 013631 WINMAG plus standard licence (USB interface hardware key)

(The standard licence requires 013610 - please order or download from our website.)

☐ 013590 Gateway including OPC-Server and USB dongle

_____ 013618 Data Points Package (must be ordered, 1 package = 500 data points)

☐ 013607 Developer Kit WINMAG SDK
(This package contains the ConnectionServer Developer Kit including the complete documentation)

☐ 012590 PanelPC with WINMAG touch and USB dongle (incl. option intrusion and fire detection)

☐ 012591 WINMAG touch without PanelPC (basic package with USB dongle)

Languages: ☐ Chinese (CN) ☐ Czech (CZ) ☐ German (DE) ☐ English (UK) ☐ Spanish (ES)
☐ French (FR) ☐ Hungarian (HU) ☐ Italian (IT) ☐ Dutch (NL) ☐ Romanian (RO)
☐ Russian (RU) ☐ Croatian (HR) ☐ Slovak (SK) ☐ Polish (PL)

2.2 WINMAG Upgrade

☐ 013616 Upgrade of a WINMAG-installation from V6.0 to WINMAG plus or

☐ 013617 Upgrade of a WINMAG-installation up to V5.0 to WINMAG plus
- ☐ for USB interface
- ☐ for Parallel interface

Please enter the licence/update number. **Update-No.:**_____

☐ 013636 WINMAG Lite Upgrade to WINMAG plus Basic Package **Update-No.:**_____

2.3 WINMAG / WINMAG plus later option upgrade (select options on page 2)

☐ 013609 retrofitting of options for WINMAG (from V6.0 on) **Update-No.:**_____

Updates or option upgrades require the update number!

CO no.

Order form WINMAG plus

3. Options (a basic license is required for each connection)

Telefax master copy

	Multi-station / distributed PCs					
Item no. Designation	**Computer 1**	**Computer 2**	**Computer 3**	**Computer 4**	**Computer 5**	**Computer 6**
Computer Name / Interface						
013601 WINMAG Option Intrusion Detection Technology						
013643 WINMAG Option Galaxy Dimension						
013626 WINMAG Option Fire Detection Technology						
013642 WINMAG Option Notifier Fire Panels						
013603 WINMAG Option Access Control						
013638 WINMAG Option Honeywell Video						
013620 WINMAG Option MaxPRO VMS						
013604 WINMAG Option Video Technology						
013629 WINMAG Option Geutebrück Video Connection						
013619 WINMAG Option HeiTel Video Connection						
013658 WINMAG Option SeeTec Video Connection						
013632 WINMAG Option Dallmeier Video Connection						
013605 WINMAG Option Escape Route Technology						
013623 WINMAG Option DEZ 9000 Interfaceing						
013646 WINMAG Option DS 6750 / DS 7700						
013608 WINMAG Option Remonte Data Transmission						
013606 WINMAG Option SDK						
013611 WINMAG Option OPC Server[1)]						
013612 WINMAG Option OPC Client						
013613 WINMAG Option Notifikation						
013650 WINMAG Option Escalation						
013651 WINMAG Option DTMF						
013652 WINMAG Option Client Processing Ability						
013653 WINMAG Option Multi-Monitor						
013660 WINMAG Option WEBX						
013655 Licence Auto-CAD® Connection						
013624 WINMAG Option Redundancy						
013625 WINMAG Option Client Connection[2)]						
013627 WINMAG Option BACnet Server						
013628 WINMAG Option BACnet Client						
013659 WINMAG Licence 3D Integration						
013661 WINMAG Licence DTS system						
013662 WINMAG Licence Card Reader Station						
013656 WINMAG Licence Nurse						

[1)] Please order the required quantity of 013618 on page 1.
[2)] Number of PCs to which network data are transmitted.

CO no.

Order form WINMAG Lite

Telefax master copy

Honeywell Security Group
Novar GmbH
Johannes-Mauthe-Str. 14
72458 Albstadt

Internal Sales Department:
Fax: +49 7431/801-1671

1. Licence (Please fill in the form for data collection.)

End user data: (data must be entered: min. 8, max. 45 characters)	**Example:**
Name:	Novar GmbH
Street:	Johannes-Mauthe-Str. 14
ZIP-Code/Residence:	72458 Albstadt
Country:	Germany
Object:	Central control unit/building

Installer data: (data must be entered: min. 3, max. 45 characters)	**Example:**
Name:	Brown Engineering Co.
Street:	Liverpool Road
ZIP-Code/Residence:	GBM3 4 Manchester
Country:	United Kingdom
Contact person:	Edward G. Wilson
Entry of data optional: (max. 12 characters)	
Phone:	+49 7431/000-1234
Fax:	+49 7431/000-5678
E-mail: (max. 45 characters)	info@brown.uk

2. Ordering

2.1 WINMAG Lite

☐ 013635 WINMAG Lite, package incl. USB-Dongle, **(Only one licence available!)**

☐ 013637 WINMAG Lite Upgrade to WINMAG lite latest version

All sales are subject to our sales and delivery conditions. · Subject to modifications and errors.

CO no.

Order form IQ SystemControl / WINFEM-User

Telefax master copy

Honeywell Security Group
Novar GmbH
Johannes-Mauthe-Str. 14
72458 Albstadt

Internal Sales Department:
Fax: +49 7431/801-1671

1. Licence (Please fill in the form for data collection.)

End user data: (data must be entered: min. 8, max. 45 characters)	**Example:**
Name:	Novar GmbH
Street:	Johannes-Mauthe-Str. 14
ZIP-Code/Residence:	72458 Albstadt
Country:	Germany
Object:	Main building

Installer data: (data must be entered: min. 3, max. 45 characters)	**Example:**
Name:	Brown Engineering Co.
Street:	Liverpool Road
ZIP-Code/Residence:	GBM3 4 Manchester
Country:	United Kingdom
Contact person:	Edward G. Wilson
Entry of data optional: (max. 12 characters)	
Phone:	+49 7431/000-1234
Fax:	+49 7431/000-5678
E-mail: (max. 45 characters)	info@brown.uk

2. Ordering data

2.1 IQ SystemControl

- ☐ 013596 IQ SystemControl (for 561-MB100.10/48/24 from V9 on)
- ☐ 013598 _____ Quantity of Option IQ User ControlCenter
- ☐ 029650 Option SALTO connection
- ☐ 029651 _____ Quantity of SALTO readers

2.2 WINFEM-User

- ☐ 013595 WINFEM-User (for 561-MB100/48/24 up to V8 and 561-MB256 plus)

2.3 Language: _____

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CO no.

Order form IQ MultiAccess / MultiAccess Lite

Telefax master copy

Honeywell Security Group
Novar GmbH
Johannes-Mauthe-Str. 14
72458 Albstadt

Internal Sales Department:
Fax: +49 7431/801-1671

1. Licence (Please fill in the form for data collection.)

End user data: (data must be entered: min. 8, max. 45 characters)	**Example:**
Name:	Novar GmbH
Street:	Johannes-Mauthe-Str. 14
ZIP-Code/Residence:	72458 Albstadt
Country:	Germany
Object:	Access control system
Licence number: (for updates or function extensions)	

Installer data: (data must be entered: min. 3, max. 45 characters)	**Example:**
Name:	Brown Engineering Co.
Street:	Liverpool Road
ZIP-Code/Residence:	GBM3 4 Manchester
Country:	United Kingdom
Contact person:	Edward G. Wilson
Entry of data optional: (max. 12 characters)	
Phone:	+49 7431/000-1234
Fax:	+49 7431/000-5678
E-mail: (max. 45 characters)	info@sample.uk

2. Order data

1. Demo version IQ MultiAccess

☐ 029600 Demo version IQ MultiAccess

CO no.

Telefax master copy

Order form IQ MultiAccess / MultiAccess Lite

2. Order data IQ MultiAccess

Basic Package	Professional Package	Licence for number of persons
☐ 029601	☐ 029631	up to 300 persons
☐ 029602	☐ 029632	up to 500 persons
☐ 029603	☐ 029633	up to 800 persons
☐ 029604	☐ 029634	up to 1000 persons
☐ 029605	☐ 029635	up to 1500 persons
☐ 029606	☐ 029636	up to 2000 persons
☐ 029607	☐ 029637	up to 3000 persons
☐ 029608	☐ 029638	up to 5000 persons
☐ 029609	☐ 029639	up to 7500 persons
☐ 029610	☐ 029640	up to 10000 persons
☐ 029646	☐ 029647	more than 10000 persons

Only for professional package:
Which SQL database (version) is to be supported...

3. Licence extensions IQ MultiAccess, basic and professional version

☐ 029611	from	300	to	500 persons
☐ 029612	from	500	to	800 persons
☐ 029613	from	800	to	1000 persons
☐ 029614	from	1000	to	1500 persons
☐ 029615	from	1500	to	2000 persons
☐ 029616	from	2000	to	3000 persons
☐ 029617	from	3000	to	5000 persons
☐ 029618	from	5000	to	7500 persons
☐ 029619	from	7500	to	10000 persons
☐ 029620	from	10000	to	unlimited number of persons

4. Order options for IQ MultiAccess, basic and professional version

☐ 029621		Option Database partitioning for multi-tenant systems
☐ 029622		Option Antipassback, balancing, barring repeated entry, virtual tableau
☐ 029624		Option Life image comparison
☐ 029625		Option card and form management
☐ 029626		Option Integration of Intruder Alarm Panels MB24/48/100
☐ 013598	_____	Quantity of Option IQ User ControlCenter
☐ 029650		Option SALTO connection
☐ 029651	_____	Quantity of SALTO readers

5. Upgrades for basic and professional version

☐ 029641	Upgrade MultiAccess for Windows to IQ MultiAccess current version
☐ 029642	Upgrade MultiAccess Lite to IQ MultiAccess with 800 persons
☐ 029643	Upgrade IQ SystemControl to IQ MultiAccess with 500 persons incl. 029626
☐ 029645	Upgrade IQ MultiAccess older version to IQ MultiAccess current version

All sales are subject to our sales and delivery conditions. · Subject to modifications and errors.

Customer Service Centre Application Technology

To assist you in troubleshooting and repair, our service team can be contacted daily during the following office hours:

Monday - Thursday	7:30 h to 17:00 h
Friday	7:30 h to 15:00 h

This service is free of charge. When you use this service, please give your customer number.

Attention! No commissioning of systems any longer possible over the telephone.

For the Security product line, our service team can be reached at the following collective call number:

Support international	+49 (0) 7431 / 801-1800
for Domonial und Galaxy II	+49 (0) 7431 / 801-1810
for intrusion detection systems	+49 (0) 7431 / 801-1820
for AC	+49 (0) 7431 / 801-1830
for time recording	+49 (0) 7431 / 801-1840
for WINMAG	+49 (0) 7431 / 801-1850
and for escape route technology	+49 (0) 7431 / 801-1860
for Video	+49 (0) 7431 / 801-1870

Packaging/Shipping

Packaging and shipping costs are charged depending on the value of the goods. The larger the value of goods of an order, the lower the packaging and shipping costs.

Standard shipping fees

0.00 € to 1000.00 €	Shipping fee 3.0%
1001.00 € to 2500.00 €	Shipping fee 1.5%
2501.00 € to 5000.00 €	Shipping fee 0.5%
5001.00 € and more	free of charge to address of buyer

Partial deliveries are charged according to the value of goods, relative to the entire order.

Important shipping information

- The goods will always be shipped by the shipping type that is cheapest to us.
- Special express shipping types (such as UPS Express) will only be used at the special request of the customer. These special shipping costs at the cheapest house fee must be paid for by the customer (recipient).

Novar GmbH warranty

- The warranty period is 24 months from the date of delivery.
- Any claim under warranty must be proven by the customers by means of an invoice copy or the delivery note.
- The test or inspection stickers attached to the units or components are the basis of the claim under warranty. If they have been removed, any claims under warranty become void.
- Warranty is given for damage and defects in components which can be proven to have been caused by manufacturing errors.
- Please, send the defective parts along with the invoice copy or the delivery note and a description of the defect to our repair/return department (the address can be found under Processing of Repairs and Replacement Components).
- For components available as replacement components, a previous delivery of a replacement component is also possible as part of the warranty settlement.
- For components that cannot be repaired, for example those that have been damaged mechanically or by excess voltage, no replacement is possible under warranty. After consultation with the customer, they will be sent back or disposed of free of charge.
- For all other cases, our sales and delivery conditions shall apply.

Return of units

Units can be returned within the first 6 months from the date of delivery. We shall take back only goods in their original packaging. When returning goods, please always enclose the delivery note or an invoice copy.
We shall charge 15% of the purchase price.

Return of units

Units can be returned within the first 6 months from the date of delivery. We shall take back only goods in their original packaging. When returning goods, please always enclose the delivery note or an invoice copy.
We shall charge 15% of the purchase price. 7

Training offers

For assistance and further education, we offer an extensive training program.
Training will usually take place at decentralised sites near you.
In our training program, you will find information on the training contents, dates, training sites, prices and the organisational sequence.
The course fees also include daily meals. Travel expenses and, if required, costs for overnight stays must be paid by the training participant.

The current training program and any further information is available at phone +49 (0) 7431/801-1805 or as a download from the Internet.

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Terms and conditions

Except as agreed in writing, the following terms and conditions apply without exception to all sales by Novar GmbH, Johannes-Mauthe-Str. 14, 72458 Albstadt, Germany ("Novar") to Buyer.

1 SOLE TERMS

Novar's sale is expressly limited to the terms herein. Any additional or different terms or conditions on Buyer's purchase order or any other instrument, agreement or understanding are deemed to be material alterations and are rejected and not binding upon Novar. Novar's acceptance of Buyer's purchase order is expressly conditional upon Buyer's assent to the terms and conditions contained herein in their entirety. Buyer's acceptance of delivery from Novar constitutes Buyer's acceptance of these terms and conditions in their entirety.

2 QUOTE/PRICES

2.1 Information in any quotations and in attached drawings and illustrations about the goods, their measurements and weights are only approximate unless they are expressly stated as being binding.

2.2 Content and scope of the supply are determined exclusively on the basis of Novar's written quotation and order confirmation.

2.3 Novar's quotations are subject to change until accepted by Buyer. If an offer is stated as being binding, it shall be binding for 3 months from its date of issue.

2.4 Novar reserves the right to make technical changes to construction, form and material of goods – also during the delivery time – providing these changes are reasonably acceptable to Buyer. If the parties agree to changes to the goods or services to be supplied, Novar is entitled to claim additional costs with immediate effect and is not obliged to perform the contract until Buyer agrees to make such payments.

2.5 Buyer must request shipment of the entire quantity of goods ordered within 12 months from date of order; otherwise, Novar standard prices at time of shipment may, at Novar's option, apply to those quantities actually delivered, even if already invoiced.

2.6 Unless specifically agreed in writing, prices for goods do not include the cost of packaging, or services such as installation, start-up, commissioning or maintenance. If Novar has expressly agreed to ship goods, shipment costs will be as per the quote or, if none is mentioned, per the relevant catalogue.

2.7 All tooling, designs, drawings and other intellectual property produced or delivered hereunder are owned by Novar.

3 PAYMENT

3.1 Unless otherwise expressly agreed in writing, all payments are to be in EUROS and are due net in Novar's account within 30 days from date of invoice.

3.2 All bank charges in connection with any payment shall be paid by Buyer. Cheques and/or bills of exchange will only be accepted in payment's stead and in accordance with a special written agreement. They are deemed as payment only when they have been cashed in.

3.3 Novar at all times reserves the right to evaluate Buyer's credit standing and if Buyer fails to qualify for credit under Novar's criteria, Novar may modify or withdraw credit terms without notice and require guarantees, security or payment in advance for further deliveries of goods. If these are not provided within a reasonable period following a notice, Novar may rescind the contract and/or claim costs, losses or damages.

3.4 Invoices remaining unpaid after their due date will be subject to an interest charge of 8 percentage points above the respective base rate published by the German Federal Bank per year, unless Buyer is not responsible for the default. Buyer will pay all costs necessary for collection of unpaid amounts, including legal fees, unless Buyer is not responsible for the default.

4 DELIVERY, EXAMINATION, RETENTION OF TITLE, COOPERATION

4.1 All delivery dates are estimates unless agreed otherwise by Novar in writing.

If an order does not specify a preferred delivery date or if such information in respect of products is not clearly stated, Novar will stipulate the earliest reasonably practicable date for delivery depending on lead times for the product. If an order is placed after Novar's close of business on a working day, the time period for delivery will be calculated from the next working day.

In case of a conflict between order and order confirmation of Novar, the order confirmation prevails.

4.2 Novar may make deliveries under any order in one or more shipments, to the extent that this is reasonably acceptable to Buyer, and may issue separate invoices.

4.3 Any fixed dates for deliveries agreed in writing are conditional upon the timely provision of all documents by Buyer, any required authorisations and approvals, in particular of plans, and the provision of all necessary information. If these requirements are not fulfilled in a timely manner, the fixed dates will be extended accordingly. This does not apply if Novar is responsible for the delay.

4.4 Novar may demand an appropriate extension of the delivery date in the event of subsequent changes agreed.

4.5 Delivery terms for goods are EX Works (Incoterms 2000) Novar with all risk of loss or damage to goods passing to Buyer upon delivery to carrier.

4.6 Buyer must inspect all goods upon delivery without undue delay and must report:

a) obvious defects, transport damages, discrepancies and shortages without undue delay, and in no event later than 10 days after delivery,

b) hidden defects without undue delay, and in no event later than 10 days after detection in writing to Novar. Otherwise all goods will be deemed delivered and accepted, unless Novar fraudulently neglected to disclose such faults. Buyer will return to Novar any goods that are rejected at his own expense. In the event Buyer refuses to accept delivery, Buyer shall be liable for increased costs incurred by Novar in accordance with section 7 (c).

4.7 Novar shall retain title of all goods delivered by Novar until payment has been made in full. In the event Buyer has credit with Novar, retention of title shall serve as security for any balance due to Novar.

4.8 Until title of the goods is transferred to Buyer, Buyer shall treat the goods with care; in particular it shall insure them sufficiently against fire, water and theft at reinstatement value at its own cost.

4.9 In the event of seizure or any other measure taken by third parties in relation to the goods, Buyer shall notify Novar in writing without undue delay so that Novar can initiate legal proceedings pursuant to § 771 of the German Code of Civil Procedure in order to prevent execution of any court order. If the third party is unable to reimburse the costs incurred in court or out of court of a claim pursuant to § 771 of the German Code of Civil Procedure, Buyer is liable for the damages incurred hereby.

4.10 Any processing of or alteration to the goods carried out by Buyer shall always be carried out for Novar. If the goods are processed with other items that do not belong to Novar, Novar shall acquire co-ownership of the new item in the ratio of the value of the object delivered to the other processed items at the time of processing.

4.11 If the goods are irreversibly mixed with other items that do not belong to Novar, Novar shall acquire co-ownership of the new item in the ratio of the value of the object delivered to the other mixed items at the time of mixing. If the mixing process takes place in such a way that Buyer's item must be regarded as the principal item, the parties shall be deemed to have agreed that Buyer shall transfer shared title to Novar pro rata.

4.12 Should Buyer sell the goods delivered – whether processed or not – in due course of business, it hereby assigns any claims from selling the goods with all ancillary rights vis-à-vis its customer to Novar.

4.13 On good cause Buyer is obliged, if requested by Novar, to inform Novar of any assignment to a third-party purchaser and to give Novar all information required for the assertion of its rights and to hand over any documents.

4.14 Should the realisable value of Novar's security exceed the debt claim to be secured by more than 10%, Novar shall release part of the security – at its discretion – at the request of Buyer.

4.15 Buyer shall make available in time all equipment and grant access to all facilities which Novar may require to perform any services.

5 TAXES

The amount of any and all applicable taxes will be added to the price and paid by Buyer, unless Buyer has provided Novar with exemption certificates acceptable to the taxing authorities.

6 FORCE MAJEURE, DELAY

6.1 Novar is not liable for any delay in production or delivery of goods if due to a force majeure event, which includes, among other things, shortages of or inability to obtain materials or components, or refusals to grant an export license or the suspension or revocation thereof, or any other acts of any government that would limit Novar's ability to perform, fire, earthquakes, floods, severe weather conditions, or any other acts of God, quarantines, epidemics, pandemics, or other regional medical crises, labour strikes or lockouts, riots, strife, insurrection, civil disobedience, armed conflict, terrorism or war (or imminent threat of same), or any other cause whatsoever beyond Novar's reasonable control.

6.2 If the force majeure event continues for longer than 90 days, either party may terminate Buyer's purchase order. If Buyer terminates the order, Buyer will pay Novar for work performed prior to termination and all reasonable expenses incurred by Novar prior to termination. In the event of delays in delivery or performance caused by force majeure or Buyer, the date of delivery or performance shall be extended by the period of time Novar is actually delayed or as mutually agreed. Any claims for damages, costs or losses howsoever construed shall be excluded.

6.3 If, for reasons other than the foregoing, Novar should default or delay or not deliver goods, Buyer's sole remedy against Novar is an option to cancel Buyer's purchase order through prior written notice to Novar. In as far as Buyer incurs damages due to a delivery delay, Novar's liability is limited to 0.5% of the order value of the delayed delivery per week up to a maximum amount of 5% of the order value of the delayed delivery. Buyer is only entitled to claim damages in lieu of performance in accordance with section 11 (limitation of liability).

7 TERMINATION, RETURN OF GOODS

7.1 Buyer may not terminate or cancel a purchase order without Novar's prior written consent. Goods scheduled for shipment within 30 days cannot be rescheduled. Goods scheduled for shipment between 30 and 60 days may be rescheduled with Novar's prior written consent and if rescheduled beyond 60 days that quantity may not be further rescheduled. Buyer is nonetheless liable for termination charges, which may include:

a) a price adjustment based on the quantity of goods delivered,

b) all costs, direct and indirect, incurred and committed for Buyer's terminated purchase order,

c) the full cost of all unique materials required for custom goods, and

d) a pro-rata compensation covering the prorated expenses and anticipated profits consistent with industry standards.

7.2 Novar may terminate Buyer's purchase order in whole or in part upon Buyer's breach of these terms and conditions or Buyer's bankruptcy, insolvency, dissolution or receivership proceedings without any further liability.

7.3 Returns of goods are only accepted in their original packed and sealed condition within 6 months after shipment. Software, customised products and products in opened packaging, lacquered und non-reusable parts cannot be returned. Goods can only be returned with an authorisation number (RMA) obtained from Novar in advance of shipment to Novar. The RMA is specific to the relevant goods and quantity. Novar reserves the right to:

a) reject any return of other goods than specific to the RMA, or

b) charge an additional €25 per return. In case of accepted returns, the purchase price shall be repaid with a deduction of up to 20% for processing, testing, administration and other overheads. The minimum charge for returns is €25 per invoice. This does not affect the Purchaser's rights under the product warranty. If the Purchaser withdraws from the Contract and is not entitled to do so, or if the Purchaser refuses to accept the delivery and is unjustified in doing so, the Seller is entitled to 15% of the agreed price as liquidated damages, unless the Purchaser proves that the Seller has not suffered any damage or to a lesser extent. Reserves the right to claim further damages.

8 INFRINGEMENT INDEMNIFICATION

8.1 Novar agrees to:

a) defend or settle any claim, suit or proceeding brought against Buyer based solely upon a claim that any goods manufactured and provided solely by Novar hereunder directly infringe any third-party German patent, copyright or mask work rights, and

b) pay costs and damages finally awarded to the third party, provided that: (A) Novar is notified promptly in writing of such claim, (B) Novar is provided sole control of such defence or settlement using counsel of Novar's choice, and (C) Buyer provides Novar with all available information and assistance. Because Novar has exclusive control over resolving infringement claims hereunder, in no event will Novar be liable for Buyer's legal fees, if any.

8.2 Novar shall not be responsible for any settlement or compromise of any such third-party claim made without Novar's written consent. Novar has no obligation and this Section 8 will not apply to any claim of infringement of any intellectual property right of a third party in the case of:

a) goods not in Novar's catalogue or goods developed pursuant to Buyer's direction, design, process, or specification,

b) the combination of any goods with other elements if such infringement could have been avoided but for such combination,

c) goods that have been modified if such infringement would have been avoided by the unmodified goods,

d) goods not used for their ordinary purpose, or

e) software if such software is other than the latest version of the software released by Novar and provided to Buyer. Buyer agrees to defend, indemnify and hold harmless Novar from and against any claims, suits or proceedings whatsoever arising from such exclusions identified in this Section 8 (b), unless this is not caused by Buyer's failure.

8.3 At any time after a claim has been made or Novar believes is likely to be made, or a court of competent jurisdiction enters an injunction from which no appeal can be taken, Novar has at its option the discretion to:

a) procure for Buyer the right to continue using such goods,

b) replace or modify such goods in a way that it does not further infringe any third-party intellectual property rights and without affecting the functionality of said goods. In the event Novar fails to do so within a reasonable time limit to be set by Buyer, Novar shall accept the return of such goods and refund the purchase price less 20% annual depreciation from shipment date.

8.4 The foregoing states Buyer's exclusive remedy for any actual or alleged infringement of intellectual property rights. Buyer is only entitled to claim damages subject to section 11 (limitation of liability).

9 SOFTWARE

9.1 The use of software, if provided separately or installed on a good supplied, is governed by the following terms unless a software license agreement is included with such software.

9.2 Subject to Buyer's compliance with these terms and conditions, Novar grants to Buyer a personal, limited, non-exclusive license to use the object code of the software solely for Buyer's internal purposes. The license is limited to such kind of goods as are specified on Buyer's purchase order, quotation or acknowledgement. No other use is permitted.

9.3 Novar retains for itself (or, if applicable, its suppliers) all title and ownership to any software delivered hereunder, all of which contains confidential and proprietary information and which ownership includes, without limitation, all rights in patents, copyrights, trademarks and trade secrets.

9.4 Buyer shall not attempt any transfer without prior written consent of Novar, sublicense or redistribution of the software except as expressly permitted herein. Buyer is entitled to copy the software in as far as necessary for the contractual purpose. Buyer is entitled to make back-up copies in as far as necessary. Furthermore, Buyer shall not disclose, distribute or display any such software, or otherwise make it available to others (except as Novar authorises in writing) or allow any unauthorised use of the software. Buyer is only entitled to reverse compile the software within the scope of § 69e UrhG. Buyer is only entitled to modify, upgrade or alter the software in any other way within the scope of § 69c UrhG (German copyright law).

9.5 Novar may terminate this license if Buyer breaches fundamental provisions under these terms and conditions. If the software is delivered with a good, Buyer may only transfer its license of the software to a third party in conjunction with the sale by Buyer of the good on which the software is installed.

9.6 Customised software will be based on the current version of software, unless agreed otherwise. Customised software is generally excluded from support and updates by Novar unless otherwise agreed in writing by Novar.

10 WARRANTY

10.1 To the extent permitted by law, Novar shall only be liable in accordance with the following warranty conditions, which replace any other warranties or guarantees. Any other claim shall be excluded. In particular (unless otherwise agreed in writing) Novar does not warrant the fitness of the product for any specific use which would not be the use for which the product was designed by its manufacturer.

10.2 Except as otherwise expressly provided herein, Novar warrants goods in all material respects to be free of defective materials and faulty workmanship and as conforming to applicable specifications and/or drawings. Unless otherwise agreed in writing commencing with Novar's date of shipment, the warranty period shall run for 24 months. Warranty for spare parts is limited to 12 months from delivery.

10.3 Non-complying goods returned to Novar in accordance with Section 4 (f) will be repaired or replaced at Novar's option, and return-shipped lowest cost, transportation prepaid. The costs of transportation to Novar have to be borne by Buyer. In the event Novar fails to repair or replace the non-complying good within a reasonable time limit set by Buyer, Novar shall accept the return of such goods and refund the purchase price less 20% annual depreciation from shipment date. The foregoing states Buyer's exclusive remedy in case of defects. Buyer is only entitled to claim damages subject to section 11 (limitation of liability).

10.4 If so requested by Novar, Buyer shall give Novar sufficient opportunity to verify any fault, in particular to provide faulty goods and their packaging to Novar for inspection. If Buyer refuses, Novar shall not be liable for such defects. No goods will be accepted for return without an authorisation number obtained in advance of shipment to Novar.

10.5 Goods subject to wear and tear or burnout through usage shall not be deemed defective because of such wear and tear or burnout. No warranty shall apply if the defect or damage was caused by or related to installation, combination with other parts and/or products, modification to or repair of any goods other than by Novar, or resulted from Buyer's acts, omissions, misuse or negligence.

10.6 Repaired or replaced goods shall be warranted for the remainder of the unused warranty term or for 90 days from shipment, whichever is longer.

10.7 It is Buyer's responsibility to ensure that the goods are fit for the application in which they are used.

10.8 Software, if supplied separately or installed on goods supplied and warranted by Novar, will be furnished on a medium that is free of defect in materials or workmanship under normal use for as long as the hardware and/or system is under warranty. During this period, Buyer has the rights listed in section 10 (c) with regard to any defects of the software. Unless stipulated otherwise in a separate software license agreement, no further warranty is given in respect of software.

10.9 If Novar provides any services to Buyer, including but not limited to training or assistance with configuration and installation of the goods, Novar shall provide such services in accordance with normal industry practice at such rates as may be specified by Novar in its price list. In case of nonconformance which Novar has been notified of correctly and promptly, Novar will repeat services and/or correct accordingly. To the extent permitted by law, Novar accepts no liability to Buyer arising out of the provision of such services.

10.10 Novar does not represent or warrant that the goods may not be compromised or circumvented or that the goods will prevent any personal injury or property loss, burglary, robbery, fire or otherwise, or that the goods will in all cases provide adequate warning or protection. Buyer understands that a properly installed and maintained alarm may only reduce the risk of burglary, robbery, fire or other events occurring without providing an alarm, but it is not an insurance or guarantee that such will not occur or that there will be no personal injury or property loss as a result.

10.11 These warranties are for the benefit of Buyer only and are not assignable or transferable.

11 LIMITATION OF LIABILITY

11.1 Novar is liable for intent and gross negligence on its part, on the part of its legal representatives and vicarious agents. If Novar has not acted intentionally, Novar's liability is restricted to typical, foreseeable damage.

11.2 Novar shall also be liable in the event of negligent injury to life, body and health caused by Novar, its legal representatives or vicarious agents and in the event of wilful failure to disclose a defect. Where a guarantee is provided by Novar, then the extent of Novar's liability is to be determined pursuant to the guarantee declaration.

11.3 Novar shall also be liable for the negligent failure to comply with any of its obligations that are fundamental to the purpose of the agreement. If Novar has not acted intentionally, Novar's liability is restricted to typical, foreseeable damage.

11.4 Additionally Novar shall be liable in cases of mandatory statutory liability, for example pursuant to the Product Liability Act.

11.5 Buyer shall indemnify Novar against any claims, damages, losses, costs and expenses incurred by Novar as a result of either claims made against Novar by third parties arising out of the combination or use of the goods with any incompatible ancillary products that may be connected to the goods, or any other matter for which Novar would not be liable to Buyer under these terms and conditions.

11.6 Other than stated herein, any liability of Novar is excluded, regardless of the theory of liability, whether based in contract, tort, indemnity or otherwise.

11.7 Buyer shall notify and consult with Novar without undue delay and comprehensively if it intends to take legal recourse in accordance with the aforementioned provision. Buyer has to allow Novar to investigate and examine the damages.

12 RECOMMENDATIONS

Any recommendations or assistance provided by Novar concerning the use, design, application or operation of the goods shall not be construed as representations or warranties of any kind, express or implied, and such information is accepted by Buyer at Buyer's own risk and without any obligation or liability to Novar. It is Buyer's sole responsibility to determine the suitability of the goods for use in Buyer's application(s). Other than in cases of statutory obligations the failure by Novar to make recommendations or provide assistance shall not give rise to any liability to Novar.

13 LAWS

13.1 Buyer will comply with all applicable laws, regulations and ordinances of any governmental authority in any country having proper jurisdiction, including, without limitation, those laws of the United States or other countries that regulate the import or export of the goods provided by Novar, and shall obtain all necessary import/export licenses in connection with any subsequent import, export, re-export, transfer and use of all goods, technology and software purchased, licensed and received from Novar. Unless otherwise mutually agreed in writing, Buyer agrees that it will not use or permit third parties to use the goods in connection with any activity involving nuclear fission or fusion, any use or handling of any nuclear material, or any nuclear, chemical or biological weapons.

13.2 Goods and services delivered by Novar hereunder will be produced and supplied in compliance with all applicable laws and regulations in the Federal Republic of Germany. Buyer confirms that it will ensure that all goods are properly installed and used in accordance with the applicable safety at work laws and regulations, and Buyer will indemnify Novar in respect of any costs, claims, actions or liability arising out of that act, or otherwise arising out of the supply by Buyer or use by others of the goods, unless this is not caused by Buyer's failure.

14 PRECLUSION AGAINST SET-OFF

Buyer is only entitled to set off any amount against any amount due or to become due from Novar to Buyer or its affiliates that is undisputed or final and absolute.

15 WEEE

15.1 Prices do not include the costs of recycling goods covered by the European WEEE Directive 2002/96/EC and such costs may be added to the prices quoted.

15.2 Unless a charge has been made as per section 15 (a) above, if the provisions of the WEEE Directive 2002/96/EC as implemented in any local jurisdiction apply to goods, the financing and organisation of the disposal of waste electrical and electronic equipment are, with the exception of goods which are B2C as per Novar catalogue, the responsibility of the Buyer who herewith accepts this responsibility, and Buyer will indemnify Novar in respect of all such liabilities. Buyer will handle the collection, processing and recycling of the goods in accordance with all applicable laws and regulations, and shall pass on this obligation to the final user of the goods. Failure by the Buyer to comply with these obligations may lead to the application of criminal sanctions in accordance with local laws and regulations.

16 APPLICABLE LAW

These terms and conditions are subject to the Laws of the Federal Republic of Germany. These terms and conditions are excluded from the United Nations Convention on Contracts for the International Sale of Goods, 1980, and any successor thereto. The competent court at the seat of Novar will have exclusive jurisdiction to adjudicate any dispute related to these terms and conditions.

17 INDEMNIFICATION

Buyer shall indemnify Novar for all costs and damages, including legal fees, suffered by Novar as a result of Buyer's culpable actual or threatened breach of these terms and conditions.

18 MISCELLANEOUS

18.1 The parties may exchange confidential information during the performance or fulfilment of any supply. All confidential information shall remain the property of the disclosing party and shall be kept confidential by the receiving party for a period of 10 years following the date of disclosure. These obligations shall not apply to information which is:

a) publicly known at the time of disclosure or becomes publicly known through no fault of recipient,

b) known to recipient at the time of disclosure through no wrongful act of recipient,

c) received by recipient from a third party without restrictions similar to those in this section, or

d) independently developed by recipient. Each party shall retain ownership of its confidential information, including without limitation all rights in patents, copyrights, trademarks and trade secrets. A recipient of confidential information may not disclose such confidential information without the prior written consent of the disclosing party, provided that Novar may disclose confidential information to its affiliated companies in the sense of §§15ff AktG (company law), and its and their employees, officers, consultants, agents and contractors.

18.2 These terms and conditions (including those agreed separately in writing) constitute the entire agreement of Novar and Buyer, superseding all prior agreements or understandings, written or oral, and cannot be amended except by a mutually executed writing.

18.3 Buyer may not assign any rights or duties hereunder without Novar's written prior consent. Novar may subcontract its obligations hereunder without Buyer's consent. No representation, warranty, course of dealing or trade usage not contained or expressly set forth herein will be binding on Novar.

18.4 Headings and captions are for convenience of reference only and do not alter the meaning or interpretation of these terms and conditions.

18.5 No failure by Novar to enforce at any time for any period the provisions hereof shall be construed as a waiver of such provision or of the right of Novar to enforce thereafter each and every provision.

18.6 In the event that any provision herein is determined to be illegal, invalid or unenforceable, the validity and enforceability of the remaining provisions shall not be affected and, in lieu of such provision, a provision as similar in terms as may be legal, valid and enforceable shall be added hereto.

18.7 Provisions herein which by their very nature are intended to survive termination, cancellation or completion of supply shall survive such termination, cancellation, or completion.

18.8 All stenographic and clerical errors are subject to correction.

18.9 These terms and conditions shall confer no benefit on any third party.

19 LANGUAGE

The German language version of these terms and conditions will prevail in case of conflict with any translations provided for convenience purposes.

July 2010

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