



Intrusion Detection Technology
Escape Route Technology
Hazard Management Systems

Product Catalogue 2006

Preface

Dear business partner,

In keeping with our tradition of contributing to your commercial success, we are presenting you the new edition of our intrusion detection system catalogue, which, with its clearly organised order information and technical details is designed to make your product selection easy. The overview tables of the revised layout allows you to quickly find the best solution for each application and the special requirements of your customers. The new handling system facilitates the search and gives a better overview. Apart from the standard offer, the current catalogue contains a large number of novelties, which take into account the current market trends.

For example, an important topic is the combination of network and security technology. The new transmission devices DS 7600 and DS 7700 safely transmit hazard messages via ISDN and IP networks. Using the DS7700, the integrated Ethernet interface allows a coded and safe data transmission via the TCP/IP protocol.

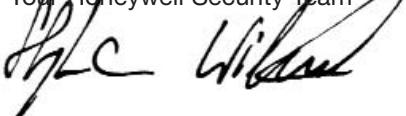


The dual technology is another pioneering trend in intrusion detection technology. As an intrusion detector of the latest generation, the "Viewguard DUAL" combines two detection principles. The combination of infrared and microwaves guarantees high reliability in hazard detection and maximum protection from false alarms. It is an optimum device for sensitive monitoring areas that require high safety standards.

Increased performance is also provided by our intrusion detection central units of the MB series. Here the offer was streamlined and expanded. New products in our portfolio are the MB24 and the MB48 certified by VdS-C. The performance of the intrusion detection central unit MB256 plus for larger objects has been significantly improved by new technology.

We wish you all the best with our catalogue and look forward to good cooperation!

Your Honeywell Security Team

A handwritten signature in black ink, appearing to read "H.C. Winkelmann".

Stephan Winkelmann
Manager Marketing and Communication

Customer Service Centre

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► 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	ZG3.1	= Housing size W 500 x H 300 x D 210 mm
AM	= Anti-Masking	ZG3.2	= Housing size W 500 x H 300 x D 260 mm
BMT	= Fire detection technology	ZG4	= Housing size W 580 x H 640 x D 300 mm
BS	= Block lock	ZG5	= Housing size W 600 x H 630 x D 300 mm
BUS-1	= Bus system 1	ZG6	= Housing size W 600 x H 1035 x D 300 mm
BUS-2	= Bus system 2	ZG7.1	= Housing size W 488 x H 272 x D 155 mm
BWK	= Zone change control	ZG7.2	= Housing size W 488 x H 272 x D 230 mm
DB	= Database	ZG8.1	= Housing size W 488 x H 405 x D 155 mm
DC	= Direct current	ZK	= Access Control
DTMF	= Dual Tone Multiple Frequency	XML	= Extended Markup Language
el.	= electronic		
EMC	= Intrusion detector computer		
EMK	= First alarm detection		
EMT	= Intrusion detection technology		
EMZ	= Intrusion detection central unit		
HE	= Unit/s of height; 1 HE = 44.45 mm		
HF	= High frequency		
HTML	= Hyper Text Markup Language		
IDS	= Intrusion detection system		
IP	= International Protection or Internet Protocol		
ISDN	= Integrated Services Digital Network		
LAN	= Local Area Network		
LCD	= Liquid Cristal Display		
me.	= mechanical		
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	= Escape route technology		
SQL	= Standard Query Language		
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		

► Notes

	= VdS approval (German Insurance Association GmbH)		= Scope of delivery of the article, listing of components delivered, not shown
	= Information, important notes such as special versions, dependencies, etc.		= Delivery period of the article if different from standard delivery period (1 to 7 days)
	= Packaging unit		

► 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 the 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.

► IP type of protection

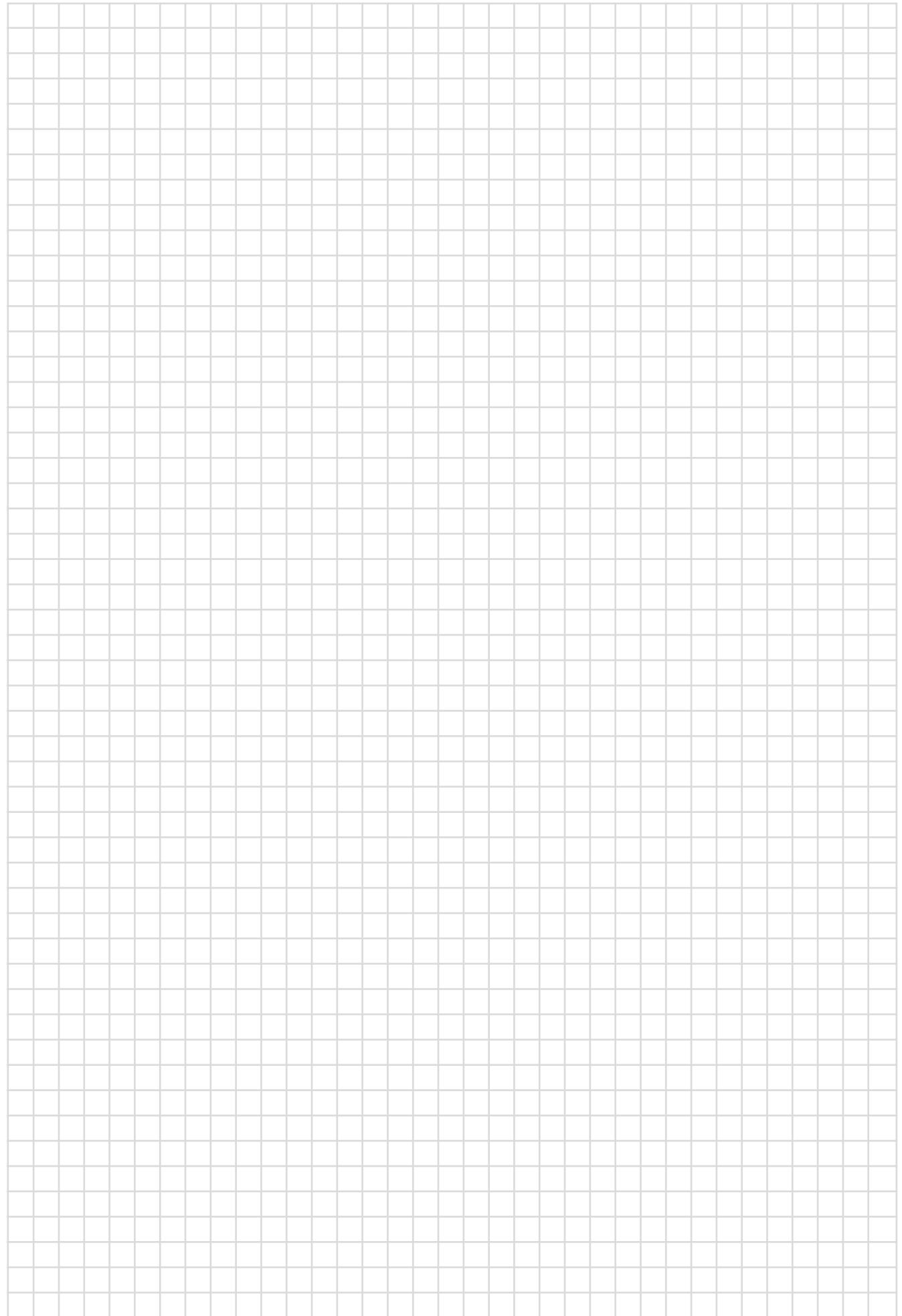
For some components, the IP type of protection is indicated. The IP type of protection depends on the design and construction principle. The following table lists the meaning of the digits.

First digit Protection again solid objects	Second digit Protection against liquids
0 not protected	0 not protected
1 protected again solid objects of more than 50 mm in cross-section e.g. accidental touching with the hand.	1 protected against vertical dripping (water). accidental touching with the hand.
2 protected again solid objects of more than 12mm in cross-section e.g. finger.	2 protected against water drops with an angle of incidence deviating from the vertical by up to 15 degrees.
3 protected again solid objects of more than 2.5mm in cross-section e.g. tools and wires.	3 protected against water drops with an angle of incidence deviating from the vertical by up to 60 degrees.
4 protected again solid objects of more than 1 mm in cross-section e.g. tools, wires and fine wires.	4 protected against splash water on all sides - almost tight.
5 protected against dust - almost tight (in general no impairment)	5 protected against low-pressure water jets from all directions - almost tight.
6 completely dustproof.	6 protected against heavy gushes of water e.g. on ship decks - almost tight.
	7 protected against immersion up to a depth of between 15 cm and 1 m.
	8 protected against longer periods of immersion under pressure (depth).

Example:

International Protection IP64: - completely dustproof and protected from splash water on all sides - nearly tight.





A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Compact central units / Central units 561-MB

GMZ 2001

50-M5

100-A5

100-AB8

561-H8

561-MB24

561-MB48

561-MB100

561-MB256 plus

561-MB8

561-MB16

► GMZ 2001**382001****Hazard alarm computer GMZ 2001**

Universal small central unit containing two detector groups for monitoring intrusion and/or fire detectors. It allows contacts and motion or glass breakage detectors to be connected. Alternatively, up to 30 fire detectors of the 9000 / 76xxxx series or up to 10 fire detectors equipped with switch-on control of the 9000 / 78xxxx series and 10 detectors of the 9100 series can be connected per detector group without addressing using the standard base 781590.

An additional permanently armed, resistance-monitored entrance loop monitors technical alarms, tamper or hold-up detectors or manual call points. Remote arming is possible, for example, via a key-operated switch. A control input allows alarms to be acknowledged or deleted or the central unit to be armed/disarmed.

Performance Features

- Two disconnectable detector groups, either programmable to fire or to intrusion detection as desired
- A detector group for detecting manual call points, tampering, hold-up or technical alarms
- A control input for remote control
- Adjustable switch-on and alarm delay time for intrusion detections
- Adjustable alarm signalling time
- Programming via DIP switch and potentiometer
- Integrated service and maintenance program, for example one-man revision or switch-on control

Technical Data

Mains voltage	230 V AC
Mains frequency	50 to 60 Hz
Nominal current	0.1 A
Operating voltage	12 V DC
Closed-circuit current	Approx. 40 mA
Max. current drain (ext. consumer)	350 mA
Emergency power supply	12 V / 2 Ah
Charging of accumulator	temperature-controlled
Relay	2
Relay contact load	30 V DC / 1A
Transistor outputs	4 (12 V DC / 0.5 A)
Ambient temperature	-5 °C to +45 °C
Storage temperature	-5 °C to +50 °C
Ambient conditions	Class 3k5 according to IEC 721-3-3:1994
Type of protection	IP 40
Housing	ABS - Plastic
Colour	white, similar to RAL 9016
Front colour	grey-blue, similar to RAL 5008
Dimensions (W x H x D)	270 x 221 x 71 mm
Protection class	I according to DIN EN 60950
Weight	approx. 1.5 kg



Holder for 1 accumulator 12 V / 1.9 Ah Art.No. 018002
(not included in the scope of delivery)

Accessories:

all standard articles 12 V DC

382011**Hazard alarm computer GMZ 2001 - English**

As 382001, front plate labelled in English

382201**Hazard alarm computer 2001 - Dutch**

As 382001, front plate labelled in Dutch

50-M5

010145.10



Intrusion detection central unit 50-M5

**Performance Features**

- Programming via DIP switch and potentiometer
- 5 detector groups
- 1 block lock area
- Microprocessor technology
- fully electronic voltage-stabilised and current-limiting power supply/charger unit
- Redundancy standby operation
- Accumulator monitoring
- designed for 7.5 Ah
- complete electronic assembly including relay and connecting points

Compact central unit containing 5 detector groups. 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 central unit key-operated switch or remote operating units.

It allows alarm signalling types, such as acoustic and optic external alarm, internal alarm and illumination alarm, to be incorporated. Moreover, the central unit is equipped with first alarm detection, sabotage individual identification and an option for one-man revision.

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
Accumulator charging voltage	13.8 V DC
Current consumption disarmed state	60 mA
Continuous current drain for external consumers	350 mA
max. accumulator 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	IP 30
Environmental class according to VdS	II
Relay contact rating	30 V DC / 0.8 A
Max. accumulator box	1 accumulator 7.5 Ah
Dimensions (W x H x D)	300 x 186 x 125 mm

 Motherboard 010145.01; display pcb 010145.02; housing

Accessories:

012624	Operating unit insert for EMZ 50-M5/100-A5/100-A8/561-H8 (excluding basic housing/excluding half cylinder)
012600	Surface-mounted basic housing
012601	Flush-mounted basic housing
012415	Flush-mounted housing for 012601
028032	Half cylinder
048720	VdS compact alarm device

100-A5

010146



Intrusion detection central unit 100-A5

**G193721 (EMT), Class A**

Compact central unit designed for 5 detector groups. The central unit allows 2 tamper alarm groups to be programmed. In addition, the detector groups 1 and 2 can be blocked individually.

The available alarm signalling types are optic and acoustic external alarm, silent alarm via AWAG or AWUG, internal alarm and illumination alarm. Moreover, the central unit is equipped with first alarm detection, sabotage individual identification and an option for one-man revision.

Performance Features

- Programming via DIP switch and potentiometer
- 5 detector groups
- 1 block lock area
- 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
- complete electronic assembly including relay and connecting 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
Accumulator charging voltage	13.8 V DC
Current consumption disarmed state	60 mA
Continuous current drain for external consumers	350 mA
max. accumulator 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	IP 30
Environmental class according to VdS	II
Contact rating relay 2	250 V AC / 5 A
Contact rating relay 3	30 V DC / 0.8 A
max. accumulator box	1 accumulator 7.5 Ah
Dimensions (W x H x D)	300 x 186 x 125 mm



Motherboard 010146.01; display pcb 010146.02; housing

Accessories:

012624	Operating unit insert for EMZ 50-M5/100-A5/100-A8/561-H8 (excluding basic housing/excluding half cylinder)
012600	Surface-mounted basic housing
012601	Flush-mounted basic housing
012415	Flush-mounted housing for 012601
028032	Half cylinder
048720	VdS compact alarm device

System 100-AB

010910.10



Intrusion detection central unit 100-AB8 plus



Performance Features

- 8 detector groups or 6 detector groups and one block lock
- 2 independent main zones can be programmed Possible combinations: 1 main zone; 1 main zone and 1 secondary zone; 2 main zones
- Each detector group is freely programmable as: intrusion detector group, tamper alarm group, hold-up alarm group, fire detector group, all doors/windows are closed detector group, technical monitoring group
- Each detector group can be blocked for arming during presence.
- Individual programming options for the semiconductor outputs
- Arming/disarming via operating unit, block lock or security operating panel
- Programming and Operation: via operating unit; via PC/laptop on-site, in connection with WINFEM
- Up to 4 operating units can be connected (3-wire bus technology)
- Practice-oriented standard programming

**Approval****G196720 (EMT), Class A**

The intrusion detection central unit 100-AB8 plus has been designed for use in the private and small scale industry sectors and is highly suitable for setting up small- to medium-size security systems.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Frequency	50 Hz
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Current consumption disarmed state	90 mA
Current drain (ext. consumer)	350 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
max. accumulator box	1 accumulator 7.5 Ah
Dimensions (W x H x D)	357 x 288 x 98 mm
Colour	grey-white, similar to RAL 9002



Computer/connection pcb 010910.01 with electronic, voltage-stabilised power supply/charger unit, plastic housing

Accessories:

010920.10	Compact operating unit
010930.10	LCD operating unit with disabling unit
013552	PC software WINFEM-AB
013466	PC adapter cable with 3-pin plug connector (Windows 98SE)
013467	USB adapter box (Windows 2000/NT, ME, XP)

010912.10



Intrusion detection central unit 100-AB8 plus/AWUG

**Performance Features**

- 8 detector groups or 6 detector groups and one block lock
 - 2 independent main zones can be programmed Possible combinations: 1 main zone; 1 main zone and 1 secondary zone; 2 main zones
 - Each detector group is freely programmable as: intrusion detector group, tamper alarm group, hold-up alarm group, fire detector group, all doors/windows are closed detector group, technical monitoring group
 - Each detector group can be blocked for arming during presence.
 - Individual programming options for the semiconductor outputs
 - Arming/disarming via operating unit, block lock or security operating panel
 - Programming and Operation: via operating unit; via PC/laptop on-site, in connection with WINFEM
 - Up to 4 operating units can be connected (3-wire bus technology)
 - Practice-oriented standard programming
 - Transmission device with modem function integrated (AWUG)
 - capable of extension (not according to VdS)
 - Remote control and programming possible via PC/laptop*
 - Routine call possible*
(at 24-hour intervals)
- * WINFEM-AB 013552 required



Approval

G196721 (EMT), Class A

Central unit with integrated dialling device (AWUG) with modem function.

Technical Data

Rated connection voltage	230 V
Connection voltage range	230 V AC / -15% to +10%
Frequency	50 Hz
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Current consumption disarmed state	90 mA, excluding AWUG
Current consumption disarmed state	105 mA, including AWUG
Current drain (ext. consumer)	350 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS max. accumulator box	II
Release criteria	1 accumulator 7.5 Ah Hold-up, fire alarm, main alarm, technical alarm, sabotage, malfunction according to CCITT V21
Transmission method	10 bits/s semi-duplex
Transmission speed	4 call numbers maximum of 15 digits each
Call number memory	12 per user
Dialling attempts	Pulse dialling (IWF), multi-frequency dialling (DTMF)
Dialling method	357 x 288 x 98 mm
Dimensions (W x H x D)	grey-white, similar to RAL 9002
Colour	



Computer/connection pcb 010912.01 with electronic, voltage-stabilised power supply/charger unit; AWUG/modem; plastic housing

Accessories:

010920.10	Compact operating unit
010930.10	LCD operating unit with disabling unit
013552	PC software WINFEM-AB
013466	PC adapter cable with 3-pin plug connector (Windows 98SE)
013467	USB adapter box (Windows 2000/NT, ME, XP)

010914



Intrusion detection central unit 100-AB8 plus/AWUG (ISDN/analog)

**G102706 (EMT), Class A****G102806 (EMT), transmission device**

Central unit with integrated ISDN dialling device for connecting to TELIM-compatible control centres.

Technical Data

Rated connection voltage	230 V DC
Connection voltage range	230 V DC / -15% to +10%
Frequency	50 Hz
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Current consumption disarmed state	95 mA, excluding AWUG
Current consumption disarmed state	135 mA, including AWUG
Current drain (ext. consumer)	350 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS max. accumulator box	II
Connection type	1 accumulator 7.5 Ah
D channel protocol	Point-to-point, point-to-multipoint
Call number memory	E-DSS 1 (Euro ISDN)
Receiver type	8 call numbers maximum of 15 digits each HDL transparent, X.75, cityruf (tone), Telim-compatible receiving terminal station
Dimensions (W x H x D)	357 x 288 x 98 mm
Colour	grey-white, similar to RAL 9002



Computer/connection pcb 010914.01 with electronic, voltage-stabilised power supply/charger unit; AWUG/modem; DS 8500R ISDN-analog 010914.03; plastic housing

Accessories:

010920.10	Compact operating unit
010930.10	LCD operating unit with disabling unit
013552	PC software WINFEM-AB
013466	PC adapter cable with 3-pin plug connector (Windows 98SE)
013467	USB adapter box (Windows 2000/NT, ME, XP)

Performance Features

- 8 detector groups or 6 detector groups and one block lock
- 2 independent main zones can be programmed Possible combinations: 1 main zone; 1 main zone and 1 secondary zone; 2 main zones
- Each detector group is freely programmable as: intrusion detector group, tamper alarm group, hold-up alarm group, fire detector group, all doors/windows are closed detector group, technical monitoring group
- Each detector group can be blocked for arming during presence.
- Individual programming options for the semiconductor outputs
- Arming/disarming via operating unit, block lock or security operating panel
- Programming and Operation: via operating unit; via PC/laptop on-site, in connection with WINFEM
- Up to 4 operating units can be connected (3-wire bus technology)
- Practice-oriented standard programming
- Transmission device with modem function integrated (AWUG)
- Disconnection according to protocol, approved by the Federal Office for Telecommunication Certification for outgoing and incoming sabotage or blocking calls
- Disconnection in case of S0 bus sabotage/defect
- permanent function control
- Remote programming, remote control and remote monitoring of the intrusion detection unit via WINFEM-AB possible
- incl. ISDN connecting cable
- Telim-compatible

010916



Intrusion detection central unit 100-AB8 plus/ISDN-ISDN



**G102706 (EMT), Class A
G102806 (EMT), transmission device**

Central unit with integrated ISDN dialling device for connecting to digital control centres via compatible protocols.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC / -15% to +10%
Frequency	50 Hz
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Current consumption disarmed state	95 mA, excluding AWUG
Current consumption disarmed state	135 mA, including AWUG
Current drain (ext. consumer)	350 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS max. accumulator box	II
Connection type	1 accumulator 7.5 Ah
D channel protocol	Point-to-multipoint, point-to-point
Call number memory	E-DSS 1 (Euro ISDN)
Receiver type	8 call numbers maximum of 15 digits each
Dimensions (W x H x D)	HDLC transparent, X.75, cityruf (tone)
Colour	357 x 288 x 98 mm
	grey-white, similar to RAL 9002



Computer/connection pcb 010914.01 with electronic, voltage-stabilised power supply/charger unit; AWUG/modem; DS 8500R ISDN-ISDN 010914.02; plastic housing

Accessories:

010920.10	Compact operating unit
010930.10	LCD operating unit with disabling unit
013552	PC software WINFEM-AB
013466	PC adapter cable with 3-pin plug connector (Windows 98SE)
013467	USB adapter box (Windows 2000/NT, ME, XP)

Performance Features

- 8 detector groups or 6 detector groups and one block lock
- 2 independent main zones can be programmed Possible combinations: 1 main zone; 1 main zone and 1 secondary zone; 2 main zones
- Each detector group is freely programmable as: intrusion detector group, tamper alarm group, hold-up alarm group, fire detector group, all doors/windows are closed detector group, technical monitoring group
- Each detector group can be blocked for arming during presence.
- Individual programming options for the semiconductor outputs
- Arming/disarming via operating unit, block lock or security operating panel
- Programming and Operation: via operating unit; via PC/laptop on-site, in connection with WINFEM
- Up to 4 operating units can be connected (3-wire bus technology)
- Practice-oriented standard programming
- Transmission device with modem function integrated (AWUG)
- Disconnection according to protocol, approved by the Federal Office for Telecommunication Certification for outgoing and incoming sabotage or blocking calls
- Disconnection in case of S0 bus sabotage/defect
- permanent function control
- Remote programming, remote control and remote monitoring of the intrusion detection unit via WINFEM-AB possible
- incl. ISDN connecting cable

System 561-H

011900



Intrusion detection central unit 561-H8



G195505 (EMT), Class B

Central unit 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 central unit key-operated switch or operating units.

The available alarm signalling types are optic and acoustic external alarm, silent alarm via AWAG or AWUG, internal alarm and illumination alarm. Moreover, the central unit is equipped with first alarm detection, sabotage individual identification and an option for one-man revision.

Performance Features

- Programming via DIP switch 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
- complete electronic assembly including relay and connecting 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
Accumulator charging voltage	13.8 V DC
Current consumption disarmed state	60 mA
Continuous current drain for external consumers	800 mA
max. accumulator 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	IP 30
Environmental class according to VdS	II
Contact rating relay 2	250 V AC / 5 A
Contact rating relay 3	30 V DC / 0.8 A
Contact rating relay 4	30 V DC / 0.8 A
max. accumulator box	2 accumulator 7.5 Ah
Dimensions (W x H x D)	350 x 300 x 152 mm



Motherboard 011900.01; display pcb 010142.02; housing

Accessories:

012624	Operating unit insert for intrusion detection central unit 50-M5 / 100-A5 / 100-A8 / 561-H8 (excluding basic housing/excluding half cylinder)
012600	Surface-mounted basic housing
012601	Flush-mounted basic housing
012415	Flush-mounted housing for 012601
028032	Half cylinder
057700	Motherboard DS 8800-AWUG
057630	Motherboard DS 7500 ISDN
057640	Motherboard DS 7500 ISDN/analog

 List of main functions of central units

The intrusion detection central units 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 central unit, for creating medium- to large-sized security systems.

The central units 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.

Central unit main functions			
	Only for information	Only for information	
Article No.	561-MB8 (page 43)	561-MB16 (page 45)	561-MB24 (page 22)
VdS class intrusion detection system	Class C	Class C	Class C
VdS approval no.	G195044	G195045	G103013
VdS class access control system	Class A	Class A	Class C
VdS approval no.	Z199700	Z199701	Z105003
Detector groups	8	16	24
Main zones	1	2	2
Switching devices	16	16	8
Programmable analog inputs	8	16	8
Operating codes	20	20	16
IK data carrier codes	20	20	32
BUS-1 users	63	63	63
BUS-2 users	64	64	64
Extensions			
BUS-1 modules	–	–	–
BUS-2 modules	–	1	–
IGIS-LOOP	–	1 ²	–
Transmission devices	2	2	2
BUS-2 operating units	24	24	16
5-output modules	12	12	10
Operation features			
Texts for detector groups	8 x 30 characters	16 x 30 characters	24 x 40 characters
Texts for zones	16 x 30 characters	16 x 30 characters	8 x 40 characters
Texts for inputs	255 x 16 characters	255 x 16 characters	255 x 40 characters
Texts for IK data carriers	20 x 16 characters	20 x 16 characters	32 x 40 characters
Time zones	16	16	32
Weekly patterns	5	5	20
Special patterns	50	50	50
Links	10	10	10
Linked components	99	99	99
Macros	20	20	20
Event memory	100	100	22.000
Telephone numbers	8	8	8
Dialling sequences	4	4	4
Routine call	1	1	1
Connections			
Conventional block lock	1	2	1
Acoustic alarm device	2	2	2
Optic alarm device	1	1	1
Printer connection	–, with WINFEM	–, with WINFEM	–, with WINFEM
Programmed outputs +12 V DC	4	10	10
Programmed outputs 0 V	2	4	6
Relay 250 V AC /5 A	1	2	1
Relay 24 V DC /1 A	2	2	1

The figures given refer to complete extensions and can differ, if several options are combined.

Legend: ¹ = not for 19" version ² = Compatibility mode

 List of main functions of central units

For the central units 561-MB24, 561-MB48 and 561-MB100, there is also available an approval of VdS risk class C for access control systems.
The programming of the central units is done conveniently via a

PC/laptop using the corresponding WINFEM software. Remote programming or remote control is also possible via WINFEM. Alternatively, there is also the option of programming via an operating unit.



Central unit main functions	561-MB48 (page 24)	561-MB100 (page 26)	561-MB256 plus (page 33)
Article No.	012911	013201.10, 013202.10 013203.10, 013204.10 013208.10, 013209.10	013222.10, 013223.10 013224.10, 013225.10 013228.10, 013229.10
VdS class intrusion detection system	Class C	Class C ¹	Class C applied for ¹
VdS approval no.	G105094	G1930401	G106037
VdS class access control system	Class C	Class C ¹	Class C ¹
VdS approval no.	Z105011	Z105002	
Detector groups	48	512	2048
Main zones	4	16	250
Switching devices	16	64	250
Programmable analog inputs	8, max. 24	8, max. 56	4, max. 1028
Operating codes	32	128	750
IK data carrier codes	128	512	1000
BUS-1 users	63, max. 127	63, max. 567	63, max. 2583
BUS-2 users	64, max. 128	64, max. 512	64, max. 704
Extensions			
BUS-1 modules	1	8	10
BUS-2 modules	1	7	10
IGIS-LOOP	1	1	32
Transmission devices	2	2	32
BUS-2 operating units	16	64	50
5-output modules	10	64	704
Operation features			
Texts for detector groups	48 x 40 characters	512 x 40 characters	2048 x 40 characters
Texts for zones	16 x 40 characters	64 x 40 characters	250 x 40 characters
Texts for inputs	255 x 40 characters	1000 x 40 characters	5000 x 40 characters
Texts for IK data carriers	128 x 40 characters	512 x 40 characters	1000 x 40 characters
Time zones	32	32	100
Weekly patterns	20	20	100
Special patterns	50	50	20 per time zone
Links	10	50	4.000
Linked components	99	500	4.000
Macros	20	100	250
Event memory	22.000	22.000	4.000
Telephone numbers	8	8	8 per transmission device
Dialling sequences	4	4	4 per transmission device
Routine call	1	1	1 per transmission device
Connections			
Conventional block lock	1, max. 3	1, max. 3	-, max. 250
Acoustic alarm device	2	2	2, max. 66
Optic alarm device	1	1	1, max. 33
Printer connection	1	1	2
Programmed outputs +12 V DC	10, max. 20	10, max. 20	8, max. 1032
Programmed outputs 0 V	6, max. 12	6, max. 12	-, max. 1024
Relay 250 V AC / 5 A	1	1	-, max. 128
Relay 24 V DC / 1 A	1	1	4, max. 132

The figures given refer to complete extensions and can differ, if several options are combined.

Legend: ¹ = not for 19" version

² = Compatibility mode

561-MB24**Performance Features**

- in its basic configuration, 63 BUS-1 users and 64 BUS-2 users can be connected
- up to 2 main zones are possible
- up to 7 secondary zones can be defined
- 8 texts for zones of 40 characters each
- 1 to 16 detector groups (freely programmable)
- 8 conventional detector groups
- Sensitivity of the detector groups is programmable
- automatic adjustment of the detector groups
- 24 detector group texts of 40 characters each
- freely programmable inputs and outputs
- 255 input texts of 40 characters each
- 1 to 8 external switching devices
- 1 to 16 intelligent operating units on BUS-2
- simple operating units on BUS-1
- 16 operating codes
- 32 IDENT-KEY data carriers possible
- 32 texts for IDENT-KEY of 40 characters each
- Event memory for 22,000 entries
- selective standard programming possible
- integrated electronics for siren actuation
- 32 time zones programmable
- 10 connections programmable
- 20 macros for special functions
- Approval for Austria (VSÖ class WS)

The 561-MB24 intrusion detection central unit has been designed for use in the private and small scale industry sectors and corresponds to VdS class C, VDE 0833 and in Austria to VSÖ class WS.

The control of the central unit takes place via a microprocessor of cyclic function monitoring. Many functions of the central unit are freely programmable via the plain text operating unit. Programming can be done comprehensively and comfortably via a PC in connection with the software package WINFEM Advanced.

The central unit 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

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 15V DC
Accumulator charging voltage	13.8 V DC
Current consumption at rated voltage	100 mA disarmed group connections open, 1 mA per group connection (with 12.1kOhm terminal resistor), 18 mA relay small, 45 mA relay large
Max. accumulator charging current	800 mA
Max. accumulator box	2 x 7.5 Ah or 1 x 17 Ah
Continuous current drain	1.2 A max. (without ext. signalling device)
Current drain	2.0 A max. 3 minutes (incl. ext. signalling device)
Environmental class according to VdS	II
Type of protection DIN 40050	IP 30
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
013466	PC adapter cable (for Windows 98SE only)
013467	USB adapter box
018004	Accumulator 12 V / at least 6.5 Ah, connection 4.8 mm plug
012540	2 x 40-digit LCD operating unit, including flap
012541	2 x 40-digit LCD operating unit, excluding flap
012532	8-detector group compact operating unit with disabling unit, surface-mounted
012542	16-detector group disable and display module, surface-mounted
012544	16-detector group operating unit (10 detector groups can be disabled), surface-mounted
012546	Mounting/dismounting set, flush-mounted, for article nos. 012532 / 012540 / 012541 / 012542 / 012544 / 012548
012548	16-detector group display module, surface-mounted
012570	Graphic operating unit including 1/4 VGA display
012575	Comfort Touch Colour operating unit
010935	Compact operating unit for HB/MB24 central units
011895	Motherboard DS 8600, VdS 2465 + SMS + modem
011896	Motherboard DS 8600, VdS 2465 + Telim + SMS + modem

012830

**Intrusion detection central unit 561-MB24****VdS Approval****G103013 (EMT), Class C; Z105003 (Access Control), Class C**

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



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

012831

**Intrusion detection central unit 561-MB24, "Bundle with LCD BT"****VdS Approval****G103013 (EMT), Class C; Z105003 (Access Control) Class C**

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



Computer/connection pcb 011890.01 with integrated power supply/charger unit; metal housing; 2 x 40-digit LCD operating unit 012540

012832

**Intrusion detection central unit 561-MB24, "Bundle with LED BT"****VdS Approval****Z105003 (Access Control) Class C**

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



Computer/connection pcb 011890.01 with integrated power supply/charger unit; metal housing; 10-detector group operating unit 012544

► **Digital transmission**

011895

**ISDN transmission device DS 8600-ISDN****VdS Approval****G102807 (EMT), transmission device**

Integration module for intrusion detection central units 561-HB24 and 561-MB24, according to VdS 2465 incl. SMS (in selected networks) and modem function. The ISDN transmission device DS 8600-ISDN is used for transmitting hazard reports, emergency calls and technical faults over the public digital telecommunication network (ISDN) to a rescue service (security service). The connection can take place to an ISDN-capable receiving terminal station (e.g. DEZ 9000), e*cityruf (tone-only, numeric, alphanumeric) receiver or GSM mobile phone (via SMS).

Technical Data

Current consumption

45 mA

011896

**ISDN transmission device DS 8600-ISDN, Telim****VdS Approval****G102807 (EMT), transmission device**

Same as article 011895, with added Telim compatibility.

Technical Data

Current consumption

45 mA

561-MB48**Performance Features**

- in its standard configuration, 63 BUS-1 users and 64 BUS-2 users can be connected
- Modular extension possible
- up to 4 main zones are possible
- up to 15 secondary zones can be defined
- 1 to 48 detector groups (freely programmable)
- automatic adjustment of the detector groups
- 48 detector group texts
- Sensitivity of the detector groups is programmable
- freely programmable inputs and outputs
- 255 input texts
- 1 to 16 external switching devices
- 1 to 16 intelligent operating units on BUS-2
- 32 operating codes
- 128 IDENT-KEY data carriers
- 22,000 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 detector groups inputs / of which 4 include an extinguishing device
- 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 WINFEM
- 1 BUS-2 connection for internal AWUG/modem
- 10 active semiconductor outputs 12 V DC
- 6 active semiconductor outputs 0 V
- 1 relay 230 V AC / 5 A
- 1 relay 12 V AC / 1 A
- 1 connecting plug for extension modules
- Parallel printer connection
- Connections for 2 acoustic signalling devices and 1 optic signalling device
- IGIS can be integrated

The intrusion detection central unit 561-MB48 complies with the latest guidelines of the VdS risk class C for intrusion detection access control systems and with the VDE regulations 0833. Many functions of the central unit are freely programmable via the plain text operating unit. Programming can be done comprehensively and comfortably via a PC in connection with the software package WINFEM Advanced. 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 incl. max. 15 secondary zones, 2 main zones incl. max. 14 secondary zones, 3 main zones incl. max. of 13 secondary zones, 4 main zones incl. a max. 12 secondary zones.

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
Accumulator charging voltage	13.8 V DC
Current consumption at rated voltage	100 mA disarmed group connections open, 1 mA group connection with 12.1 kOhm terminal 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 DIN 40050	IP 30
Colour of housing	grey-white, similar to RAL 9002
Colour of front	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
013100.12	Connecting cable 250 mm
013100.08	Relay extension module
070478	Group relay card
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
050019	Distributor block
028050	VdS housing lock
057870	Motherboard DS 6500-AWUG
057875	Motherboard DS 8500 ISDN
057876	Motherboard DS 8500 ISDN/analog
057650	Motherboard DS 7600 ISDN
057651	Motherboard DS 7700 ISDN/IP
057920	Motherboard DGA 2400
013220.14	Connection pcb for table-top printers
012540	2 x 40-digit LCD operating unit, surface-mounted, including flap
012541	2 x 40-digit LCD operating unit, surface-mounted, excluding flap
012532	8-detector group compact operating unit with disabling unit, surface-mounted
012542	16-detector group disable and display module, surface-mounted
012544	10-detector group operating unit with disabling unit, surface-mounted
012546	mounting/dismounting set, flush-mounted, for article nos. 012532 / 012540 / 012541 / 012542 / 012544 / 012548
012548	16-detector group display module, surface-mounted
012570	Graphic operating unit including 1/4 VGA display
012575	Comfort Touch Colour operating unit
010935	Compact operating unit for central unit HB48/MB48
013498	PC parameterization software WINFEM Advanced
013595	WINFEM - User
026809	Serial programming cable
013466	PC adapter cable with 3-pin plug connector (for Windows 98 only)
013467	USB adapter box

012911



Intrusion detection central unit 561-MB48 in ZG 3.1



VdS Approval

G105094 (EMT), Class C; Z105011 (Access Control), Class C

Technical Data

Dimensions (W x H x D)

500 x 300 x 210 mm

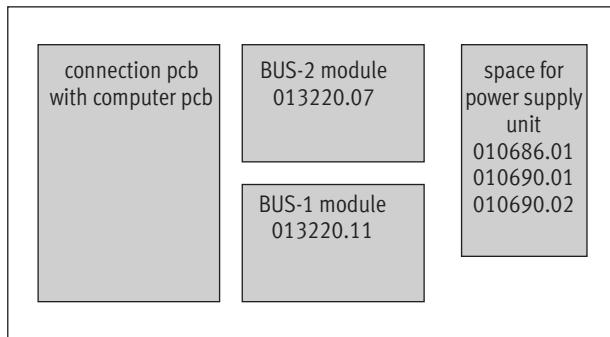
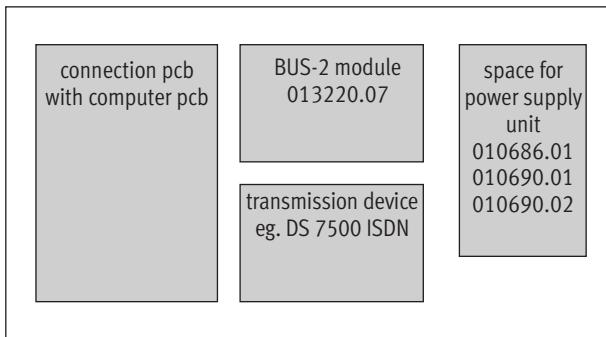
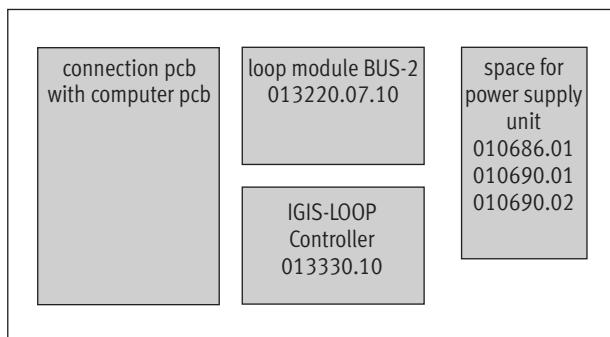


Max. accumulator box 2 x 17 Ah; room for 2 options; room for power supply unit



Computer pcb 011910.10.01; connection pcb 011910.02; housing ZG 3.1

► Extension examples intrusion detection central unit 561-MB48

315 BUS-1 members
128 BUS-2 members63 BUS-1 members
128 BUS-2 members
transmission device63 BUS-1 members
128 BUS-2 members (64 of them are members of the loop operation)
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
- Number identification for operating and programming functions
- up to a maximum of 56 detector groups in conventional connection technology or a maximum of 512 detector groups containing BUS-1 and BUS-2 users
- automatic adjustment of the detector groups
- freely programmable inputs and outputs
- Allocation of several group inputs to a detector group
- Standard programming for certain program parts possible
- Sensitivity of the detector groups is programmable
- automatic maintenance interval display
- Event memory for 22,000 entries
- 512 IDENT-KEY data carriers possible
- Transmission devices can be integrated

The intrusion detection central unit 561-MB100 complies with the latest guidelines of the VdS risk class C and with the VDE regulations 0833 Part 1 and Part 3.

The corresponding modules allow a total of 512 detector groups to be obtained, allowing up to 56 conventional detector group inputs. Of these, several detector group inputs and/or BUS users can be allocated to a detector group. The individual detector groups can be connected by logical operations on the basis of 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 over a maximum of 64 zones.

The programming of the central unit can be done comfortably 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.

The central unit has an event memory for 22,000 events. The event memory can be displayed via LCD operating units and via WINFEM Advanced. 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, higher-voltage power supplies and relay additional boards.

Since the 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 central unit.

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
Accumulator charging voltage	13.8 V DC
Current consumption at rated voltage	100 mA disarmed group connections open, 1 mA group connection with 12.1 kOhm terminal resistor, 5 mA per LED display, 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 DIN 40050	IP 30
Housing dimensions (W x H x D)	500 x 300 x 210 mm, type ZG 3.1
Housing dimensions (W x H x D)	580 x 640 x 300 mm, type ZG 4
Colour of housing	grey-white, similar to RAL 9002
Colour of front	signal-grey, similar to RAL 7004

 Accessories

	Conventional configuration		VdS kit for commercial use
013100.05	2 BSA / 10-detector group input module	028050	VdS housing lock
013100.04	16-detector group input module type A		
013320.03	16-detector group input module type B		
	Housing		RDT/transmission devices
050055	19" housing ZG 4	057870	Motherboard DS 6500
050056	19" housing ZG 5	057630	Motherboard DS 7500 ISDN
050057	19" housing ZG 6	057640	Motherboard DS 7500 ISDN/analog
013106	Mounting plate for connection pcb and options in 19" housings	057650	Motherboard DS 7600 ISDN
013118	19" dummy plate 6 HE, signal-grey	057651	Motherboard DS 7700 ISDN/IP
013119	19" dummy plate 3 HE, signal-grey	057875	Motherboard DS 8500 ISDN
		057876	Motherboard DS 8500 ISDN/analog
		057920	Motherboard DGA 2400
	Relay extension		BUS-2 operating units
013100.08	Relay extension module	012540	2 x 40-digit LCD operating unit, including flap
070478	Group relay card	012541	2 x 40-digit LCD operating unit, excluding flap
		012532	8-detector group compact operating unit with disabling unit
	Printer accessories		16-detector group disable and display module
013220.14	Connection pcb for table-top printers	012542	10-detector group operating unit with disabling unit
013900	40-digit alphanumeric heat transfer printer, motorised paper take-up reel	012544	16-detector group display module
		012548	Flush-mounted mounting kit for 012540, 012541, 012532, 012542, 012544, 012548
	BUS-1 extension to 567 users		Graphic operating unit including 1/4 VGA display
013220.11	BUS-1 module for a maximum of 252 users	012570	Comfort Touch Colour operating unit
		012575	
	BUS-2 extension to 512 users		WINFEM central unit programming
013220.07	BUS-2 module for 64 users	013498	PC parameterization software WINFEM Advanced
		026809	Serial programming cable
	BUS-2 loop extension		PC adapter cable with 3-pin plug connector
013220.07.10	BUS-2 loop module for 64 users	013466	(Windows 98SE only)
		013467	USB adapter box
	IGIS extension		
013330	IGIS-LOOP Controller		
013335	LED panel selection module for IGIS-LOOP Controller		
013336	Ethernet connection module, Adapter pcb for IGIS-LOOP Controller to include another Ethernet interface		
	Connecting cable		
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 1,000 mm		
013100.14	Connecting cable 650 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		

013201.10



Intrusion detection central unit 561-MB100 in housing ZG 3.1



VdS Approval

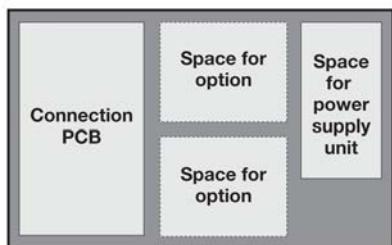
G193040 (EMT), Class C; Z105002 (Access Control), Class C



Room for 2 options; room for power supply unit; max. accumulator box 2 x 17 Ah



Computer pcb 013200.10.01; connection pcb 011910.02; housing ZG 3.1



013202.10



Intrusion detection central unit 561-MB100 in ZG 3.1, incl. printer



VdS Approval

G193040 (EMT), Class C; Z105002 (Access Control), Class C



Room for 2 options; room for power supply unit; max. accumulator box 2 x 10 Ah



Computer pcb 013200.10.01; connection pcb 011910.02; heat transfer printer 013900; housing ZG 3.1

013203.10



Intrusion detection central unit 561-MB100 in housing ZG 4



VdS Approval

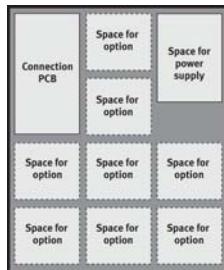
G193040 (EMT), Class C; Z105002 (Access Control), Class C



Room for 8 options; room for power supply unit; max. accumulator box 2 x 65 Ah



Computer pcb 013200.10.01; connection pcb 011910.02; lower dummy plate, 6 HE; housing ZG 4



013204.10



Intrusion detection central unit 561-MB100 in housing ZG 4, incl. printer



Approval G193040 (EMT), Class C; Z105002 (Access Control), Class C



Room for 8 options; room for power supply unit; max. accumulator box 2 x 65 Ah



Computer pcb 013200.10.01; connection pcb 011910.02; heat transfer printer 013900; lower dummy plate, 6 HE; housing ZG 4

013208.10



Intrusion detection central unit 561-MB100, 19", incl. operating unit



Computer pcb 013200.10.01; connection pcb 011910.02; operating unit

013209.10



Intrusion detection central unit 561-MB100, 19", incl. operating unit and printer



Computer pcb 013200.10.01; connection pcb 011910.02; operating unit; heat transfer printer 013900

013106



Rear wall mounting plate for 19" rear wall mounting

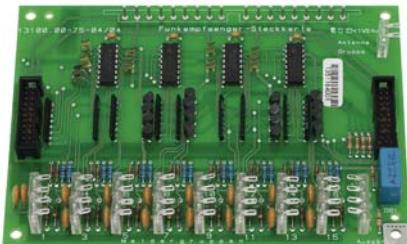


 Modules

A modular extension has the advantage that the security system can be optimally adapted to the object circumstances. This also facilitates a later system extension. For the system 561-MB100, various modules are available, which are listed below.

The rear walls of the individual housing types have been designed to allow their modular extension without any problems. The modules have identical dimensions, thus ensuring compatibility. The arrangement of the modules within the housing can be done individually.

013100.04

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

Each group extension board contains 16 group inputs with a protective circuit, 12 of which are provided with quenching 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 of any contacts for control purposes.

Also available are 1 slot for a radio alarm board for releasing any detector group and 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.

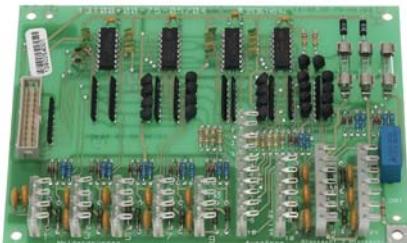
Also available are 16 programmable semiconductor outputs active 12 V DC / 50 mA.

Technical Data

Current consumption

approx. 1 mA per terminated detector group

013100.05

**2 BSA / 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 16 programmed semiconductor outputs:

10 active 12 V DC/50 mA semiconductor outputs

6 active semiconductor outputs 0 V

Technical Data

Current consumption

3 mA per connected block lock

Current consumption

1 mA per terminated detector group

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 (art. 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 produced. The module is connected via the I-BUS in the housing of the central unit. 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=12V DC	65 mA in standby operation (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
Board dimensions (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.

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
---------------------	-------

 List of mounting components for 561-MB100

		561-MB100 in ZG 3.1	561-MB100 in ZG 4	561-MB100 19"
Article No.	Designation	013201.10 013202.10	013203.10 013204.10	013208.10 013209.10
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	-	*	*
011910.02	Connection pcb 8 detector group inputs	S	S	S/R
013100.04	Group extension 16 detector group inputs type A	*	*	*/R
013320.03	Group extension 16 detector group inputs type B	*	*	*/R
013100.05	Zone extension 2 block lock connections / 10 detector group inputs	*	*	*/R
013330.10	IGIS-LOOP Controller	*	*	*/R
013100.08	Relay extension	*	*	*/R
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	*	*	*
013106	Rear wall mounting plate for 19"	-	-	*
013118	19" dummy plate 6 HE, signal-grey	-	S	*
013119	19" dummy plate 3 HE, signal-grey	-	*	*
013900	Heat transfer printer, 40-digit	S at 013202.10	S at 013204.10	S at 013209.10
013220.07	BUS-2 module	*	*	*/R
013220.07.10	BUS-2 loop module	*	*	*/R
013220.11	BUS-1 module	*	*	*/R
013220.14	Connection pcb for table-top printer	*	*	*/R
050019	16-pin distributor block	*	*	*/R
057700	Motherboard DS 8800-AWUG	*	*	*/R
057870	Motherboard DS 6500	*	*	*/R
057630	Motherboard DS 7500 ISDN	*	*	*/R
057640	Motherboard DS 7500 ISDN / analog	*	*	*/R
057875	Motherboard DS 8500 ISDN	*	*	*/R
057876	Motherboard DS 8500 ISDN / analog	*	*	*/R
057920	Motherboard DGA 2400	*	*	*/R
057650	Motherboard DS 7600 ISDN	*	*	*/R
057651	Motherboard DS 7700 ISDN / IP	*	*	*/R

Legend:

* = possible component

S = integrated standard feature

R = in combination with rear wall mounting plate 013106



Intrusion detection central unit 561-MB256 plus

Performance Features

- up to 2048 detector groups can be defined, of which up to 1028 conventional detector groups
- up to 250 main zones can be defined
- up to 2583 BUS-1 users can be connected
- up to 704 BUS-2 users can be connected, of which a maximum of 50 operating units
- suitable for police emergency calls
- 19" upgraded configuration and add-on operating unit
- depending on design, available with LCD operating unit and printer
- Programming via USB in connection with PC/laptop and software package WINFEM Advanced
- Simple firmware update by flash EPROM
- Operator guidance through 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 4000 entries
- Alarm memory - 20 events per main zone
- Technical alarm and fire alarm memory available
- 1000 IDENT-KEY data carrier codes can be managed; up to 250 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 detection central unit 562-MB256 plus has been designed for use in large-sized complex solutions, owing to their wide range of extension options. It meets the latest guidelines of the VdS risk class C and the regulations according to VDE 0833. In its basic model, 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

The corresponding extension modules allow a total of 2048 detector groups to be obtained. A full extension using 32 I/O modules give 1028 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 2583 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 a detector group. This makes it possible to establish logical relationships of the individual detector groups to the object-specific circumstances without any problems.

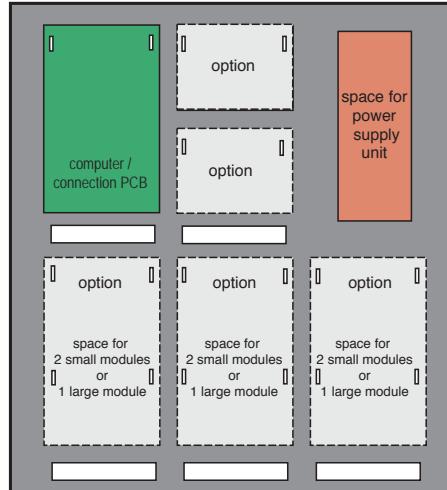
The mechanical assembly of the central units is done in the standard housing ZG 4, where the extension modules are mounted to the rear wall of the housing and connected to one another via flat-band cables. Apart from central units in the ZG4 housing, central units in 19" design are available, each with 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 central unit is done comfortably 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 VAC / 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 DIN 40 050	IP 30
Operating temperature range	-10 °C to +50 °C
Housing dimensions (W x H x D) 19" model	580 x 640 x 300 mm, type ZG 4 488 x 272 x 110 mm (incl. printer)
Colour of housing	grey-white, similar to RAL 9002
Colour of front	signal-grey, similar to RAL 7004

561-MB256 plus in ZG 4



 Accessories
Housing

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

BUS-1 user

010109.10	1-detector group module
010110.10	2-detector group module
010118	2-detector group module; flush-mounted model
010111	Universal connection module; surface-mounted model
010112	Universal connection module; flush-mounted model
010116	Active distributor module
010125	BUS-1 operating unit key-operated switch
015128	Radio receiver module
022310.10	Door module 1
022320.10	Door module 2
031540	Hold-up pushbutton module
032211	IDENTLOC evaluating unit
032420	DETEKT 1000
033370/71/72	PIR detector SCM 2000
033401/04/07	PIR detector SCM 3000
041150.10	Switching module 24 V DC / 1 A
041151.10	Switching module 250 V AC / 5 A
042235	Indoor blinking light
043050	Indoor siren module
043060	Piezo indoor siren
062085	Fire detector base module

RDT/transmission devices

057870	Motherboard DS 6500
057875	Motherboard DS 8500 ISDN
057876	Motherboard DS 8500 ISDN/analog
057630	Motherboard DS 7500 ISDN
057640	Motherboard DS 7500 ISDN/analog
057650	Motherboard DS 7600 ISDN
057651	Motherboard DS 7700 ISDN/IP
057920	Motherboard DGA 2400

BUS-2 user

013130.10	5-input module
013131.10	5-output module
022160.20	IDENT-KEY IK2 evaluating unit
023312.10	IDENT-KEY IK3 evaluating unit
033402/05/08	PIR motion detector SCM 3000 with AM
033442	Viewguard DUAL AM BUS-2
033443	Viewguard DUAL BUS-2

WINFEM central unit programming

013466	adapter cable with 3-pin plug connector (Windows 98SE only)
013498	Parameterisation software WINFEM Advanced
013595	WINFEM - User

BUS-2 operating units

012540	2 x 40-digit LCD operating unit, including flap
012541	2 x 40-digit LCD operating unit, excluding flap
012544	10-detector group operating unit with disabling unit
012542	16-detector group disable and display module
012548	16-detector group display module
012546	Flush-mounted mounting kit for 012540, 012541, 012532, 012542, 012544, 012548
013140	64-detector group display terminal

Connecting cable

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 1,000 mm
013100.14	Connecting cable 650 mm

013222.10



Intrusion detection central unit 561-MB256 plus in housing ZG 4



Approval

applied for



Room for 8 options; room for power supply/charger unit; max. accumulator box 2 x 65 Ah



Computer/connection pcb; housing ZG 4; front plate 6 HE; dummy plate 6 HE

013223.10



Intrusion detection central unit 561-MB256 plus in housing ZG 4, incl. printer



Approval

applied for



Room for 8 options; room for power supply/charger unit; max. accumulator box 2 x 65 Ah



Computer/connection pcb; heat transfer printer 013900; housing ZG 4; front plate 6 HE; dummy plate

013224.10



Intrusion detection central unit 561-MB256 plus 19" model



Computer/connection pcb; front plate 6 HE

013225.10



Intrusion detection central unit 561-MB256 plus 19" model, incl. printer



Computer/connection pcb; heat transfer printer 013900; front plate 6 HE

013228.10



Intrusion detection central unit 561-MB256 plus 19" model, incl. operating unit



Computer/connection pcb; operating unit 012541; front plate 6 HE

013229.10



Intrusion detection central unit 561-MB256 plus 19" model, incl. operating unit incl. printer



Computer/connection pcb; operating unit 012541; heat transfer printer 013900:
front plate 6 HE

► Modules

A modular extension has the advantage that the security system can be optimally adapted to the object circumstances. This also facilitates a later system extension. For the system 561-MB256, various modules are available, which are listed below.

The rear walls of the individual housing types have been designed to allow their modular extension without any problems. The modules have identical dimensions, thus ensuring compatibility. 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 output and one continuous alarm output can be used for relay selection or as semiconductor outputs.

Technical Data

Current consumption (without plug-in cards)	15 mA
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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 deletion of detector groups via programming plugs.

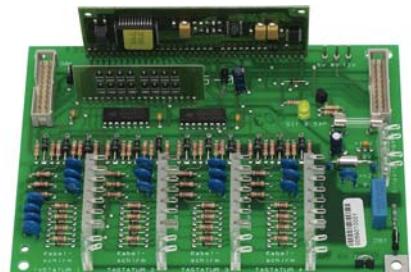
Technical Data

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

013220.06



Keyboard module



Allows 4 code keypad units to be connected via a matrix connection.

Technical Data

Current consumption	15 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 auxiliary 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 distribution of the 12 V DC operating voltage to the modules.

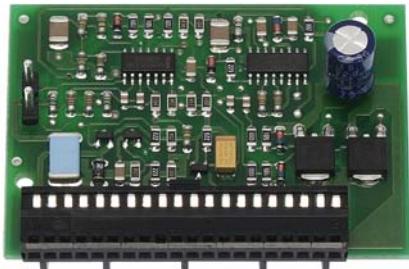
Also available are 8 pin pairs for free switching.

Technical Data

Current consumption

10 mA

012690.03

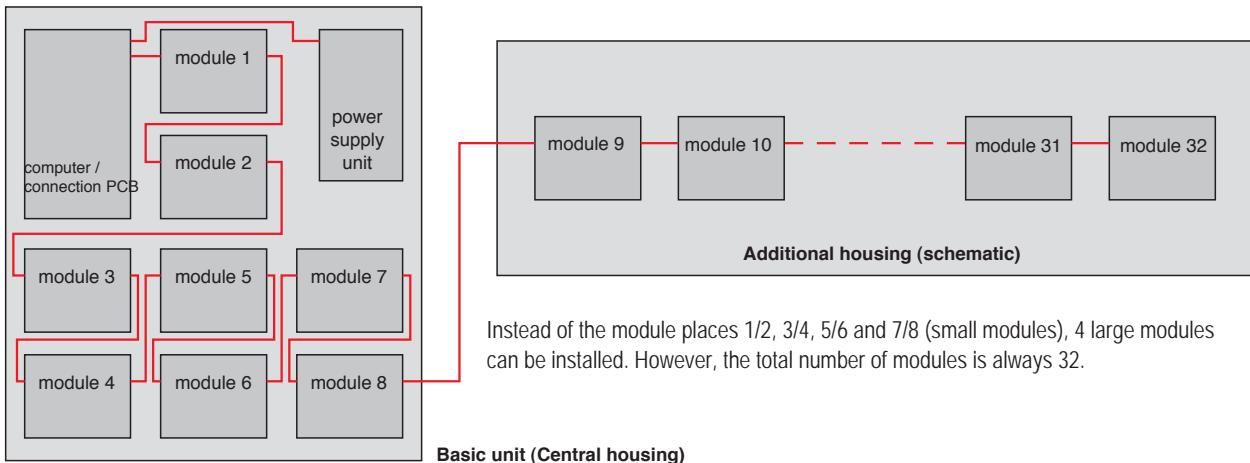
**Siren plug-in card for 2 DKL**

Plug-in card for operating a maximum of 2 acoustic alarm signalling devices (DKL).

► Extention 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.



Instead of the module places 1/2, 3/4, 5/6 and 7/8 (small modules), 4 large modules can be installed. However, the total number of modules is always 32.

In this example, the basic unit is the IACP 561-M256 plus in CH 4. It consists of the computer / connection PCB, and a 580 x 640 x 300 mm housing. The power supply unit is not part of scope of delivery.

The modules can be installed in our additional housings or in commercially available 19" cabinets. The following tables provide an overview of how many users can be connected with different numbers of modules.

BUS-1 configuration

In this example, apart from the computer / connection PCB only BUS-1 modules (modules 1 to 10) are used.

The number of BUS-1 users which can be connected depends on how many modules are used and what energy supply/ies are installed. The max. number of BUS -1 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 users	315	567	819	1071	1323	1575	1827	2079	2331	2583
Number of BUS-2 users*	64									

BUS-2 configuration

In this example, apart from the computer / connection PCB only BUS-2 modules (Modules 1 to 10) are used. The number of BUS-2 users which can be connected depends on how many

modules are used and what energy supply/ies are installed. 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 users*	128	192	256	320	384	448	512	576	640	704



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

► Extention examples 561-MB256 plus

Conventional configuration

In this example, apart from the computer / connection PCB only I/O basic modules (Modules 1 to 10) are used. The number of conv. users which can be connected depends on how many modules are used and what energy 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 can be also connected at these inputs.

	1	2	3	4	5	3 0	3 1	3 2
Number of I/O basic modules	3 6	6 8	1 0 0	1 3 2	1 6 4	9 6 4	9 9 6	1 0 2 8
Max. number of conventional inputs						6 3			
Number of BUS-2 users*						6 4			



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



The number and type of detector groups is set during programming. At this, one or more inputs can be assigned to one detector group.

Combined configuration

In this example, apart from the connection module various modules are used. The number of conventional components or BUS-1 or BUS-2 users

which can be connected depends on how many and which modules are used and what energy supply/ies are installed.

Example:

Type of module	Connection module	I/O basic module	BUS-1	BUS-2	Keypad module	computer / connection PCB
Number of modules	1	3	2	3	1	1
Number of users or inputs/outputs that can be connected	2 PCL 1 flashing lamp	96	504	192*	4	2 PCL 1 flashing lamp 4 inputs 63 BUS-1 users 64* BUS-2 users
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.

 List of mounting components for 561-MB256 plus

		561-MB256 plus in ZG 4	561-MB256 plus 19"
Article No.	Designation	013222.10 013223.10	013224.10/225.10 013228.10/229.10
010686.01	Power supply unit 12 V DC / 17 Ah	*	*/R
010690.01	Power supply unit 12 V DC / 32 Ah	*	*/R
010690.02	Power supply unit 12 V DC / 40 Ah	*	*/R
012168	Power supply unit 12 V DC / 80 Ah	*	*/R
012170	Power supply unit 12 V DC / 130 Ah	*	*/R
013220.04	Connection module	*	*/R
013220.05	I/O basic module	*	*/R
013220.06	Keyboard module	*	*/R
013220.11	BUS-1 module	*	*/R
013220.07	BUS-2 module	*	*/R
013330.10	IGIS-LOOP Controller	*	*
013100.08	Relay extension module	*	*/R
070478	Group relay card	*	T
013220.13	Adapter for auxiliary power supply	*	*/R
013220.14	Connection pcb for table-top printer	*	*/R
012690.03	Siren plug-in card	*	*/E
057870	Motherboard DS 6500	*	*
057700	Motherboard DS 8800-AWUG	*	*/R
057920	Motherboard DGA 2400	*	*/R
057630	Motherboard DS 7500 ISDN	*	*/R
057640	Motherboard DS 7500 ISDN / analog	*	*/R
057875	Motherboard DS 8500 ISDN	*	*/R
057876	Motherboard DS 8500 ISDN / analog	*	*/R
057650	Motherboard DS 7600 ISDN	*/K	*/R/K
057651	Motherboard DS 7700 ISDN / IP	*/K	*/R/K
050019	16-pin distributor block	*	*
013106	19" rear wall mounting plate	-	*
013118	19" dummy plate 6 HE, signal-grey	S	*
013119	19" dummy plate 3 HE, signal-grey	*	*
013900	Heat transfer printer, 40-digit	S at 013223.10	S at 013225.10 S at 013229.10
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 R = in combination with 013106 K = Compatibility mode 057500 ISDN
 S = integrated standard feature T = in combination with 013100.08 E = in combination with 013220.04



Accessories

013900



Alphanumeric heat transfer printer



40-digit heat transfer printer 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 central unit 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, on average while printing
Environmental class according to VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-20 °C to +70 °C
Weight	approx. 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 HE; mounting material; connecting cable

013901



Paper roll for 40-digit heat transfer printer

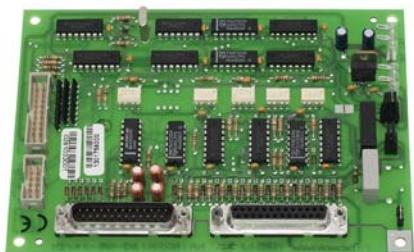


5 units

013220.14



Connection pcb for table-top printers



Technical Data

Current consumption	160 mA (serial + parallel), 110 mA (parallel), 80 mA (serial), 10 mA (standby)
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Not suitable for connecting a serial printer to the 561-MB256 plus.

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 1,000 mm**

013100.14  **Connecting cable 650 mm**



List of BUS users

1

2

3

4

5

6

7

8

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12

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15

16

17

18

19

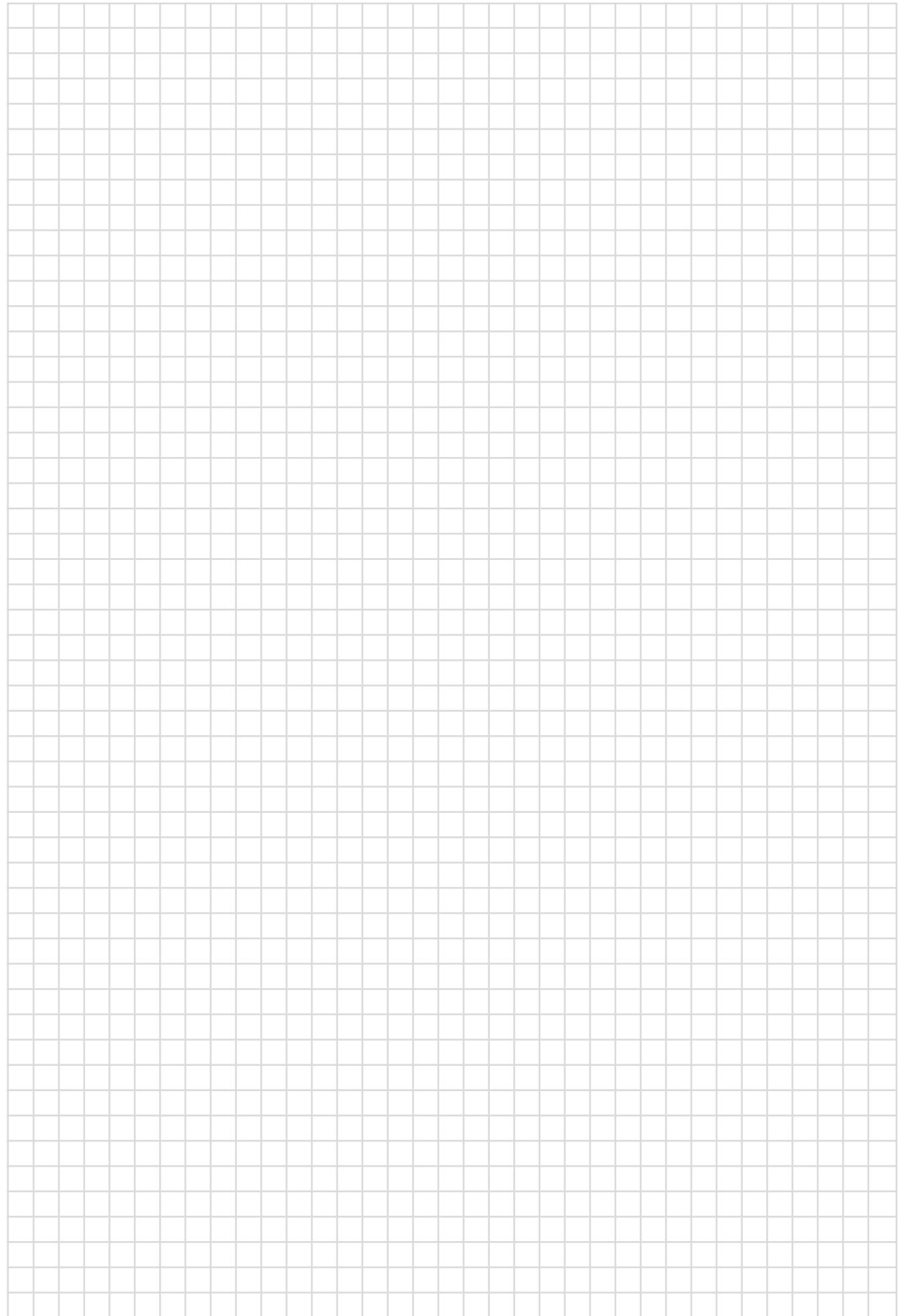
20

	Article No.	Designation	Dimensions W x H x D	I_R (typ.)	Required address space
	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 -
	032211	IDENTLOC evaluating unit per sensor per LED	118 x 118 x 31	9 mA 5.5 mA 3 mA	- 1 or 5 -
	010116	Active distributor module	85 x 109 x 30	2.5 mA	- 1 -
	010109.10	1-detector group module	85 x 109 x 30	4 mA	- 1 -
	010110.10	2-detector group module	85 x 109 x 30	5 mA	- 2 -
	010118	2 detector group module, flush-mounted version	Ø 54 x 32	5 mA	- 2 -
	041150.10	Switching module 24 V DC/1 A	85 x 109 x 30	0.5 mA	- 1 -
	041151.10	Switching module 250 V AC/5 A	85 x 109 x 30	0.5 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 -
	022310.10	Door module 1 (block lock conventional connection)	118 x 118 x 31	15 mA incl. block lock	- 3 -
	022320.10	Door module 2 (block lock BUS connection)	118 x 118 x 31	15 mA incl. block lock	- 3 -
	031540	Hold-up button module	79 x 115 x 50	0.5 mA	- 1 -
	062085	Smoke detector module	Ø 101.5 x 23.5	3 mA	- 1 -
	015128	Radio receiver module	118 x 118 x 31 ²⁾	17 mA	- 4 -
	042235	Interior blinking light	85 x 87 x 34	8.5 mA	- 1 -
	043050	Indoor siren ¹⁾	79 x 115 x 50	0.5 mA	- 1 -
	043060	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 -
	013128	Isolation module	85 x 109 x 30	3 mA	- 1 -
	013130.10	5-input module	118 x 118 x 31	6 mA	- 1 -
	013131.10	5-output module	118 x 118 x 31	3 mA	- 1 -
	013133	Mini module	40 x 18 x 13	1 mA	- 1 -
	013140	64-detector group display terminal	270 x 190 x 125	60 mA	- 1 -
	013220.07.10	Loop module	158 x 112 x 16	65 mA	- 1 -
	033402/05/08	PIR detector SCM 3000 BUS-2/monitoring against covering	57 x 138 x 49	4 mA	- 1 -
	033442	Viewguard DUAL AM BUS-2	64 x 158 x 48	4.6 mA	- 1 -
	033443	Viewguard DUAL BUS-2	64 x 158 x 48	4.6 mA	- 1 -
BUS-2	022160.20	IDENT-KEY IK2 evaluating unit	118 x 118 x 31	50 mA	- 1 -
	023312.10	IDENT-KEY IK3 evaluating unit	118 x 118 x 31	15 mA	- 1 -
	010935	Compact operating unit	100 x 192 x 34	25 mA	- 1 -
	012540	2 x 40-digit LCD operating unit	196 x 142 x 42	60 mA	- 1 -
	012141	2 x 40-digit LCD operating unit	196 x 142 x 42	60 mA	- 1 -
	012544	10-detector group operating unit with disabling function	196 x 142 x 42	25 mA	- 1 -
	012532	8-detector group operating unit with disabling function	196 x 142 x 42	25 mA	- 1 -
	012542	16-detector group disabling and display module	196 x 142 x 42	25 mA	- 1 -
	012548	16-detector group display module	196 x 142 x 42	25 mA	- 1 -
	012575	Comfort Touch Colour operating unit	207 x 152 x 84	170 / 390 mA ³⁾	- 1 -
	012570	Operating and display panel with 1/4 VGA display	210 x 170 x 55	75 mA	- 1 -

Legend:

¹⁾ = in surface-mounted single housing³⁾ = without / with display illumination²⁾ = without antenna





A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Display and operating units

BUS-2 operating units for HB/MB series

The prerequisites of developing remote control and information systems for the intrusion detection central units of the HB and MB series were high quality requirements for operation and a modern design.

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 central units is effected via the BUS-2 interface. In connection with the flush-mounting kit, a flush mounting can be carried out.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40050	IP 40
Environmental class according to VdS	II
Colour	grey-white, similar to RAL 9002

 The modules 012542 and 012548 can only be operated in connection with an LCD operating unit 012540/41 or operating unit with disabling unit 012532/012544.

012540



2 x 40-digit LCD operating unit



VdS Approval

G194120 (EMT), Class C

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 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	60 mA, when idle
Current consumption	95 mA, with illuminated display
Current consumption	5 mA, per LED
Dimensions (W x H x D)	196 x 142 x 42 mm

012540.G0



2 x 40-digit LCD operating unit, English version

012540.I0



2 x 40-digit LCD operating unit, Italian version

012540.NL



2 x 40-digit LCD operating unit, Dutch version

012540.F0



2 x 40-digit LCD operating unit, French version

012540.T0



2 x 40-digit LCD operating unit, Czech version

012540.W0



2 x 40-digit LCD operating unit, Hungarian version

012540.P1



2 x 40-digit LCD operating unit, Polish version

012540.U0



2 x 40-digit LCD operating unit Russian / Cyrillic

012541



2 x 40-digit LCD operating unit

**VdS Approval****G194120 (EMT), Class C**

Same as 012540, but without flap, flat housing.

Technical Data

Current consumption	60 mA, when idle
Current consumption	95 mA, with illuminated display
Current consumption	5 mA, per LED
Dimensions (W x H x D)	196 x 142 x 37 mm

012541.G0



2 x 40-digit LCD operating unit, English version

012550



3-wire flat-band cable

Operating unit/central unit connecting cable, 3 m, including plug.
For programming of central units via 012540 / 012541.

012542



16-detector group disable and display module

**VdS Approval****G194121 (EMT), Class C**

The module enables simple operation of up to 16 detector groups. For each detector group, a display LED for the "Alarm" and "Disabled" states and a locking key are available. Rapid identification of an alarm site is achieved by plain text labelling fields for each detector group.

Technical Data

Current consumption	25 mA, when idle
Current consumption	5 mA, per LED
Dimensions (W x H x D)	196 x 142 x 32 mm



In connection with 012540/012541 or 012532/012544 only.

012548



16-detector group display module

**VdS Approval****G198047 (EMT), Class C**

For each detector group, one display LED each for the "Alarm" and "Disabled" states and a plain text labelling field are available.

Technical Data

Current consumption	25 mA, when idle
Current consumption	5 mA, per LED
Dimensions (W x H x D)	196 x 142 x 32 mm



In connection with 012540/012541 or 012532/012544 only.

012544



10-detector group operating unit with disabling function

**VdS Approval****G194122 (EMT), Class C**

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); displays for detector groups 1 -10 "disabled"; displays for detector groups 1 -16 "Alarm"; displays for operation, disarmed, internally armed, enable, fault and alarm; integrated buzzer.

Technical Data

Current consumption

25 mA, when idle

Current consumption

5 mA, per LED

Dimensions (W x H x D)

196 x 142 x 32 mm

012532



8-detector group compact operating unit with disabling function

**VdS Approval****G194123 (EMT), Class C**

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"; displays for detector groups 1 -8 "Alarm"; displays for operation, disarmed, internally armed, enable, fault and alarm; integrated buzzer.

Technical Data

Current consumption

25 mA, when idle

Current consumption

5 mA, per LED

Dimensions (W x H x D)

196 x 142 x 32 mm

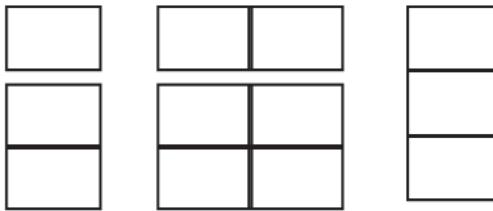
012546



Mounting and dismounting kit for flush-mounting



The surface-mounted components can be reconverted for flush mounting by means of the flush-mounted housing and the flush-mounted cover frame. Any combinations are possible.



Example of possible flush-mounted arrangements

013140

**64-detector group BUS-2 display terminal**

The 64-detector group display terminal provides the option of a remote status display of up to 64 detector groups. For each detector group, the Alarm (red LED) and Detector group disabled (yellow LED) states can be displayed.

They are activated via BUS-2.

The display terminal can be connected to all current central units of the HB and MB series.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 25 V DC
Current consumption in no-load operation	60 mA at 12 V DC
Current consumption each additional LED	5 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 DIN 40 050	IP 40
Dimensions (W x H x D)	270 x 237 x 125 mm
Colour	grey-white, similar to RAL 9002

Accessories:

018001 12 V DC / 1.1 Ah accumulator, for emergency power supply

012570

**1/4 VGA graphic operating unit**

The 1/4 VGA graphic operating unit makes it easy to use the intrusion detection central units HB/MB24, HB/MB48 and MB100. Any system information is displayed clearly and comprehensively.

The operating and display panel is programmed using the central unit parameterisation software WINFEM Advanced.

It is connected via BUS-2.

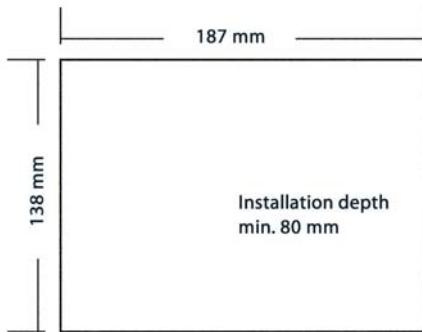
Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V	75 mA (when idle), 305 mA (with illuminated display)
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 DIN 40050	IP 40
Dimensions (W x H x D)	210 x 170 x 55 mm
Colour	grey-white, similar to RAL 9002

012575



Comfort Touch Colour operating and display panel



To be able to mount the Comfort Touch Colour by means of the mounting frame, an installation opening of suitable size must be provided. The installation depth must be sufficient.

The Comfort Touch Colour is a high-quality and innovative operating and display panel for the intrusion detection central units HB/MB24, HB/MB48 and MB100. The system is operated with dialog guidance and intuitively via a touch-sensitive colour screen (touchscreen). Any system information is displayed clearly and comprehensively.

The operating and display panel is programmed using the central unit parameterisation software WINFEM Advanced.

It is connected via BUS-2.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 24 V DC
Current consumption at rated voltage	170 mA (when idle), 390 mA (with illuminated display)
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-5 °C to +45 °C
Environmental class according to VdS	II
Type of protection DIN 40050	IP 40
Dimensions (W x H x D)	202 x 152 x 84 mm (incl. mounting frame)
Colour	Membrane colour: grey, similar to RAL 7035

Information for project planning:

The power supply of the Comfort Touch Colour must come from an external power supply. The power supply must not come from the BUS-2!

Mounting frame for hollow-wall or flush-mounting.

010935



Compact operating unit for intrusion detection central units HB/MB24 and HB/MB48



Approval

G198053 (EMT), Class C

The operating unit allows you to carry out all operating procedures, such as internal and/or external arming/disarming, disabling detector groups or clearing alarms. The available LED displays include those for the criteria operation, disarmed, internally armed, operation enable, and collective alarm. Operation and display are possible with or without code input.

Technical Data

Current consumption	25 mA, disarmed
Current consumption	30 mA, with buzzer
Dimensions (W x H x D)	100 x 192 x 34 mm

A maximum of 4 operating units can be connected

System 100-AB

The compact operating units are used for the central units of the AB and HB series as operating and display element. Their connection to the central units is effected by easy-to-install 3-wire technology.

When not in use, the operating panel is covered by a flap.

010930.10



LCD compact operating unit for the intrusion detection central unit series 100-AB8



Approval

G199086 (EMT), Class C

The comfortable LCD operating unit is used for the central units of the AB series. Its connection to the central units is effected by easy-to-install 3-wire technology. Apart from 3 LEDs for status display, operation, alarm and fault, it features a 2 x 16-digit, luminous background LC display of high operating and display comfort, incl. plain text display. The operating unit allows you to carry out all operating procedures, such as internal and/or external arming/disarming, disabling detector groups, clearing alarms, triggering hold-up alarm and programming the central unit.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption in no-load operation	60 mA
Current consumption per LED	8 mA,
	135 mA with luminous background
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40 050	IP 40
Environmental class according to VdS	II
Dimensions (W x H x D)	190 x 129 x 44 mm
Colour	grey-white, similar to RAL 9002

A maximum of 4 operating units can be connected

010920.10



Compact operating unit for the intrusion detection central unit series 100-AB8

Approval

G196061 (EMT), Class C

The operating unit allows you to carry out all operating procedures, such as internal and/or external arming/disarming, disabling detector groups or clearing alarms. Likewise, this operating unit allows a large portion of the central unit programming to be carried out. The available LED displays include those for the criteria operation, disarmed, accumulator fault, zone 1 alarm, zone 2 alarm, hold-up alarm, sabotage alarm, fault, internally armed, fire alarm and telephone line. Operation and display is possible with or without code input.



Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	25 mA, disarmed
Current consumption	30 mA, with buzzer
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40050	IP 40
Environmental class according to VdS	II
Dimensions (W x H x D)	100 x 192 x 34 mm
Colour	grey-white, similar to RAL 9002

A maximum of 4 operating units can be connected

 Modular operating unit and display program
Performance Features

- Universal applicability
- Uses "ON/OFF" key-operated switch
- Half cylinder with keybit position 90° right can be used
- Integrated buzzer
- LED displays for fault, disarmed and detector groups
- Protection of the cover (incl. additions for locking and module fastening).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption per LED	8 mA
Buzzer current consumption	15 mA
Type of protection DIN 40050	IP 40 (built-in)
Environmental class according to VdS	I
Colour	grey-white, similar to RAL 9002

 Basic housing and half cylinder not included in delivery

Accessories:

- | | |
|--------|--|
| 012468 | Empty paper sheets for labelling by user, 5 per packaging unit |
| 028032 | Half cylinder |

012624



Operating unit insert for intrusion detection central unit 50-M5/100-A5/561-H8


 Approval
G187056 (EMT), Class C

For 8 detector groups and additional display for: disarmed, internally armed, fault, alarm, sabotage, hold-up, lock status group, detector groups 1 and 2 disabled.

 If locking cylinders from other manufacturers are used, their length A should be at least 30 mm. Keybit position 90° right is required.

012649



LED display module including labelling field for 5 detector groups


 Approval
G187056 (EMT), Class C

Red LED displays and labelling with customer-specific texts on paper sheets (black print on white background).

Technical Data

Current consumption per illuminated display field 10 mA

043050



Module for indoor siren, BUS-1


 Approval
G194037 (EMT), 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
Closed-circuit current	500 µA
active at 60 dBA	4 mA
active at 95 dBA	80 mA
Volume	60 to 95 dB(A)
Dimensions (W x H x D)	79 x 115 x 50 mm (with housing 012600)
Colour	grey-white, similar to RAL 9002

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 (W x H x D)

79 x 115 x 50 mm

Dimensions (W x H) frame

109 x 145 mm

012602

**Surface-mounted basic housing for 2 modules****Technical Data**

Dimensions (W x H x D)

150 x 115 x 50 mm

012603

**Flush-mounted basic housing version 1 for 2 modules****Technical Data**

Dimensions (W x H x D)

150 x 115 x 50 mm

Dimensions (W x H) frame

180 x 145 mm

012612

**Dummy module for basic housing**

012415**Flush-mounted housing for 012601****Technical Data**

Material	1 mm thick galvanised sheet steel
Dimensions (W x H x D)	96 x 123 x 78 mm

012416**Flush-mounted housing for 012603****Technical Data**

Material	1 mm thick galvanised sheet steel
Dimensions (W x H x D)	186 x 123 x 78 mm



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 units/chargers are distinguished in particular by their permanent accumulator monitoring, voltage stabilisation and current limitation.

The accumulators used in 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.

057530.10

**Power supply/charger unit 230 V AC / 12 V DC / 7.2 Ah**
 **Approval**
G190702 (EMT), Class A

Fully electronic, voltage-stabilised and current-limited power supply unit/charger 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
Max. charging current	0.13 A
Max. continuous current	0.5 A
Temporary continuous current drain (5 min.)	0.8 A
Accumulator capacity approved by VdS	Max. 7.2 Ah, max. 1 accumulator connectable
Power consumption	22 VA
Dimensions (L x W)	140 x 60 mm

010686.01

**Power supply/charger unit 230 V AC / 12 V DC / 17 Ah**
 **Approval**
G183012 (EMT), Class C

Fully electronic, voltage-stabilised and current-limited power supply unit/charger 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
Max. charging current	0.7 A
Max. continuous current	1.4 A
Temporary continuous current drain (5 min.)	2.4 A
Accumulator capacity approved by VdS	max. 17 Ah, max. 2 accumulators connectable
Power consumption	36 VA
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 (EMT), Class C

Fully electronic, voltage-stabilised and current-limited power supply unit/charger 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
Max. charging current	1.1 A
Max. continuous current	2 A
Temporary continuous current drain (5 min.)	2.5 A
Accumulator capacity approved by VdS	32 Ah, max. 2 accumulators connectable
Power consumption	75 VA
Dimensions (L x W)	250 x 97.5 mm

010690.02



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



VdS Approval

G297021 (BMT), G197099 (EMT), Class C and EN 54-4

Fully electronic, voltage-stabilised and current-limited power supply unit/charger for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of 40 Ah. According to EN 54-4 equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for trouble location.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
Max. charging current	1.5 A
Max. continuous current	1.5 A
Temporary continuous current drain (5 min.)	2.2 A
Accumulator capacity approved by VdS	40 Ah, max. 2 accumulators connectable
Power consumption	100 VA
Board dimensions (L x W)	250 x 97.5 mm

Accessories:

010693 NTC temperature sensor

012168



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

VdS Approval

G199022 (EMT), Class C
G299028 (BMT) and EN 54-4

Fully electronic, voltage-stabilised and current-limited power supply unit/charger 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. According to EN 54-4 equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for trouble location.

Technical Data

Rated connection voltage	230 V AC
Mains voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
Max. 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
Temporary continuous current drain (5 min.)	5 A
Accumulator capacity approved by VdS	80 Ah, max. 2 accumulators connectable
Power consumption	170 VA
Dimensions (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



VdS Approval

G100030 (EMT), Class C and EN 54-4

Fully electronic, voltage-stabilised and current-limited power supply unit/charger for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 130 Ah. According to EN 54, Part 4, equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for trouble location.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
Max. charging current	5.7 A
Max. continuous current	5 A
Temporary continuous current drain (5 min.)	7 A
Accumulator capacity approved by VdS	max. 130 Ah, max. 2 accumulators connectable
Power consumption	170 VA
Dimensions (W x H x D)	102 x 252 x 80 mm

Accessories:

- 012171 ZG 4 housing for power supply
010693 NTC temperature sensor

012171



ZG 4 housing for power supply 012170



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

Technical Data

Max. accumulator box	2 x 65 Ah accumulators
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

Housing versions

012135



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

VdS Approval

G190702 (EMT), Class A

Same as power supply/charger unit 12 V DC / 7.2 Ah (057530.10), but inside housing.

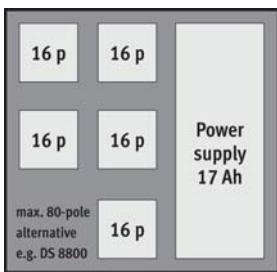
Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Nominal frequency	50 to 60 Hz
Max. charging current	0.13 A
Max. continuous current	0.5 A
Temporary continuous current drain (5 min.)	0.8 A
Accumulator capacity approved by VdS	max. 7.2 Ah, 1 accumulator connectable
Power consumption	22 VA
Accumulator support	1 x 7.2 Ah
Environmental class according to VdS	II
Housing	Type ZG 1, 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, error signal fault transmitters, modem, and the like.

012141

**Power supply/charger unit 230 V AC / 12 V DC / 17 Ah****G183012 (EMT), 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, -15% to +10%
Mains frequency	50 - 60 Hz
Max. charging current	0.7 A
Max. continuous current	1.4 A
Temporary continuous current drain (5 min.)	2.4 A
Accumulator capacity approved by VdS	max. 17Ah, max. 2 accumulators connectable
Power consumption	36 VA
Accumulator support	2 x 6.5 Ah
Environmental class according to VdS	II
Housing	Type ZG 2, 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

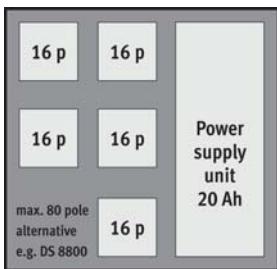
Extension possible to include further distributor blocks, error signal fault transmitters, modem, and the like.

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****G185054 (EMT), Class C**

Power supply unit/charger 010690.01 (12 V DC / 32 Ah) inside housing. Accumulator for max. 20 Ah.

Technical Data

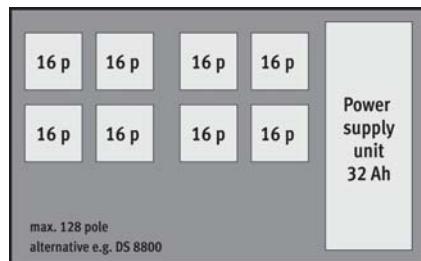
Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 - 60 Hz
Max. charging current	1.1 A
Max. continuous current	2 A
Temporary continuous current drain (5 min.)	2.5 A
Accumulator capacity approved by VdS	20 Ah, max. 2 accumulators connectable
Power consumption	75 VA
Accumulator support	10 Ah or 1 accumulator 16 Ah
Environmental class according to VdS	II
Housing	Type ZG 2, 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, error signal fault transmitters, modem, and the like.

Accessories:

028050 VdS lock insert

010692

**Power supply/charger unit 230 V AC / 12 V DC / 32 Ah****VdS Approval****G185054 (EMT), Class C**

Same as power supply unit/charger 12 V DC / 32 Ah, 010690.01, but inside housing.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 - 60 Hz
Max. charging current	1.1 A
Max. continuous current	2 A
Temporary continuous current drain (5 min.)	2.5 A
Accumulator capacity approved by VdS	32 Ah, max. 2 accumulators connectable
Power consumption	75 VA
Accumulator support	2 x 10 Ah, 1 x 25 Ah, 2 x 16 Ah
Environmental class according to VdS	II
Housing	Type ZG 3.1, 2 mm sheet steel
Dimensions (W x H x D)	500 x 300 x 210 mm
Sheet steel front door	powder-coated, printed
Colour	grey-white, similar to RAL 9002

Extension possible to include further distributor blocks, error signal fault transmitters, 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****VdS Approval****G199022 (EMT), Class C and EN 54-4**

Same as power supply unit/charger 12 V DC / 80 Ah, 012168, but inside housing.

Fully electronic 12 V DC power supply unit/charger 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 sheet steel housing, type ZG 3.1, with LED display for "Mains available" and "Failure" has room 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 - 60 Hz
Power consumption	170 VA
Output	12/24 V DC
Continuous current	max. 0.8 A, at 24 V DC output
Continuous current	max. 3.5 A, at 12 V DC output
Temporary continuous current drain (5 min.)	5 A max.
Accumulator capacity	80 Ah max.
Number of connectable accumulators	max. 2
Operating temperature range	-5 °C to +70 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to 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 units/chargers 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 long.

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 central units, no simultaneous 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	12 V DC non-stabilised, non-smoothed
Output current	500 mA
Type of protection	IP 40 according to DIN40050
Environmental class	II according to VdS
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	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 location, are exhaustive discharge protected, cycle-resistant, long-lived (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. Please make sure that the batteries to be used from the same manufacturer have the same date of manufacture and the same capacity.

018001

 12 V DC accumulator / capacity 1.2 Ah**Technical Data**

Dimensions (W x H x D) 98 x 53 x 43 mm

018002

 12 V DC accumulator / capacity 1.9 Ah**Technical Data**

Dimensions (W x H x D) 176 x 60 x 33 mm

018003

 12 V DC accumulator / capacity 2.6 Ah**Technical Data**

Dimensions (W x H x D) 134 x 60 x 67 mm

018004

 12 V DC accumulator / capacity 6.5 Ah**Technical Data**

Dimensions (W x H x D) 150 x 95 x 65 mm

018005

 12 V DC accumulator / capacity 10 Ah**Technical Data**

Dimensions (W x H x D) 151 x 93 x 97 mm

018011

 12 V DC accumulator / capacity 12 Ah**Technical Data**

Dimensions (W x H x D) 150 x 94 x 97 mm

018007

 12 V DC accumulator / capacity 17 Ah**Technical Data**

Dimensions (W x H x D) 180 x 167 x 77 mm

018006



12 V DC accumulator / capacity 24 Ah

Technical Data

Dimensions (W x H x D)

165 x 122 x 174 mm

018008



12 V DC accumulator / capacity 38 Ah

Technical Data

Dimensions (W x H x D)

197 x 170 x 165 mm

018010



12 V DC accumulator / capacity 65 Ah

Technical Data

Dimensions (W x H x D)

267 x 187 x 162 mm

Accessories

785753



Accumulator kit



Required for connecting accumulator types 018006, 018008, 018010.

Batteries

018050



3 V lithium battery

**Technical Data**

Round cell

3 V / 950 mAh /type: CR2477N

018051



9 V alkali-manganese battery

**Technical Data**

Block battery

9 V / 550 mAh

018053



6 V lithium battery for manual hold-up radio transmitter

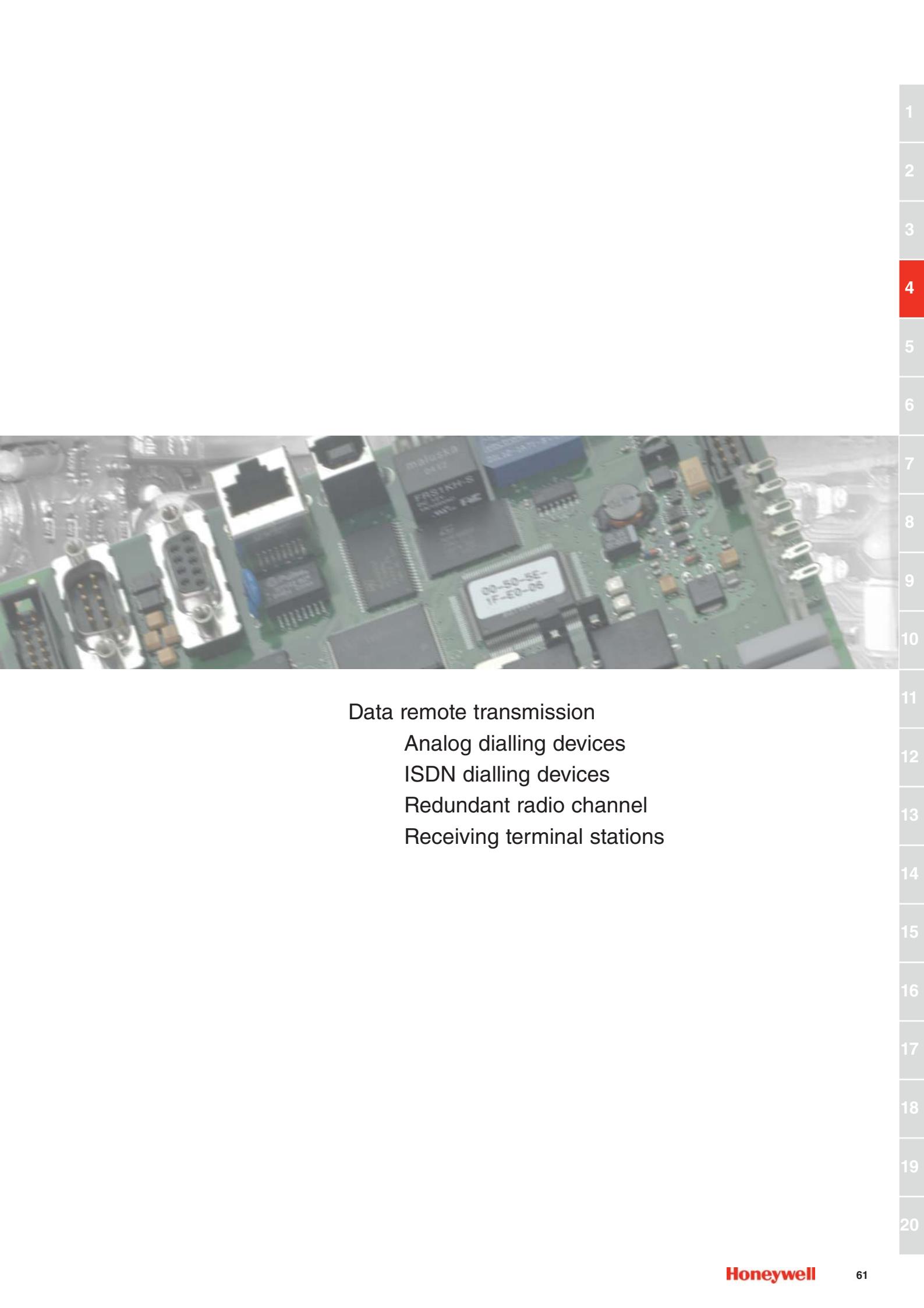
**Technical Data**

Lithium battery

6 V / 150 mAh



A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Data remote transmission

Analog dialling devices

ISDN dialling devices

Redundant radio channel

Receiving terminal stations

 List of transmission devices

Transmission device							
	AWAG 4200	AWAG 6200	DS 6500	DS 8800-AWUG	DGA 2400	DS 8500-ISDN	DS 8500-ISDN analog
Article No.	057605	057623	057870	057700	057920	057875	057876
VdS approval No.	----	G188804	G196803	G193803	G100802	G101803	G101803
Analog telephone network	x	x	x	x	x		
ISDN telephone network						x	x
Ethernet connection							
Voice transmission	x	x					
Number of inputs	1	2	BUS	8	BUS	BUS	BUS
Number of output channels	1	2	32	8	32	32	32
Number of telephone numbers	4	6	8	8	8	8	8
Connection to Telim control centre			x	x	x		x
Connection to ISDN control centre						x	x
SMS function							
X.31 connection							
Online connection via D channel							
GSM redundant radio path ²							
Connection to central unit	Conventional	Conventional	Serial	Conventional	Serial	Serial	Serial
Number of remote switching outputs		2					
Stand-alone operation possible	x	x		x			
Integration module in central units			x	x	x	x	x
Modem functions					x	x	x
Remote parameterisation/Remote inquiry		No/Yes	No/Yes	x ¹	Yes/Yes	Yes/Yes	Yes/Yes
Programming by PC/laptop			x		x	x	x
Programming by mobile programming device		x			x		
Event memory/number of events	1	14	BUS		BUS	BUS	BUS
Routine call functions			x	x	x	x	x
Legend:	¹ = via 2 nd device						
	² = Note: Only in combination with RFW-2000						
BUS = function depends on hazard detection system							

 List of transmission devices

Transmission device						
	DS 7500-ISDN	DS 7500-ISDN analog	DS 8600-ISDN	DS 8600-ISDN Telim	DS 7600	DS 7700
Article No.	057630	057640	011895	011896	057650	057651
VdS approval No.	G196807	G196807	G102807	G102807	G106801	G106802
	discontinued	discontinued				
Analog telephone network						
ISDN telephone network	x	x	x	x	x	x
Ethernet connection						x
Voice transmission					x	x
Number of inputs	8+BUS	8+BUS	BUS	BUS	8 / 88 / 108 ³	8 / 88 / 108 ³
Number of output channels	40	40	32	32	108	108
Number of telephone numbers	8	8	8	8	20	20
Connection to Telim control centre		x		x	x	x
Connection to ISDN control centre	x	x	x	x	x	x
SMS function	x	x	x	x	x	x
X.31 connection	x	x			x	x
Online connection via D channel	x	x			x	x
GSM redundant radio path ²	x				x	x
Connection to central unit	Conventional Serial	Conventional Serial	Serial	Serial	Conventional Serial	Conventional Serial
Number of remote switching outputs	2	2			2 / 82 / 42 ³	2 / 82 / 42 ³
Stand-alone operation possible	x	x			x	x
Integration module in central units	x	x	x	x	x	x
Modem functions	x	x	x	x	x	x
Remote parameterisation/Remote inquiry	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
Programming by PC/laptop	x	x	x	x	x	x
Programming by mobile programming device	x	x				
Event memory/number of events	250	250	BUS	BUS	1000	1000
Routine call functions	x	x	x	x	x	x
Legend: ³ = on-board / max. extension (master operation) / integration						

Automatic dialler with annunciator

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, a button 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

Nominal voltage	12 V DC
Operating voltage	10 V DC to 14 V DC
Closed-circuit current	39 mA
Alarm current	200 mA
Ambient temperature	-10 °C to +35 °C
Storage temperature	-25 °C to +70 °C
Activation	NO or NC contact, potential-free
Transmission method	Voice transmission
Dialling method	Multi-frequency dialling
Connection	TAE-6
Board dimensions (W x H x D)	130 x 160 x 40 mm
Housing dimensions (W x H x D)	250 x 210 x 100 mm

Room for power supply/charger unit 057530.10 and accumulator 018002

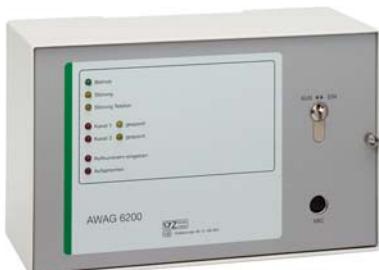
Accessories:

- | | |
|-----------|--|
| 057530.10 | Power supply/charger unit 12 V DC / 7.2 Ah |
| 018002 | Accumulator 12V DC / 2.0 Ah |
| 057550 | ADO8/TAE/IAE covering case |

057623



2-channel telephone dialling device



Performance Features

- 2 detector groups
- Freely programmable
- Electronic language memory
- For use at main stations and private branch exchange systems of the public telephone network
- For use in exchange lines of private branch exchange systems without direct dialling
- Central control via microprocessor
- Word memorising capacity of 44 seconds
- Memorisation of the text information takes place digitally
- Data backed up by an integratable 9 Volt battery

VdS Approval

G188804 (EMT), transmission device

Microprocessor-controlled automatic telephone dialling device with annunciator and user-guidance input of all telephone numbers and control functions on-site via the mobile programming device.

The AWAG 6200 is used for transmitting alarm messages and operating states via the public telephone network. The transmission of the message takes place via digitised speech (speech processor). The text can be recorded on-site as a voice message by microphone.

Technical Data

Standby mode current consumption	65 mA
Power consumption during active operation	120 mA
Environmental class according to VdS	II
Housing	provided with swivel door, 2-mm sheet steel, powder-coated
Dimensions (W x H x D)	300 x 186 x 125 mm
Colour	grey-white, similar to RAL 9002

Computer card 057620.01; language memory card 057620.03; connection pcb 057620.02 with relay for remote control function; male connector for telecom socket; housing

Accessories:

- | | |
|-----------|--|
| 057550 | ADO 8 / TAE 6 / IAE covering case |
| 057530.10 | Power supply/charger unit 12 V DC / 7.2 Ah |
| 018002 | Accumulator 12V DC / 2.0 Ah |
| 059998 | Mobile programming device |

Accessories

057620.04

**Voice recording pcb for AWAG 6200**

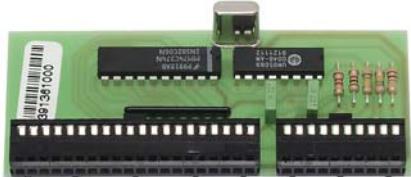
Pcb is used in connection with the microphone 040110 for the voice recording of texts. Like the microphone, it is required only once.

040110

**Microphone**

For voice recording pcb 057620.04

057800-5

**Multi-frequency dialling plug-in card**

Required for private branch exchange systems featuring multi-frequency dialling and onward transmission within a private branch exchange system.

Technical Data

Standby mode current consumption	1mA
Power consumption during active operation	5mA

057820-S

**Handshake transmitter 1S for remote control**

Enables dialog-guided remote inquiry and remote control function for telephone dialling device AWAG 6200.

Explanatory notes for remote inquiry:

In remote interrogation, the device answers the telephone with the announcement text and asks the caller to transmit the acknowledgement signal. If the correct acknowledgement signal is received, another announcement is made, disclosing the current state of the activation channels.

Explanatory notes for remote control:

When using the automatic dialling device with annunciator AWAG 6200, a remote control of both passive status channels is possible. The acknowledgement signal transmitted by the caller or the user being called signals to the device whether the former has a control entitlement. If this is the case, the control-entitled user has the option to switch its status channels to the desired state by means of the handshake transmitter, for example: Light On/Off, Heating On/Off, Fan On/Off.

Article to be discontinued by 31.12.2006

Analog dialling devices with digital transmission

057920



Digital transmission device DGA 2400



Performance Features

- Use at main stations and private branch exchange systems of the public telephone network
- Use within private branch exchange systems in fault switching operation
- Use of private branch exchange systems
- Integrated I-BUS, BUS-2 and IGIS frame BUS interface
- Storage capacity for 8 telephone numbers
- 4 different types of users can be programmed: Digital receiving station, eurosignal, e*cityruf (tone), e*cityruf (numeric)
- Routine call functions
- Pulse dialling or multi-frequency dialling methods
- Permanent monitoring of the connected telephone line
- Direct remote inquiry or remote inquiry by callback for digital transmission
- Remote parameterisation and remote diagnosis of the connected hazard detection system via the public telephone network



G100802 (EMT), transmission device

The digital transmission device DGA 2400 is used for transmitting technical faults, hazard messages and emergency calls to a provider of assistance (e.g. digital receiving terminal station of a security service) and for remote parameterisation and remote diagnosis of compatible Honeywell hazard detection systems over the public telephone network.

The information can be transmitted to a DEZ 9000 or another telim-kompatible receiving terminal station or to a remote WINMAG control centre equipped with a commercially available modem. A remote parameterisation and remote maintenance of the connected hazard detection system can be carried out by means of a PC/laptop using a Hayes-compatible modem and the corresponding WINFEM software module.

The DGA 2400 is equipped with an I-BUS, BUS-2 and an IGIS frame BUS interface. This allows an activation of the transmission device directly via the corresponding interface of the intrusion detection or fire detection central unit (integration module). In the central unit series 561-MB8, 561-MB16 and 561-MB100, the BUS-2 interface and, in the central unit 561-MB256, the I-BUS interface is used.

The DGA 240 can be used as fault signal transmitter (AWUG) and/or modem. The transmission data are established directly via the operating units (e.g. LCD operating unit, WINFEM) of the intrusion detection central units.

The IGIS frame BUS interface allows integration in an IGIS network. When connected to the IGIS frame BUS, programming will take place via the mobile programming device. This type of installation enables the transmission of information and status of all users connected to the IGIS network (e.g. intrusion detection and fire detection central units) to a remote WINMAG control centre (modem function) via the public telephone network.

Moreover, a remote programming and remote maintenance of all users connected to the IGIS network can be carried out via a PC/laptop using a modem and the corresponding WINMAG software package. When connected to the IGIS frame BUS, only the DGA 2400 modem functions for WINMAG and WINFEM software applications are active.

When integrated in compatible Honeywell intrusion detection central units, the DGA 2400 is used as transmission interface between the central unit and the public telephone network. In this case, programming takes place via the operating and configuration elements of the central unit (e.g. operating unit, WINFEM).

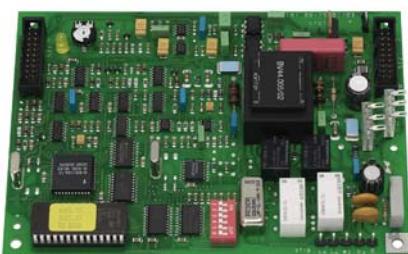
Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Standby mode current consumption	35 mA
Current consumption active	95 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-20 °C to +70 °C
Environmental class according to VdS	II
Dimensions (L x W)	158 x 112 mm
Call number memory	8
Dialling sequences	4
Routine call interval	1 - 24 hours
Receiver types	Telim-compatible receiving station DEZ 9000; receiving stations according to VdS 2465/2471; WINMAG control centre (AT/HAYES modem); WINFEM programming PC (AT/HAYES modem); e*cityruf receiver numeric; e*cityruf receiver tone; Eurosinal
Transmission method	WINFEM/WINMAG CCIIT V 22 bis, full duplex VdS-2471, 2,400 bits/s
Dialling method	Pulse dialling, multi-frequency dialling method
Connection	to telecom-6 socket

Accessories:

059998	Mobile programming device
057550	ADO8/TAE/IAE covering case

057870

**Digital transmission device DS 6500****Performance Features**

- Use at main stations and private branch exchange systems of the public telephone network
- Use within private branch exchange systems in fault switching operation
- Use of private branch exchange systems
- Integrated I-BUS or BUS-2 interface
- Activation of all functions wire-conserving directly via the intrusion detection central unit
- Storage capacity for 8 telephone numbers
- 4 different types of users can be programmed:
Digital receiving station, eurosignal, e*cityruf (tone), e*cityruf (numeric)
- Routine call functions
- Pulse dialling or multi-frequency dialling methods
- Permanent monitoring of the connected telephone line
- Direct remote interrogation or remote interrogation by callback for digital transmission
- Programming is done using the operating unit of the intrusion detection central unit

**G196803 (EMT), transmission device**

The ISDN transmission device DS 6500 is used for digital transmission of technical faults and emergency calls over the public digital telecommunication network (ISDN) to a rescue service (digital receiving station of a security service).

The digital information transmission can take place to a DEZ 9000 or another TELIM-compatible receiving station.

This fault detector has an I-BUS interface and a BUS-2 interface.

The digital fault detector is activated directly and wire-conserving via the intrusion detection central unit.

The application-specific data are programmed directly via the operating units (central unit keyboard and display or WINFEM) of the intrusion detection central units.

Technical Data

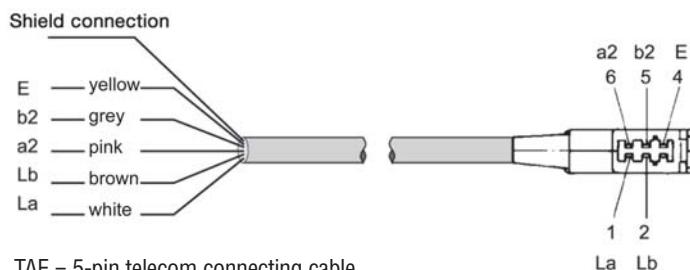
Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	30 mA (stand-by), 70 mA (active)
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-20 °C to +70 °C
Transmission characteristics	meet FTS guidelines 1TR2
Transmission method	CCITT V21, semi-duplex, 10 bits/s
Dialling method	Pulse dialling, multi-frequency dialling method
Connection	to TAE-6 socket
Dimensions (W x H x D)	160 x 115 x 30 mm



Integration module for intrusion detection central units 561-MB8, 561-MB16, 561-MB100, 561-MB256, 561-HB48 and 561-MB48.



Telephone connecting cable 057840.14



Digital transmission device DS 8800

Performance Features

- 8 transmission channels
- BZT registration no. A 106906D for use: in main stations of the public telephone network; within private branch exchange systems in fault switching operation; in exchange lines of private branch exchange systems without direct dialling
- Routine call with weekly pattern
- Remote maintenance and remote parameterisation
- Real-time clock with date, buffered
- Programmable delayed detector groups
- Programmable blocking times via real-time clock
- Event memory with time and date
- Storage capacity for 8 telephone numbers
- Each telephone number can be allocated an individual identification number.
- 5 different types of users can be programmed: Digital receiving station, Omniport receiver, eurosignal, e*cityruf (tone), e*cityruf (numeric)
- 8 different dialling sequences having different priority classes
- Summertime/wintertime change manually or automatically, as desired
- Permanent monitoring of the connected remote transmission
- Direct remote inquiry or remote inquiry by callback for digital transmission
- Potential-free output for different signalling functions
- Free allocation of signal types to each detector group (armed, disarmed, alarm, etc.)
- Input and control of the application-specific data is done directly at the device with user guidance via the intelligent programming device with alphanumeric display
- Positive drive output to be included in the positive drive of intrusion detection systems
- Operating voltage monitoring with message transmission

057700



Digital transmission device DS 8800



Approval

G193803 (EMT)

Transmission of digital information to telim-compatible receiving stations, *ecity/Euro call option.

Technical Data

Nominal voltage	12 V DC
Operating voltage	10.5 V DC to 15 V DC
Closed-circuit current	40 mA
Alarm current	80 mA
Environmental class according to VdS	II
Ambient temperature	-5 °C to +45 °C
Storage temperature	-25 °C to +70 °C
Input channels	8
Activation	Closed-circuit current group, load current group differential detector group
Transmission characteristics	Status change according to the FTZ guidelines
Transmission method	according to CCITT V21
Transmission speed	10 bits/s semi-duplex
Call number memory	8 call numbers maximum of 16 digits each
Redialling	11x per user
Dialling method	Pulse dialling method, multi-frequency dialling method (DTMF) with and without flash
Connection	TAE-6
Dimensions (W x H x D)	215 x 123 x 30 mm



Telephone connecting cable

 **Accessories****057701****DS 8800 additional housing ZG 0**

Housing provided with swivel door made of 2-mm sheet steel, powder-coated Lock can be sealed.

Technical Data

Colour of housing
Dimensions (W x H x D)

grey-white, similar to RAL 9002
230 x 150 x 90 mm

 No room for emergency power supply

057711**DS 8800 additional housing ZG 1**

Housing provided with swivel door made of 2-mm sheet steel, powder-coated Lock can be sealed.

Technical Data

Colour of housing
Dimensions (W x H x D)

grey-white, similar to RAL 9002
300 x 186 x 125 mm

 Room for emergency power supply 057530.10 and 1 accumulator 018002

057638**Mounting set for transmission device in external central units**

Mounting set for DS 8800 in intrusion detection central unit 5008.

Digital transmission device DS 8500

Performance Features

- Use on the basic rate interface: Point-to-multi-point, point-to-point
- Disconnection according to protocol, approved by the Federal Office for Telecommunication Certification for outgoing and incoming sabotage or blocking calls
- Disconnection in case of S0 bus sabotage/defect
- Permanent function control
- Remote programming of the downstream hazard detection system possible via WINFEM
- Remote control of the downstream hazard detection system possible via WINMAG
- Information transmission via ISDN, for receiver types, HDLC-transparent, X.75
- e*cityruf (tone) B channel

The DS 8500-ISDN is run in the ISDN network. It is used for digital transmission of technical faults, hazard messages and emergency calls and for remote parameterisation/remote maintenance of the connected hazard detection system. It is connected to ISDN-capable receiving stations, for example DEZ 9000. The connection to telim-compatible receiving stations can be effected by means of DS8500-ISDN/analog. The transmission device DS 8500-ISDN has an I-BUS interface and a BUS-2 interface. The digital transmission device is activated directly and wire-serving via the intrusion detection central unit. The application-specific data are programmed directly via the operating units (central unit keyboard and display or WINFEM) of the intrusion detection central units.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 14 V DC
Current consumption	45 mA
D channel protocol	E-DSS 1 (Euro ISDN)
Environmental class according to VdS	II
Connection	ISDN connecting cable with IAE 8/4
Dimensions (W x H x D)	158 x 112 x 30 mm

Central unit type	required Software version	bus system BUS-2	I-BUS
561-MB8	V08.XX	X	
561-MB16	V08.XX	X	
561-HB48	V08.XX	X	
561-MB100	V08.XX	X	
561-MB256	V04.XX		
561-HB24	V02.XX	X	
561-HB48 (Art. No. with index .10)	V02.XX	X	
561-MB48 (Art. No. with index .10)	V06.XX	X	
561-MB100 (Art. No. with index .10)	V02.XX	X	

057875



Digital transmission device DS 8500-ISDN



G101803 (EMT), transmission device



Integration module for intrusion detection central units
561-MB8, 561-MB16, 561-MB100, 561-MB256, 561-HB48 and 561-MB48



ISDN connecting cable

057876



Digital transmission device DS 8500-ISDN/analog



G101803 (EMT), transmission device

Digital transmission device for connection to telim-compatible receiving stations.



Integration module for intrusion detection central units
561-MB8, 561-MB16, 561-MB100, 561-MB256, 561-HB48 and 561-MB48



ISDN connecting cable

Performance Features

- Telim, e*cityruf (tone), e*Cityruf (numeric)
B channel

Digital ISDN transmission device with AWAG function DS 7600

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 hazard detection system: I-BUS, BUS-2
- Active, galvanically and functionally decoupled ISDN S0 BUS for downstream ISDN devices
- USB interface for parameterisation and access to compatible hazard detection system
- 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 or camera activation
- 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
- Transmission via the ISDN B channel (VdS 2465, Telim, V.110)
- 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 2000 (optional extension)
- Sending of SMS and e-mail transmission via GSM with RFW 2000 (optional extension)
- Simultaneous use of all transmission types and transmission channels possible
- 20 telephone numbers, 4 dial-up access numbers for X.31 and 5 e-mail addresses programmable
- Modem function for remote access to the hazard detection central unit connected via serial interface
- 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 (USB or remote access) or via central unit operating unit
- Remote connection of the connected hazard detection central unit to WINMAG
- Direct connection of a GPS antenna and transmission of the site coordinated possible
- Different receiver types (HDLC-transparent, X.75, X.25, analog (Telim), Omniport e*cityruf receiver)
- 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

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. The range of functions is not limited to the transmission of hazard messages, but also includes remote parameterisation, remote control and remote maintenance for the device itself as well as for connected compatible hazard detection systems.

Connections take place primarily to ISDN-capable or TELIM-compatible receiving stations, such as the DEZ 9000. When GSM is used as the redundant transmission path, messages can be received from the receiving station 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).

The transmission device can be installed in the central unit 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. 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.

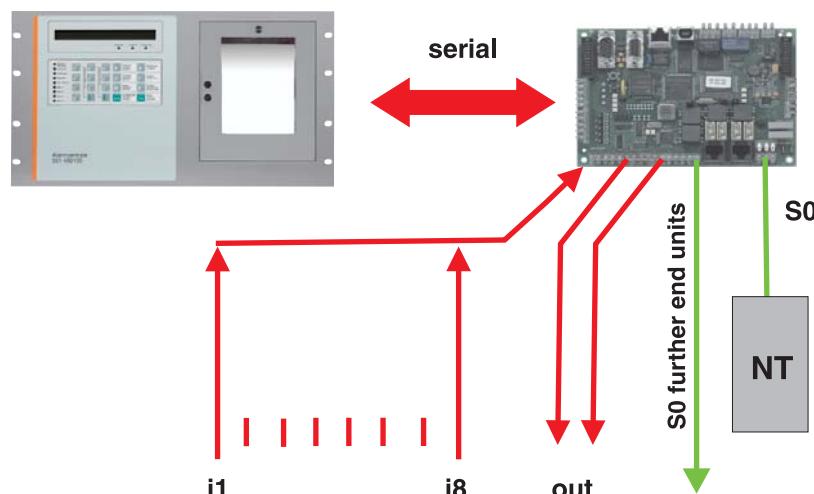
The integrated serial interface is used for connecting devices that interact with the transmission device. The interface can be used in different modes. BUS-2 operation of the serial interface and connection of a compatible hazard detection system gives 32 transmission channels. This WINMAG or WINFEM interface can also be used to access the hazard detection system. This makes it possible to obtain a WINMAG connection, remote configuration, remote control and remote maintenance without using additional transmission devices. When operating the interface as an S1 interface according to VdS, up to 4 compatible devices can be connected.

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 language messages to any telephone connections has been completely integrated in the DS 7600. Language memories containing already existing standard texts that can be modified later on are available for all transmission channels.

The integrated DTMF detection allows remote control functions and remote interrogations 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 interrogation.

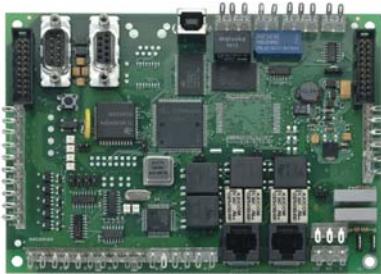
When used as a stand-alone device, the integrated BUS-2 interface allows a connection of BUS-2 5-input or 5-output modules. Moreover, 80 additional inputs or outputs can be set up, allowing very extensive monitoring and control tasks to be covered.



057650



DS 7600 ISDN transmission device with AWAG function



VdS Approval

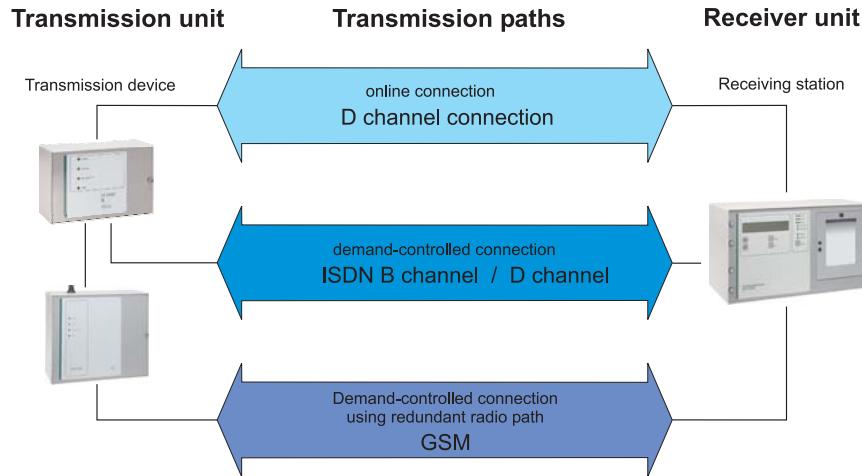
G106801 (EMT)

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 2000). Includes ISDN connecting cable

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Standby mode current consumption	100 mA
Power consumption during active operation	150 mA
Environmental class according to VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Activation	Closed-circuit current group, load current group differential detector group
Board dimensions (L x W)	158 x 112 mm



Accessories:

- | | |
|-----------|--|
| 057631 | Sheet steel housing ZG 0 |
| 057632 | Sheet steel housing ZG 1 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 |
| 018002 | 12 V DC / 2.0 Ah accumulator |
| 057550 | ADO -8 / TAE 6 / IAE covering case |
| 057551 | Covering case in NTBA and terminal box |

Digital ISDN/IP transmission device with AWAG function DS 7700

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 GMA: I-BUS, BUS-2
- Active, galvanically and functionally decoupled ISDN SO BUS for downstream ISDN devices
- Ethernet interface for connection to IP networks
- USB interface for parameterisation and access to compatible hazard detection system
- 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 or camera activation
- 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
- Transmission via the ISDN B channel (VdS 2465, Telim, V.110)
- 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 2000 (optional extension)
- Sending of SMS and e-mail transmission via GSM with RFW 2000 (optional extension)
- Simultaneous use of all transmission types and transmission channels possible
- 20 telephone numbers, 4 dial-up access numbers for X.31 and 5 e-mail addresses programmable
- Modem function for remote access to the hazard detection central unit connected via serial interface
- 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 (USB or remote access) or via central unit operating unit
- Remote connection of the connected hazard detection central unit to WINMAG
- Direct connection of a GPS antenna and transmission of the site coordinated possible
- Different receiver types (HDLC-transparent, X.75, X.25, analog (Telim), Omniport e*cityruf receiver)
- 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

The DS 7700 is a transmission system for use in public or private IP networks having an additional function as ISDN transmission device. A further redundancy via GSM can be obtained with optional accessories (RFW 2000). The range of functions is not limited to the transmission of hazard messages, but also includes remote parameterisation, remote control and remote maintenance for the device itself as well as for connected compatible hazard detection systems.

Connections take place via ISDN 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 receiving station via ISDN or a separate GSM module. Voice or SMS transmission is effected via ISDN (for SMS, optionally by GSM) to any telephone connection.

The transmission device can be installed in the central unit 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.

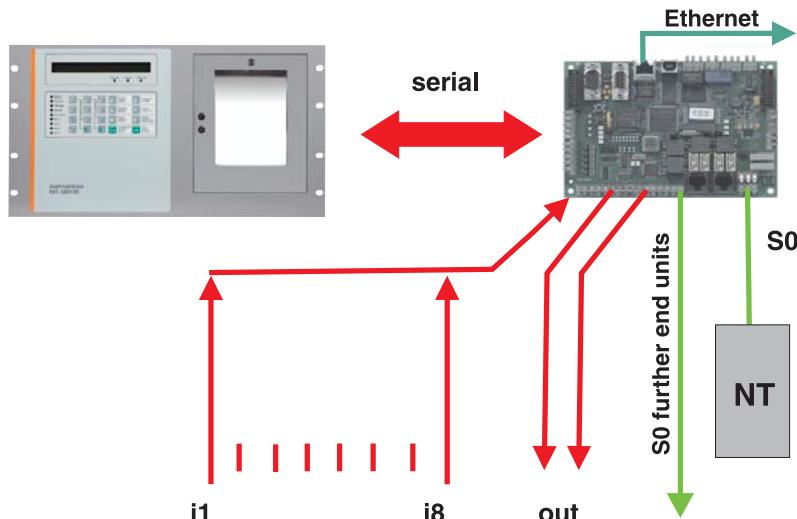
The integrated serial interface is used for connecting devices that interact with the transmission device. The interface can be used in different modes. BUS-2 operation of the serial interface and connection of a compatible hazard detection system gives 32 transmission channels. This WINMAG or WINFEM interface can also be used to access the hazard detection system. This makes it possible to obtain a WINMAG connection, remote configuration, remote control and remote maintenance without using additional transmission devices. When operating the interface as an S1 interface according to VdS, up to 4 compatible devices can be connected.

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 DS7700 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 in the DS 7700. Language memories containing already existing standard texts that can be modified later on are available for all transmission channels.

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.



057651



DS 7700 ISDN/IP transmission device with AWAG function



VdS Approval

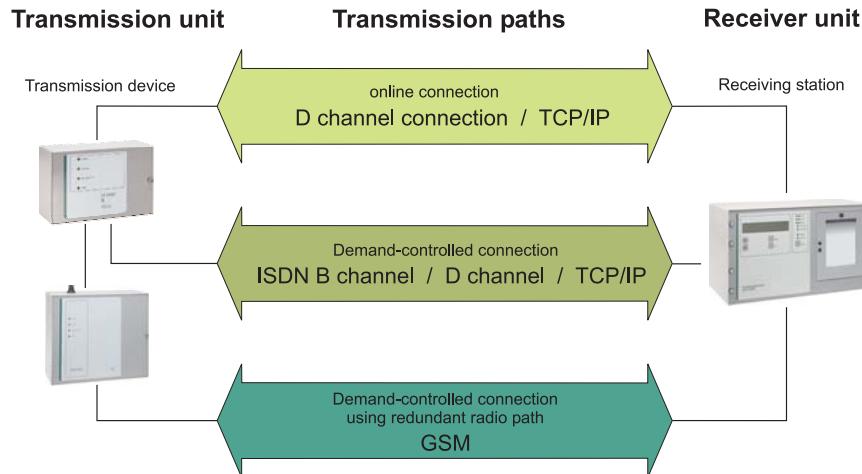
G106802 (EMT)

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 networks (in connection with RFW 2000). incl. ISDN connecting cable

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Standby mode current consumption	160 mA
Power consumption during active operation	200 mA
Environmental class according to VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Activation	Closed-circuit current group, load current group differential detector group
Board dimensions (L x W)	158 x 112 mm



Accessories:

- 057631 Sheet steel housing ZG 0
- 057632 Sheet steel housing ZG 1 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
- 018002 12 V DC / 2.0 Ah accumulator
- 057550 ADO -8 / TAE 6 / IAE covering case
- 057551 Covering case in NTBA and terminal box

► Accessories DS 7500 / DS 7600 / DS 7700

057631



Additional housing ZG 0 for ISDN dialling devices



Technical Data

Housing	provided with swivel door, 2-mm sheet steel, powder-coated via seal
Lock	via seal
Dimensions (W x H x D)	230 x 155 x 90 mm
Colour	grey-white, similar to RAL 9002

No room for emergency power supply

057632



Additional housing ZG 1 for ISDN dialling devices



Technical Data

Housing	provided with swivel door, 2-mm sheet steel, powder-coated via seal
Lock	via seal
Dimensions (W x H x D)	300 x 186 x 125 mm
Colour	grey-white, similar to RAL 9002

Room for emergency power supply 057530.10 and 1 accumulator 018002

057639



Mounting set for transmission device DS 7500



Mounting set for DS 19,050.00 cm intrusion detection central unit 5008.

Special connecting cable



057550



ADO-8 / TAE-6 / IAE covering case



sheet steel 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 75 mm
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.

057918 **DGA adapter / IGIS frame BUS**

For connecting the DGA 2400 directly to an IGIS LAN interface 013300.

System RFW-2000

The VdS-approved “redundant radio path” serves as independent transmission path for transmitting hazard messages via ISDN and GSM networks D1 and D2 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.

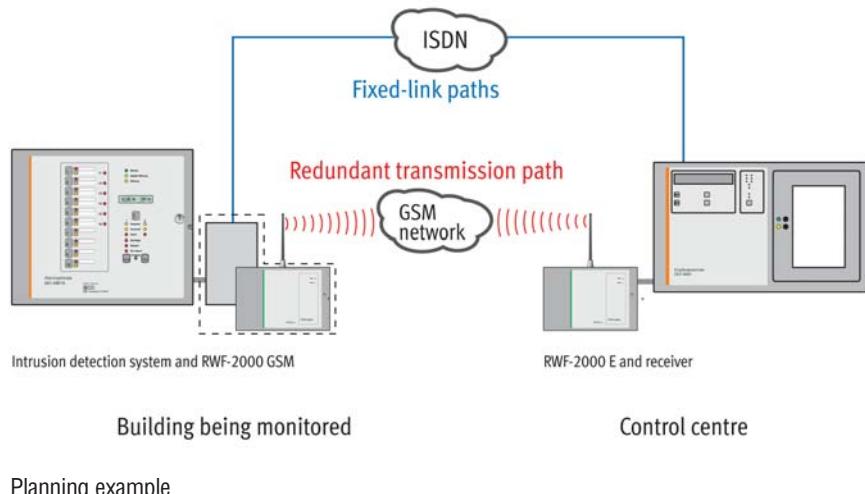
According to the VdS, the replacement transmission path must run over separate lines to the object and also the receiving centre.

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.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Standby mode current consumption	<45 mA
Power consumption during active operation	<300 mA
Environmental class according to VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Housing ZG 2 dimensions (W x H x D)	350 x 300 x 152 mm
Colour	grey-white, similar to RAL 9002

 The technical data of the GMS terminal are based on information from the manufacturer.



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	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
059998	Mobile programming device

057570

 RFW-2000 GSM **VdS Approval****G196807 (EMT), transmission device**

GSM information transmission system for digital transmission systems DS 7500, DS 7600, DS 7700.

Emergency power supply, 010686 or 057530; accumulator 6.5 Ah, 018004.

 For setting up a complete transmission system, a DS 7500, DS 7600 or DS 7700 is required. D network terminal Siemens TC 35 including serial connecting cable; GSM adapter (057571) for DS 7500; connection pcb and power supply cable; antenna for D network terminal; application forms; housing ZG 2

057580

 RFW-2000 E **VdS Approval****G196801 (EMT), transmission device**

Redundant radio path for receiver units, system including a GSM terminal.

GSM information transmission system for ISDN reception module.

Installation option for: Emergency power supply, 010686 or 057530; accumulator 6.5 Ah, 018004.

 To set up a complete transmission system for receiver units, an ISDN receiver module (057885) is required as system component of the digital receiving station DEZ 9000. D network terminal Siemens TC 35 including serial connecting cable; GSM adapter (057572) for ISDN receiver module; connection pcb and power supply cable; antenna for D network terminal; application forms; housing ZG 2

Accessories

057571

 GSM adapter for DS 7500-ISDN

057572

 GSM adapter for ISDN reception module

Application example

All required components must be housed in the housing of the RFW-2000 (ZG 2).

To set up a complete transmission system, an ISDN transmission device DS 7500, DS 7600 or DS 7700 is required.

This ISDN transmission device can be installed, depending on the application, in the housing of the RFW-2000 or in the housing of the hazard detection central unit.

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 central units, via BUS-2 or I-BUS.

It goes without saying that the RFW-2000 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.

The card contract necessary for operating the GSM terminal can be ordered from:

Nerz Funktechnik
Ebinger Straße 60 • D-72393 Burladingen
Telephone +49 (0) 7475/1345 • Fax +49 (0) 7475/7010
<http://www.nerz.com>

The commissions paid out by the respective network providers for arranging a card contract will be passed on to the applicant (installer) via the company Nerz.
The appropriate application forms are enclosed with the RFW-2000.

Further applications:

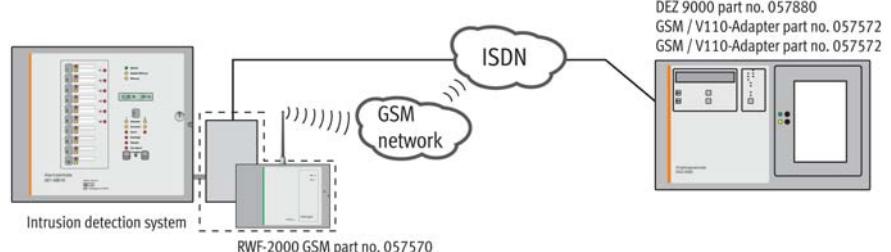
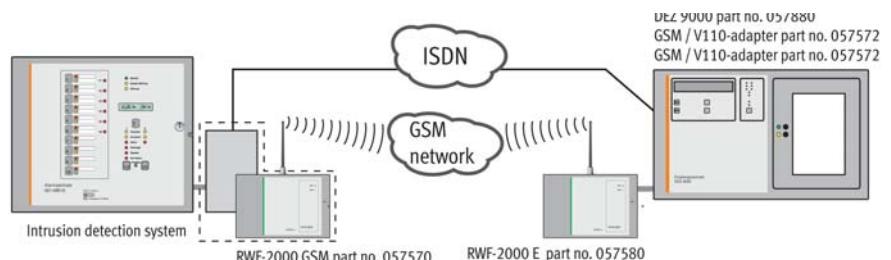
RFW-2000 GSM as “stand-alone” version

As “stand-alone” device, the RFW-2000 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.



Connection option to a receiving station of a security service.

► Remote control receiving terminal station DEZ 9000

Performance Features

- up to 8 network access options
- Receiver modules for ISDN or telim-compatible transmission systems
- Connection via X.25 (ISDN D channel) allows a permanently active virtual connection to the connected objects
- Receiver module for Datex-P can be integrated
- 4x40-digit alphanumeric LC display
- 40-digit heat transfer printer
- Different interface protocols for downstream control centre DIN 66019 (TSS 31)
- Configuration via control centre or via directly connectable PC keyboard
- Comfortable PC user interface including control centre functions (DEZ-WIN) included in the delivery (upload/download)
- Runs under Windows 3.11 / 9X / NT/2000/XP
- Remote control of fault detectors/transmission devices possible
- Automatic remote inquiry (status inquiry)
- Stand-alone or 19" model
- Event memory having a minimum capacity of 20 events/object
- Separate event memory for system activities, history memory
- User-definable text macros
- Extensive configuration options (printer, buzzer, routine call monitoring)
- Independent routine call monitoring possible
- Extensive statistics and diagnosis functions
- Reception via GSM networks D1 and D2 (in connection with ISDN receiver module and GSM adapter)

VdS Approval

G196801 (EMT), transmission device

The receiving terminal station DEZ 9000 is used for message reception, registration and processing of alarms, faults and test messages from hazard and fault detection systems. This terminal station has been designed as front end computer and "services concentrator" for a downstream remote control centre. If no control centre is available, the DEZ 9000 can be used as universal reception computer.

Owing to the option of connecting an external computer (PC), a comfortable operating and configuration software having selected control centre functions is available in the form of the "DEZ-WIN" Windows program.

A 40-digit alphanumeric heat transfer printer for recording is available as a standard feature. This allows the operator continuous documentation of events that are not recorded by the downstream control centre or of events whose printout is absolutely necessary. Its modular structure and performance makes the DEZ 9000 a device component that also meets the requirements resulting from the modern transmission media (e.g. ISDN) and complex information processing. The hardware requirements for receiving messages from GSM networks are provided by means of the RFW-2000 E (057580) module.

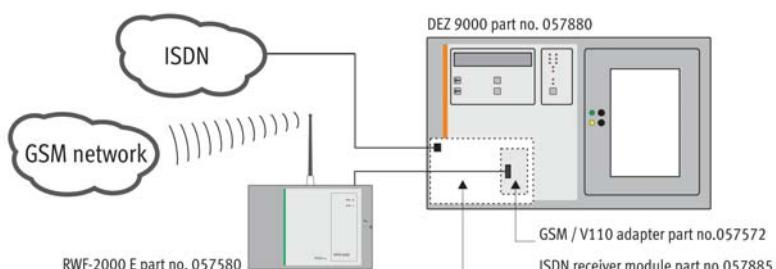
The RFW-2000 E essentially consists of a radio terminal and suitable connection components, installed in a sheet steel housing ZG 2, on which the required antenna has also been mounted. The RFW-2000 E is connected to the GSM / V.110 adapter included in the delivery, which can be plugged into an existing ISDN receiver module.

If a connection in accordance with VdS, in order to provide a replacement path on the control centre side, is not required, the RFW-2000 E module does not have to be used. In this case, the GSM / V.110 adapter (057572) is sufficient for receiving alarms via GSM networks.

It is plugged into an existing ISDN receiver module.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC / -15 % to +10 %
Frequency	50 Hz
Rated operating voltage	12 V DC
Rated operating voltage range	10.5 V to 15 V DC
Accumulator charging voltage	13.8 V DC
Current consumption at rated voltage in the absence of modules, of 2 MB RAM	200 mA
Passive heat transfer printer	100 mA
Active heat transfer printer	max. 600 mA
Standby telim receiver module	25 mA
Active telim receiver module	50 mA
Standby ISDN receiver module	65 mA
ISDN receiver module active	65 mA
2 MB RAM extension	10 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 DIN 40050	IP 30
Dimensions (W x H x D)	488 x 272 x 230 mm



Planning example

Accessories:

- | | |
|--------|---|
| 059200 | Software update, German for DEZ 9000 |
| 059201 | Software update, German for DEZ ISDN receiver module |
| 059202 | Software update, German for DEZ TELIM receiver module |
| 059203 | Software update, German for Datex-P receiver module |

057880



DEZ 9000 receiving terminal station in housing

**Technical Data**

Mains voltage	230 V AC / -15% to +10%
Mains frequency	50 Hz
Nominal voltage	12 V DC
Operating voltage	10.5 V to 15 V DC
Accumulator charging voltage	13.8 V DC
Ambient temperature	-5 °C to +45 °C
Storage temperature	-25 °C to +70 °C
Environmental class according to VdS	II
Type of protection	IP 30
Dimensions (W x H x D)	488 x 272 x 230 mm

In the housing, 4 receiver modules, power supply/charger unit, for example 010690.01 and 2 accumulators 6.5 Ah can be integrated.

40-digit heat transfer printer; 2 MB memory card; serial interface for connecting a remote control centre or an external computer (PC); includes "DEZ-WIN" PC user interface.

057881



DEZ 9000 19" front plate 6 HE, installation in 19" cabinet



40-digit heat transfer printer; 2 MB memory card; serial interface for connecting a remote control centre or an external computer (PC); includes "DEZ-WIN" PC user interface.

057882



19" mounting plate



19" mounting plate for 4 receiver modules 6 HE, installation in 19" cabinet

The mounting plate allows 4 receiver modules to be integrated in a 19" cabinet.

Accessories:

010690.01	Power supply/charger unit 12 V DC / 32 Ah
018004	12 V DC / 6.5 Ah accumulator
013901	Paper roll for heat transfer printer
018050	Replacement buffer battery 3 V lithium round cell 950 mAh, RENATA CR 2477N

Connecting cable

013100.10	Set of connecting cables 40/250 mm
013100.12	Connecting cable 250 mm
013100.11	Connecting cable 400 mm

ISDN connecting cables

057845	ISDN connecting cable with open end and Western plug, 1 m
057846	ISDN connecting cable including two Western connectors, 1.5 m

Covering case

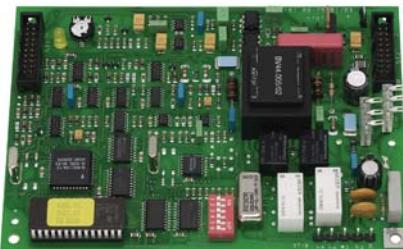
057551	Covering case for NTBA and terminal box
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 Accessories

057883



Telim receiver module for DEZ 9000



Receiver module for analog network access (analog telephone network).



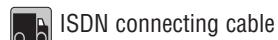
057885



ISDN receiver module DEZ 9000



Receiver module for ISDN network access.



057886



Datex-P receiver module for DEZ 9000



The receiver module allows connection to the Datex-P network of the TELEKOM.

057884



2MB RAM extension for DEZ 9000



057888



IP receiver module for DEZ 9000

Information transmission receiving via IP network. Ethernet interface for connection to IP networks.



 Software

059200

 Software update, German for DEZ 9000

059201

 Software update, German for DEZ ISDN receiver module

059202

 Software update, German for DEZ TELIM receiver module

059203

 Software update, German for Datex-P receiver module

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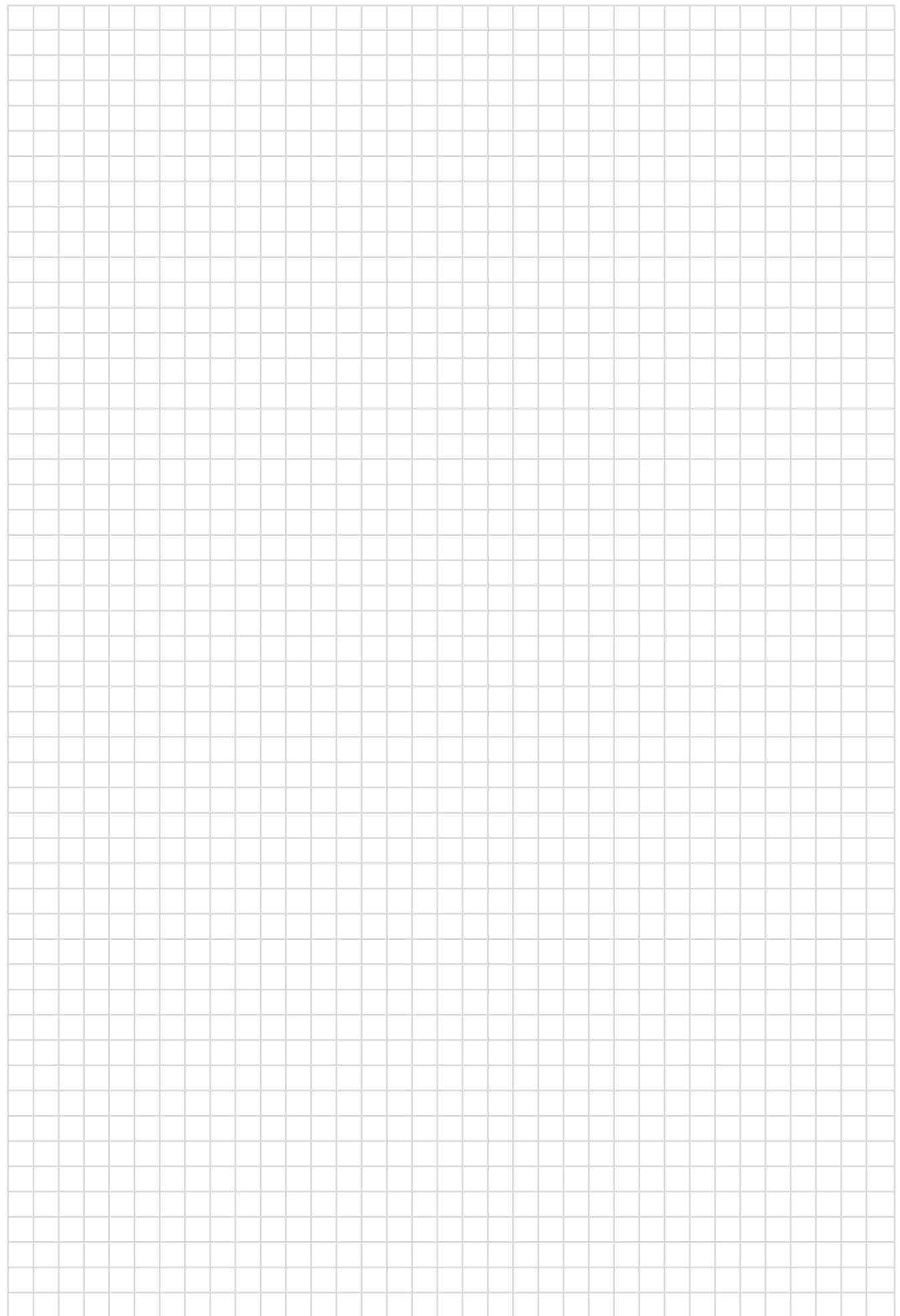
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A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Transponder

BUS-2

BUS-1

BUS-2

013130.10

**5-input module BUS-2****VdS Approval****G199087 (EMT), Class C**

The 5-input module is a BUS-2 user which 5 differential detector groups of 12.1 kOhm terminal resistance can be connected to.

The input module also contains 5 red LEDs for detector group display, an integrated cover contact and a buzzer which can be addressed either statically or in an interval, as desired.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Stand-by current consumption	2.5 mA, inputs open
Stand-by current consumption	6 mA, inputs terminated
Current consumption max.	46 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	grey-white, similar to RAL 9002

Features

- 5 differential detector groups can be connected
- 5 red LEDs for detector group display
- Integrated cover contact
- Buzzer

013131.10

**5-output module BUS-2****VdS Approval****G199088 (EMT), Class C**

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 central unit.

The 5-output module also contains an integrated cover contact and a buzzer which can be addressed either statically or in an interval, as desired.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption	1.3 mA, all outputs inactive
Current consumption	24 mA, all outputs active, buzzer on, no consumers connected
Current consumption	350 mA, all outputs active and short-circuited
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	grey-white, similar to RAL 9002

Performance Features

- 5 semiconductor outputs
- Integrated cover contact
- Buzzer

013133


Mini module, BUS-2


The BUS-2 mini module allows a detector to be integrated in a BUS-2 system by conventional connection technology. All required messages (alarm, fault, sabotage) can be transmitted to the central unit via three logic inputs.

Three outputs allow the functional control of the connected detector:

- Output 1: armed / disarmed
- Output 2: walk test
- Output 3: Freely programmable

The mini module is mounted in the housing of the detector.

Technical Data

Rated operating voltage	12 V DC (from BUS-2)
Operating voltage range	10 V to 15 V DC
Current consumption on BUS-2	Closed-circuit current: All inputs connected to 0 V, outputs not activated: approx. 500 µA; all inputs open, outputs not activated: Approx. 1 mA Maximum current: All inputs open, all outputs activated and short-circuited: approx. 37 mA
Current consumption on BUS-2	BUS-2: 4-pin terminal; detector: 6-pin moulded flat-band cable, length approx. 140 mm
Connection	IP 30 II -5 °C to +45 °C -25 °C to +70 °C
Type of protection DIN 40050	Dimensions (W x H x D)
Environmental class according to VdS	40 x 18 x 13 mm (excluding cable)
Operating temperature range	
Storage temperature range	
Dimensions (W x H x D)	



Can be used in the current central units HB/MB24, HB/MB48 and MB100

013128


BUS-2 isolation module


The BUS-2 isolation modules can be used to set up, in connection with the BUS-2 loop module (art. no. 013220.07.10), a BUS-2 loop and/or spur loop 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 spur loop:

If isolation modules are used in a BUS-2 spur loop, the BUS remains fully functional up to the isolation module on the upstream side of the defect site.

A maximum of 8 isolation modules may be used per loop and spur loop.

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 DIN 40050	IP 40
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)	85 x 109 x 30 mm
Colour	grey-white, similar to RAL 9002



A BUS-2 loop topology can be set up using the current central units HB/MB48 and MB100.

 **Detector group modules**

The modules allow conventional detector technology to be connected to the BUS-1 system technology. The modules provide two differential detector groups that are working independently of one another. Per detector group, up to 20 passive glass breakage sensors and/or contacts can be connected.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Closed-circuit current consumption	max. 4 mA, 1 detector group module
Closed-circuit current consumption	max. 5 mA, 2 detector group module
Detector group active	max. 3 mA
Detector group displays per LED	2 mA
Current consumption	max. 16 mA, extinguishing process 1 detector group module
Current consumption	max. 28 mA, extinguishing process 2 detector group module
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	grey-white, similar to RAL 9002

010109.10

**BUS-1 1-detector group connection module****Approval****G191082 (EMT), Class C**

010110.10

**BUS-1 2-detector group connection module****Approval****G191083 (EMT), Class C**

010118

**BUS-1 2-detector group connection module, flush-mounted****Approval****G102032 (EMT), Class C**

Can be installed in a flush-mounted installation box or a flush-mounted hollow-wall box ($\varnothing = 55$ mm)

Technical Data

Dimensions ($\varnothing \times T$)	54 x 32 mm
Colour	grey-white, similar to RAL 9002

010116

 **BUS-1 distributor module**
 Approval**G194038 (EMT), Class C**

The distributor module allows several BUS-1 lines to be connected star-shaped to a distributor point. One BUS-1 input and 4 outputs are available for this. As an additional option, a differential detector group (terminating resistance 12.1 kOhm) with LED display has been integrated in the distributor module. The housing monitoring is done by a cover contact acting immediately on the tamper detector group.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Closed-circuit current	0.9 mA
Detector group active	15 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	grey-white, similar to RAL 9002

 **Universal connection 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 a signal display via a semiconductor output, i.e., an additional parallel display or a signalling device can be activated.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Closed-circuit current	2 mA
Semiconductor output	50 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II

010111

 **BUS-1 Universal connection module, flush 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**
 Approval**G197059 (EMT), Class C****Technical Data**

Current consumption max.	9 mA
Dimensions ($\varnothing \times T$)	54 x 32 mm

Same functions as 01011, but for mounting into a flush-mounted hollow-wall box \varnothing 55 mm.

 **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 central unit. Two models of different switching powers are available. The integrated relays are equipped with two-way contacts with neutral position.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption	0.5 mA, when idle
Parallel indicator	max. 20 mA, external
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	grey-white, similar to RAL 9002

041150.10**BUS-1 switching module, 24 V DC / 1 A** **Approval****G191085 (EMT), Class C****Technical Data**

Current consumption	21 mA, with relay
Switching capacity	24 V / 1 A (relay)

041151.10**BUS-1 switching module, 250 V DC / 5 A** **Approval****G191086 (EMT), Class C****Technical Data**

Current consumption	40 mA, with relay
Switching capacity	230 V AC / 5 A (relay)



Fire detector

062085

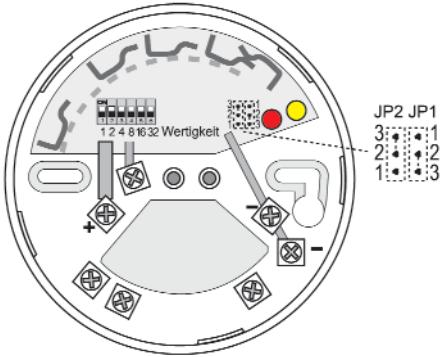
||||||| BUS-1 smoke detector base



The smoke detector base module allows smoke or heat detectors to be integrated within a BUS-1 system. The detector base has an LED alarm display.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Average current consumption	<7.5 mA
Current consumption in case of alarm	Approx. 13 mA
Alarm display	LED red
Display shows SDN fault	LED yellow
Operating temperature range	-10 °C to +70 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Type of protection DIN 40 050	IP 42
Weight	105 g
Dimensions (Ø x H)	101.5 x 23.5 mm
Colour	pure white, similar to RAL 9010



General outline BUS-1 smoke detector base module.

After removing the detector, the base can be programmed to act as "Alarm triggering" or "Tamper alarm triggering".

Accessories:

062040	Optic smoke detector S-3000 fitted with an insect guard
062700	Rate-of-rise heat detector Cl. 1, S-300
062701	Rate-of-rise heat detector Cl. 2, S-300
062702	Rate-of-rise heat detector Cl. 3, S-300
062750	Fixed temperature detector Cl. 1, S-300
062751	Fixed temperature detector Cl. 2, S-300
062752	Fixed temperature detector Cl. 3, S-300
062753	Fixed temperature detector TB 1, S-300

 Radio program

015128

 BUS-1 radio module, multifunctional


The radio module allows radio users to be integrated in intrusion detection central units by means of BUS-1 technology. The module allows to set up 4 radio groups and radio-controlled arming/disarming.

The radio module is secondary control unit connected to the main control centre via the BUS-1. Triggering of a radio user can be identified individually at the control centre.

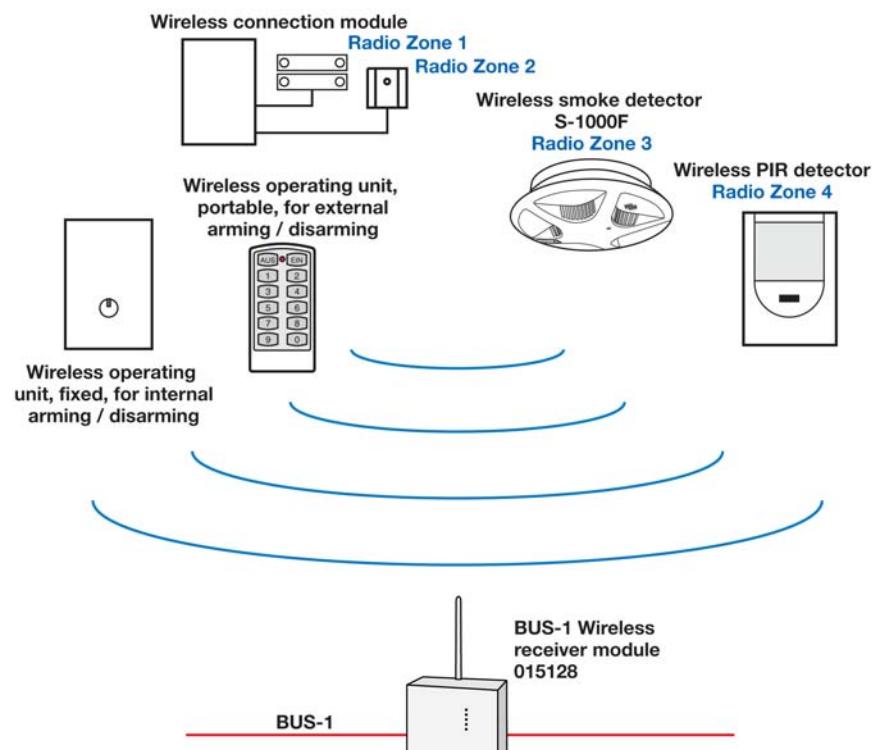
Connectable components:

Radio connection module 015121, radio PIR detectors 015160, 015164, 015166, radio hold-up manual transmitter 015115, radio remote control unit for hold-up triggering and arming/disarming 015135, radio door module for arming/disarming 015133, 015133.10, radio operating unit module for arming/disarming 015136, 015138, radio smoke detector S-1000 F, art. no. 062120.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	17 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +60 °C
Environmental class according to VdS	II
Range in free space	150 m
Dimensions (W x H x D)	18 x 118 x 31 mm (excluding antenna)

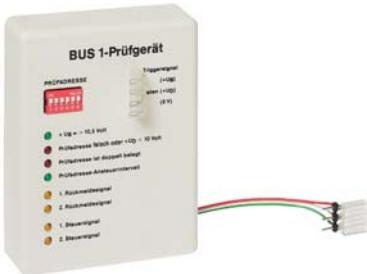
Article to be discontinued by 31.12.07



► Accessories

010138

||||| BUS-1 tester



The BUS-1 tester allows all addresses on the BUS-1 lane to be tested for their transmission states and levels from any location.

The evaluated data are displayed optically. Measuring points outside the housing are available for measurement with an oscilloscope.

► Flush-mounted housing program

050304

||||| Flush-mounted basic housing cover, without LED opening



For 041150.10 and 041151.10.

Technical Data

Dimensions (W x H)
Colour

105 x 129 mm
grey-white, similar to RAL 9002

050305

||||| Flush-mounted basic housing cover, 1 LED opening



For 010109.10, 010116 and 032158.

Technical Data

Dimensions (W x H)
Colour

105 x 129 mm
grey-white, similar to RAL 9002

050306

||||| Flush-mounted basic housing cover, 2 LED openings



For 010110.10.

Technical Data

Dimensions (W x H)
Colour

105 x 129 mm
grey-white, similar to RAL 9002

050302

||||| Flush-mounted housing



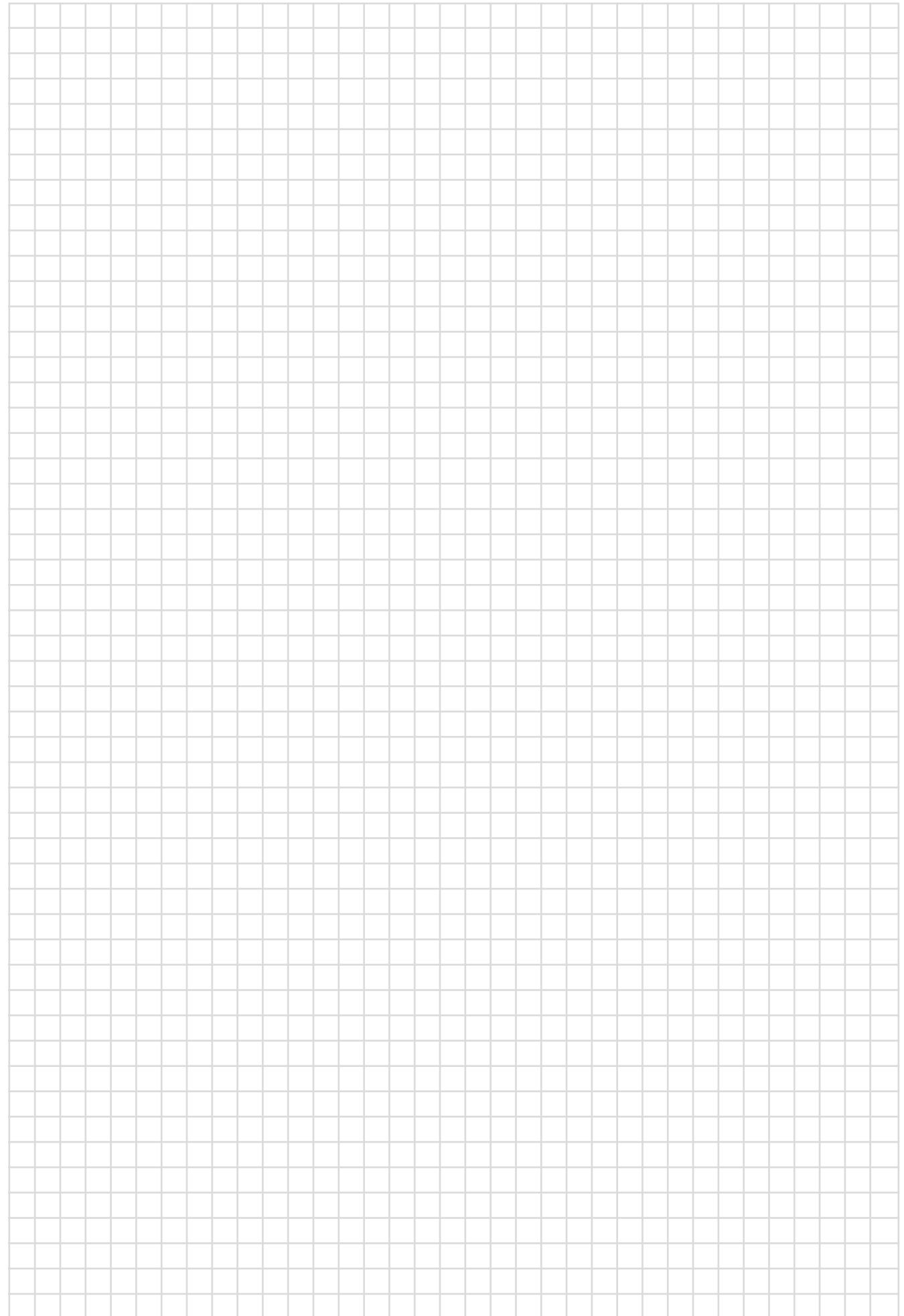
For housing covers 050304, 050305 and 050306.

Technical Data

Dimensions (W x H x D)

92 x 116 x 35 mm





A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Switching devices
Locks
Door code systems

IDENT-KEY 3

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 system
- Usability of MIFARE readers in the "Accentic" design from access control

Switching device with encrypted data transmission

IDENT-KEY 3 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 (AWE) 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 AWE 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)

023312.10



IK3 evaluating unit for BUS-2



Approval

**G104028 (EMT), Class C
Z105008 (Access Control) Class C**

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 AWE and do not have to be wired back individually to the intrusion detection system (low mounting effort).

The programming of the application-specific data (e.g. key numbers, time-dependent entitlements, etc.) can be done directly via the intrusion detection central unit (LCD operating unit or software module WINFEM). WINFEM User allows end customers to make changes to a limited extent and to allocate access rights.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Output voltage	12 V DC, short circuit protected, current limited to 200mA <15mA (maximum value)
Closed-circuit current	typ. 25 mA (AWE+all inputs+IK3 operating unit)
Current consumption	IP 30
Type of protection DIN 40050	II
Environmental class according to VdS	-5 °C to +55 °C
Operating temperature range	118 x 118 x 31 mm
Dimensions (W x H x D)	grey-white, similar to RAL 9002
Colour	

023310



Conventional IK3 evaluating unit

**Performance Features**

- Up to 4 IK3 and/or Mifare readers "Accentic" can be connected via the RS-485 interface, also mixed or 1 IK2 operating unit of any type or 1 IK2 block lock
- RS-485 interface having a range of up to 1,200 m
- The locking elements used can be locking element 1, locking element 3 and/or SLIM-LOCK.
- Up to 16 control functions can be defined
- Bank personal protection system possible via programming of the AWE
- Firmware update via flash memory
- up to 512 users

**Approval****applied for**

The conventional IK3 evaluating unit can be used for central units 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.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Output voltage	12 V DC, short circuit protected, current limited to 200mA
Closed-circuit current	<15 mA (maximum value)
Current consumption	typ. 25 mA (AWE+IK3 operating unit)
Type of protection DIN 40050	IP 30
Environmental class according to VdS	II
Operating temperature range	-5 °C to +55 °C
Dimensions (W x H x D)	196 x 142 x 32 mm
Colour	grey-white, similar to RAL 9002

023320



IK3 reader with keyboard aluminium-white

**Approval****G 104030 (EMT), Class C****Z 105007 (Access Control) Class C**

IK3 reader in the "Accentic" design.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption	<11 mA in stand-by operation, <50 mA in time-limited read/write mode, <4 mA luminous background
Interface	RS485
Type of protection DIN 40050	IP 65
Environmental class according to VdS	III
Operating temperature range	-25°C to +55°C
Reading distance	max. 10 cm
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	aluminium-white, similar to RAL 9006

Accessories:

023501 Plastic shield (view/weather)

023329 Mounting plates, 3 per packaging unit

023315



Face plate for 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
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3 units

023316

||||||| Face plate for IK3 and “Accentic” readers with keypad, anthracite



Replaceable face plate for IK3 or “Accentic” readers.

Technical Data

Colour	anthracite (atlas grey metallic)
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023314

||||||| Face plate for IK3 and “Accentic” readers with keypad, aluminium-white



Replaceable face plate for IK3 or “Accentic” readers.

Technical Data

Colour	aluminium-white, similar to RAL 9006
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023322

||||||| IK3 reader with keyboard, contactless, aluminium-white



VdS Approval

G 104029 (EMT), Class C
Z 105006 (Access Control) Class C

IK3 reader in the “Accentic” design.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V
Operating temperature range	-25°C to +55°C
Environmental class according to VdS	III
Type of protection DIN 40050	IP 65
Housing	Plastic
Dimensions (W x H x D)	75 x 144 x 32 mm
Colour	aluminium-white, similar to RAL 9006

Features

- Replaceable face plates
- Insensitive to soiling
- Largely vandalism-proof
- Can be mounted directly on standard flush-mounted boxes
- RS485 interface for operating units of a range up to 1,200 m

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plates, 3 per packaging unit

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
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023318

**Face plate for IK3 and “Accentic” readers, anthracite**

Replaceable face plate for IK3 or “Accentic” readers.

Technical Data

Colour

anthracite



3 units

023319

**Face plate for IK3 and “Accentic” readers, aluminium-white**

Replaceable face plate for IK3 or “Accentic” readers.

Technical Data

Colour

aluminium-white, similar to RAL 9006



3 units

► **Accessories**

023501

**Plastic housing (weather/view)**

The housing is in tune with the modern line of the operating units of the IK3 system.

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 units

023324

**Housing bottom for Accentic readers with cover contact**

Replacement housing bottom for IK3 readers “Accentic” with integrated cover contact for an IK3 system design according to BSI.

 IK3 readers for Siedle Vario system

 Approval applied for

IK3 reader for connection to IK3 evaluating units. Operation is done by the contactless ident carrier system IK3 or proX2. The IK2 and proX1 ident carrier systems can also be used, but they do not support the IK3 "Alternating code method" performance feature. The models including keyboard allow working additionally with keyboard commands, thus allowing the entire IK3 range of functions to be used. 3 LEDs are available for optical display.

The IK3 readers in Siedle design will be available from 15.08.2006

023340



Contactless reader with keyboard IK3 / proX2, white



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 max.	<50 mA in time-limited read mode
Operating temperature range	-25°C to +55°C
Environmental class according to VdS	III
Type of protection DIN 40050	IP 54
Reading distance	approx. 80 mm with ID cards

023341



Contactless reader with keyboard IK3 / proX2, titanium

023342



Contactless reader with keyboard IK3 / proX2, silver

023343

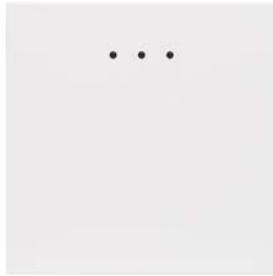


Contactless reader with keyboard IK3 / proX2, graphite-brown

023330



Contactless reader IK3 / proX2, white



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 max.	<50 mA in time-limited read mode
Operating temperature range	-25°C to +55°C
Environmental class according to VdS	III
Type of protection DIN 40050	IP 54
Reading distance	approx. 80 mm with ID cards

023331



Contactless reader IK3 / proX2, titanium

023332



Contactless reader IK3 / proX2, silver

023333



Contactless reader IK3 / proX2, graphite-brown

IDENT-KEY 2

 Approval **Intrusion detection technology classes A - B - C / access control class A**

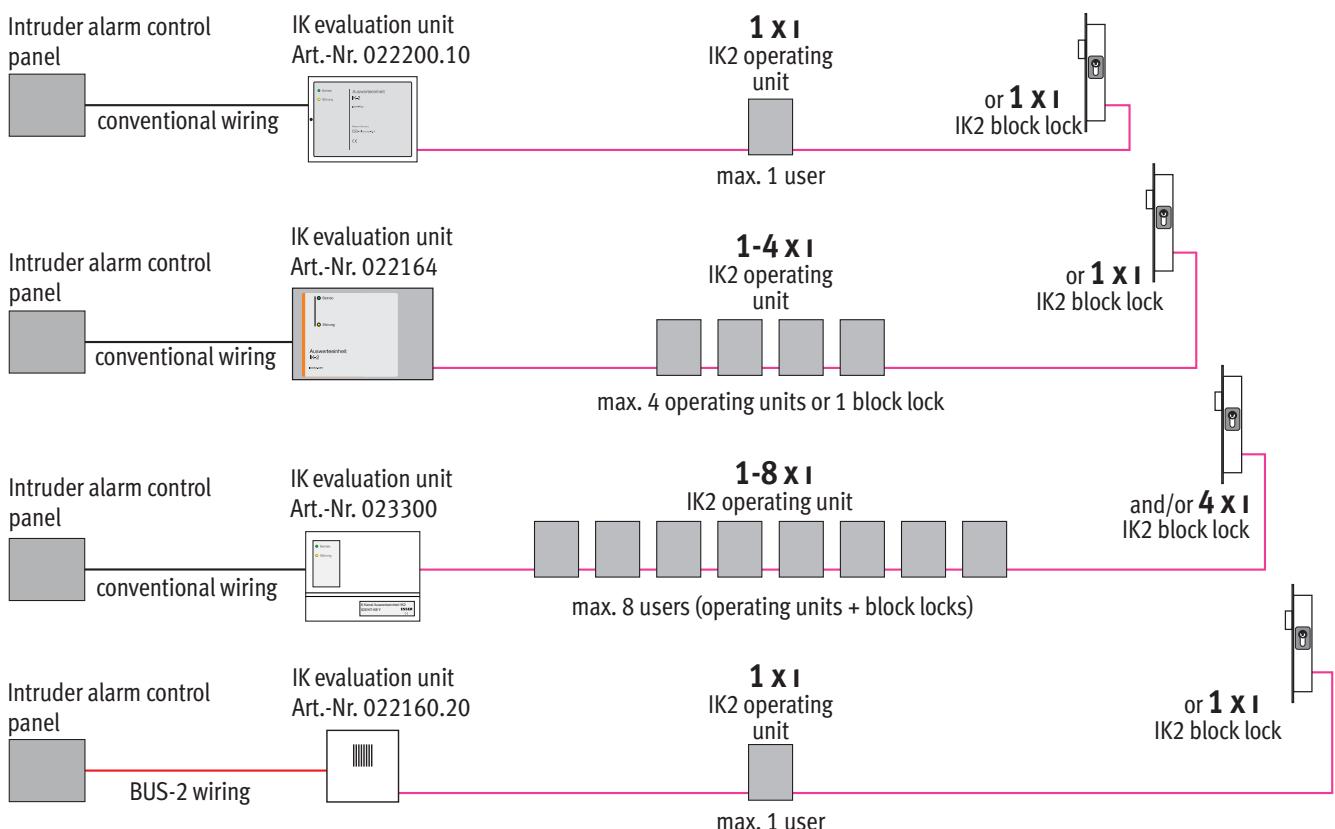
IDENT-KEY offers a combination of mechanical/electromechanical locking technology and electronic data and information transmission.

The functional principle of IDENT-KEY is based on a contactless data carrier, in which the data, information and energy transmission takes places free of wear and contactless via the medium air.

The IDENT-KEY system has been designed specifically for arming/disarming alarm system, if in addition to the standard arming functions an identification including recording is necessary.

Since the evaluating unit is located inside the secured area, mechanical and electric tamper attacks on the block lock or the reader have no effect on arming/disarming.

In addition, the IDENT-KEY evaluating unit for BUS-2 (022160.20) in connection with an intrusion detection system allows an access control to be set up for a single door. The type of programming of the application-related data depends on the evaluating unit in question.



Overview

 Evaluation units

022160.20



IK2 evaluating unit for BUS-2


 Approval

G196094 (EMT), Class C; Z199704 (Access Control), Class A

The evaluating unit has been designed for connection to control centres equipped with the BUS-2 system. It is suitable for setting up arming/disarming and/or door release functions.

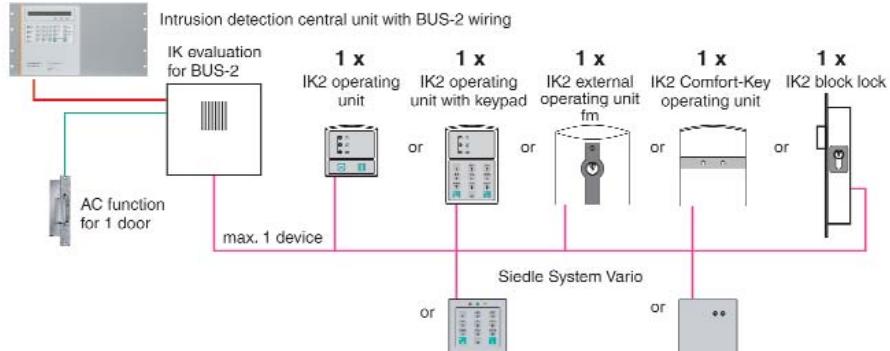
Per evaluating unit, one IDENT-KEY block lock or one IDENT-KEY operating unit can be connected. The evaluating unit also contains two relay outputs for activation, for example, of a locking element.

When using the locking element 1 or 3, it is also possible to evaluate the bolt end position.

The application-specific data are programmed directly via the operating units (central unit keyboard and display) of the intrusion detection central units.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at rated voltage	75 mA no-load current, without ext. UB
Current consumption at rated voltage	0.5 mA no-load current (BUS-2), with ext. UB
Additional current consumption	17 mA, relay pulled up
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 DIN 40050	IP 30
Housing	Plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	grey-white, similar to RAL 9002



Planning example

022200.10



Conventional IK2 evaluating unit

**VdS Approval****G198013 (EMT), Class C**

One IDENT-KEY block lock or one IDENT-KEY operating unit can be connected to the evaluating unit.

An integrated real-time clock and an event memory allow time-related recording of the individual locking times and key numbers. The last 180 operations remain stored.

The IDENT-KEY evaluating unit has a code memory in which 127 code carriers (keys) can be managed.

To allocate the arming entitlements, up to 15 time zones can be defined either as date programs or as recurring weekly patterns. 6 time zones can be allocated to each of the 127 code carriers. In connection with the weekly programming, 16 public holidays can additionally be defined.

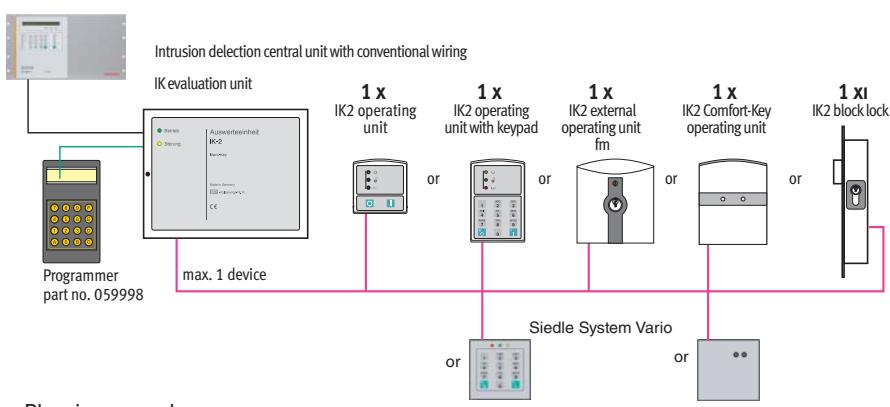
Also available are outputs for "Continuous alarm", "Reception", "Disarmed" and "Ready", which can be connected via the IDENT-KEY operating unit. The connection to an intrusion detection central unit is effected in conventional wiring to the block lock input.

The entire programming and the inquiry of the event memory is done by the mobile programming device.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at rated voltage	65 mA, disarmed state
Current consumption at rated voltage	50 mA, armed state
Additional current consumption	60 mA, read process
Environmental class according to VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40050	IP 40
Housing	Plastic
Dimensions (W x H x D)	196 x 142 x 32 mm
Colour	grey-white, similar to RAL 9002

Article to be discontinued by 31.12.2006, replacement article IK3 evaluating unit 023310

**Accessories:**

059998 Mobile programming device

022164



Conventional IK2 evaluating unit in the sheet steel housing



VdS Approval

G196093 (EMT), Class C

One IDENT-KEY block lock or up to four IDENT-KEY operating units can be connected to the evaluating unit. The IDENT-KEY evaluating unit has a code memory for 127 code carriers (key), power-failure-proof program memories and an event memory in which the last 180 operations remain stored.

To allocate the arming entitlements, up to 15 time zones can be defined either as date programs or recurring weekly patterns, as desired, from which up to 6 time zones can be allocated to each of the 127 code carriers. The control as a function of time is done via an integrated real-time clock with date and automatic summertime/wintertime changeover which can be disabled. In connection with the weekly programming, 16 public holidays can additionally be defined.

Also available are outputs for "Continuous alarm", "Reception", "Disarmed" and "Ready", which can be connected via the IDENT-KEY operating unit.

The connection to an intrusion detection central unit is effected in conventional wiring via the block lock input. The entire programming and the inquiry of the event memory is done by the mobile programming device.

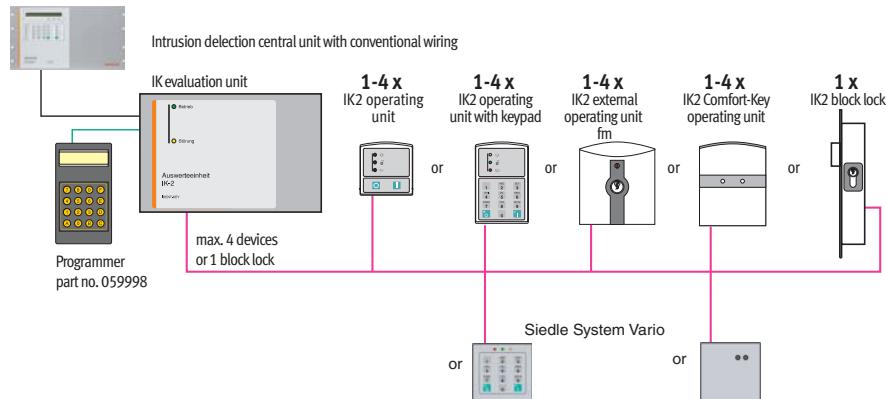
Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at rated voltage	50 mA, disarmed state
Current consumption at rated voltage	35 mA, armed state
Additional current consumption	60 mA, read process
Additional current consumption	120mA, block coil (in IK block lock)
Environmental class according to VdS	II
Type of protection DIN 40050	IP 30
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	230 x 155 x 90 mm
Colour	grey-white, similar to RAL 9002



No room for emergency power supply

Article to be discontinued by 31.12.2006, replacement article IK3 evaluating unit 023310



Planning example

Accessories:

059998 Mobile programming device

023300



8-channel evaluating unit K2

**Performance Features**

- 8 input channels for up to 8 IK2 switching devices
- Arming/disarming of max. 4 main zones
- Hold-up alarm
- Use as bank personal protection system possible in connection with an intrusion detection central unit
- Access control of 4 doors
- Emergency opening function
- Failure-proof real-time clock
- 15 time zones / 16 public holidays can be programmed
- Event memory
- 4 relay outputs for programmable special functions
- Management of 256 IK information carriers
- Relay output channels 1 to 8: potential-free switchover contact
- IDENT outputs 1 to 4 and fault: potential-free NO contact

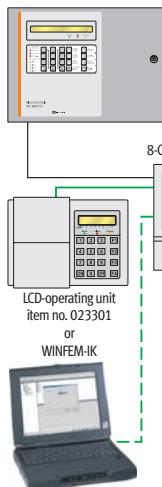
Up to 8 IK2 operating units can be connected to the evaluating unit. For arming/disarming the up to 4 possible main zones, as an alternative, IK block locks can be used.

An integrated real-time clock and an event memory allow time-related recording of the individual functions. The last 185 operations remain stored.

The connection to an intrusion detection central unit is effected in conventional wiring. The programming of the evaluating unit and the read-out of the event memory is either done via the LCD operating unit 023301 or comfortably via the programming software WINFEM-IK included in the delivery.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Switching voltage	30 V AC/DC
Current consumption at rated voltage	240 mA (disarmed); 65 mA (armed)
Current consumption	additionally max. 8 x 60 mA (read process using operating unit); max. 4 x 120 mA (read process using block lock); max. 110 mA (LCD operating unit)
Switching current	1 A (relay output); 0.5 A (IDENT outputs)
Type of protection DIN 40050	IP 30
Environmental class according to VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-20 °C to +60 °C
Dimensions (W x H x D)	255 x 207 x 60 mm
Colour	grey-white, similar to RAL 9002



Intrusion detection central unit conventional wiring

Total max. 8 users (operating units + block locks)

Planning example

One switching device each can be allocated to each input:

- Channels 1 to 4: IK2 operating unit with or without keyboard or IK2 block lock
- Channels 5 to 8: IK2 operating unit with or without keyboard

023301



LCD operating unit for 8-channel evaluating unit IK2



Operating unit for programming the evaluating unit and for read-out of the event memory. As an alternative to the operating unit, the programming software WINFEM-IK can be used.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at rated voltage	Buzzer 5 mA; Luminous background 15 mA
Closed-circuit current consumption	60 mA
Current consumption per LED	8 mA
Type of protection DIN 40050	IP 40
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)	190 x 129 x 44 mm
Colour	grey-white, similar to RAL 9002

022198



Comfort-Key IK2



Approval

G102020 (EMT), Class C

The Comfort-Key operating unit serves as switching device for arming/disarming intrusion detection systems in combination with IK2 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 are only activated when enabled. The optical and acoustic displays can be activated either from an intrusion detection central unit or by the IDENT-KEY evaluating unit.

The reading mode of the operating 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.

Features

- Comfortable arming/disarming
- High sabotage security
- Contactless - therefore free of wear
- Ident data carrier in the form of: ID card; ID key ring; ID key cap
- quick and easy to mount
- LED displays for enable, alarm, disarmed and armed
- Integrated buzzer
- For indoor and outdoor use for surface mounting

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at rated voltage	25 mA
Additional current consumption	10 mA, each LED
Additional current consumption	10 mA, buzzer
Operating temperature range	-20 °C to +50 °C
Storage temperature range	-30 °C to +60 °C
Type of protection DIN 40050	IP 65
Environmental class according to VdS	III
Reading distance	up to 7 cm (key ring 023100)
Dimensions (W x H x D)	87 x 110 x 28 mm
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 (EMT), Class C; Z199502 (Access Control), Class B

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.

Features

- Comfortable arming/disarming
- High sabotage security
- Contactless - therefore free of wear
- Ident data carrier in the form of: ID card; ID key ring; ID key cap
- 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	20 mA, during the read process
Additional current consumption	20 mA, LED
Additional current consumption	10 mA, buzzer
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40050	IP 44 (with correctly mounted cylinder)
Environmental class according to VdS	III
Reading distance	max. 6 cm
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.

Accessories:

- | | |
|--------|-------------------|
| 028034 | VdS half cylinder |
| 028031 | Half cylinder |

022189

 Decorative film for IK2 operating unit 022183


Spare part

 5 units

022194

 IK2 operating unit
**Performance Features**

- Comfortable arming/disarming
- High sabotage security
- Integrated buzzer
- LED displays
- For indoor and outdoor use for surface mounting



VdS Approval

G196097 (EMT), Class C; Z199500 (Access Control), Class B

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 DIN 40050 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 central unit or from the IDENT-KEY evaluating unit, as desired.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	4 mA
Additional current consumption	40 mA, during the read process
Additional current consumption	10 mA, each LED
Additional current consumption	75 mA, buzzer
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40050	IP 65
Environmental class according to VdS	III
Reading distance	max. 10 cm
Length of connecting cable	6.0 m
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) |
| 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 film for IK2 operating units 022194 and 022195


Spare part



5 units

022195.10



IK2 operating unit, contactless, with numeric keypad

**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

**G196096 (EMT), Class C; Z199002 (Access Control), Class C**

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 to DIN 40050 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 central unit or from the IDENT-KEY evaluating unit, as desired.

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	40 mA, during the read process
Additional current consumption	10 mA, each LED
Additional current consumption	75 mA, buzzer
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40050	IP 65
Environmental class according to VdS	III
Reading distance	max. 10 cm
Length of connecting cable	6.0 m
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) |
| 022197 | Adapter base for IK2 operating unit 022195 |

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 / 026390.00 / 026380.00 / 026384.00 / 026389.00 / 026064 / 026481 / 026390.10 / 026491 / 026492 / 026493 / 026494

Fits intrusion detection technology 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
<p> If an already mounted operating element 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.</p>	

 IK2 operating units for Siedle Vario system
**Performance Features**

- Comfortable arming/disarming
- High sabotage security
- available with or without keyboard
- integrated buzzer
- LED displays
- for indoor and outdoor use
- modern design
- available in 4 colours
- for integration in Siedle "Vario"

IK2 operating unit for connection to IK2 or IK3 evaluating units.
They are operated via the contactless card system IK2 or proX1, in the designs with keyboard also via keyboard input.
2 dual LEDs (ready/alarm and disarmed/armed) are available for optical display.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	25 mA
Current consumption	10 mA, in addition each LED
Current consumption	10 mA, buzzer
Operating temperature range	-25 °C +60 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40050	IP 54 (in the built-in state)
Environmental class according to VdS	III
Reading distance	3 cm, key ring
Reading distance	7 cm, ID card

022210

IK2 operating unit, contactless, white



G199040 (EMT), Class C; Z199501 (Access Control), Class B

022211

IK2 operating unit, contactless, titanium

022212

IK2 operating unit, contactless, silver

022213

IK2 operating unit, contactless, graphite-brown

022215

IK2 operating unit, contactless with keypad, white



G103128 (EMT), Class C

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	40 mA
Current consumption per LED	10 mA
Buzzer current consumption	75 mA
Protection class according to DIN 40050	IP 54 (in the built-in state)
Environmental class according to VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Reading distance	Key ring up to 3 cm; ID card up to 7 cm

- 022216  IK2 operating unit, contactless with keypad, titanium

- 022217  IK2 operating unit, contactless with keypad, silver

- 022218  IK2 operating unit, contactless with keypad, graphite-brown

IK2 block lock

- 022220  IK2 block lock

 Approval G 196098 (EMT), Class C

The IDENT-KEY block lock receives the code of the key used via the rosette. Internal sensors continuously monitor the position of the keybit or the block lock bar. The information collected during monitoring is converted into serial data in the integrated electronic module and transferred to the evaluation unit. The locking process is only possible when a release signal is active at the block lock.



Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at rated voltage	6 mA
Additional current consumption	120 mA
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Installation position	any
Environmental class according to VdS	III
Type of protection DIN 40050	IP 30
Weight	approx. 700 g, block lock without locking cylinder, but with 5m of connecting cable
Material	Zinc die-casting
Housing dimensions (W x H x D)	16 x 210 x 40 mm, without face plate
Face plate (W x H x D)	20 x 257 x 3 mm
Bar (L x W)	11 x 40 mm
Dead bolt throw	15 mm
Striking plate (W x H x D)	130 x 25 x 3 mm
Keybit position of the profiled cylinder	90° right or 90° left (depending on door catch)

 See dimensional drawing in chapter Switching devices / Lock program / Dead bolt lock with monitoring function

Accessories:

022112	Backset extension from 25 to 50 mm
022113	Backset extension from 25 to 65 mm
022114.01	Extension of special backset from 25 mm to 35 mm
022114.02	Extension of special backset from 25 mm to 55 mm
022114.03	Extension of special backset from 25 mm to 80 mm
022114.04	Extension of special backset from 25 mm to 100 mm
022121	Set for face plate special sizes 16 mm face plate and 25 mm face plate

Accessories for IK2 block lock

- 022167  IK2 rosette



Rosette with combined transmission and reception antenna. A shielding plate on the back reduces the interferences from the ground. A flat cable with plug is used for connection to the block lock.

Technical Data

Colour	black, similar to RAL 9005
--------	----------------------------

022169



IK2 rosette



Rosette with combined transmission and reception antenna. A shielding plate on the back reduces the interferences from the ground. A flat cable with plug is used for connection to the block lock.

Technical Data

Colour

grey-white, similar to RAL 9002

022180



Spacer for IK rosette



Technical Data

Thickness

2.5 mm

Colour

black, similar to RAL 9005

Several spacers can be used

5 units

022182



Spacer for IK rosette



Technical Data

Thickness

2.5 mm

Colour

grey-white, similar to RAL 9002

Several spacers can be used.

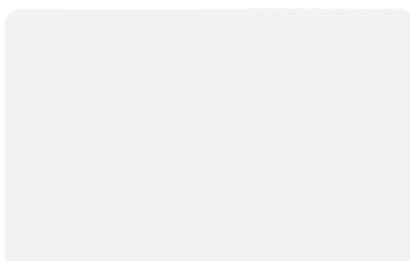
5 units

► ID carriers for IK2

026378



ID card for IK3, without label



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.

027850 Protective cover

026375



ID card for IK3, without label



ID card for proximity readers with alternating code method, printed

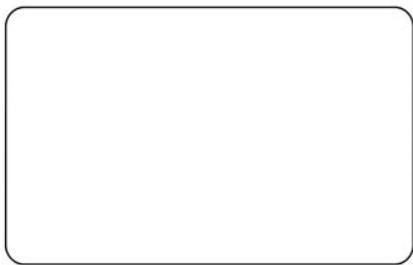
With Honeywell logo for IK3 alternating code method.

027850 Protective cover

026377



ID card for IK3, without label with magnetic stripe



ID card for proximity readers with alternating code method, without label with magnetic stripe uncoded

Printable, with magnetic stripe for IK3 alternating code method



027850

Protective cover

026376



ID card for IK3, with label and magnetic stripe



ID card for proximity readers with alternating code method, with label and magnetic stripe uncoded, printed

With Honeywell logo and magnetic stripe for IK3 alternating code method.



027850

Protective cover

023101



IK3 key ring with ring



IDENT-KEY key ring with ring coded for alternating code method

Contactless ID information carrier. For use with IK2, access control and time recording. The individual coding of the chip makes each ring unique. This principle makes manipulations virtually impossible.

This key ring makes it easy to use systems for contactless readers such as IK3 electro-mechanical locks and the corresponding readers of access control and time recording systems. You just place the key against the reading station for contactless readers.

026368.00



Blank ID card



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
Bending and torsional properties
Dimensions (W x H x D)

-35 °C to +50 °C
according to ISO 7816-1
85.60 x 53.98 x 0.76 mm (according to DIN ISO)



When used without the alternating code method, IK2 cards can also be operated in the IK3 system.

Accessories:

027850 Protective cover, 5 units

026370.00



Printed ID card



For proX1, proX2 and IK2 proximity readers.
Including Honeywell logo.

Technical Data

Operating temperature range
Bending and torsional properties
Dimensions (W x H x D)

-35 °C to +50 °C
according to ISO 7816-1
85.60 x 53.98 x 0.76 mm (according to DIN ISO)

Accessories:

027850 Protective cover, 5 units

026371.00



Printed ID card with uncoded magnetic stripe



For proX1, proX2 and IK2 proximity readers.
With magnetic stripe (uncoded), with Honeywell logo.

Technical Data

Operating temperature range
Bending and torsional properties
Dimensions (W x H x D)

-35 °C to +50 °C
according to ISO 7816-1
85.60 x 53.98 x 0.76 mm (according to DIN ISO)

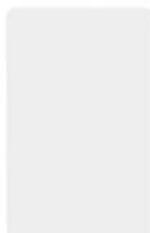
Accessories:

027850 Protective cover, 5 units

026372.00



Blank ID card with uncoded magnetic stripe



For proX1, proX2 and IK2 proximity readers.
With magnetic stripe (uncoded).

Technical Data

Operating temperature range
Bending and torsional properties
Dimensions (W x H x D)

-35 °C to +50 °C
according to ISO 7816-1
85.60 x 53.98 x 0.76 mm (according to DIN ISO)

Accessories:

027850 Protective cover, 5 units

023100



ID key ring



For proX1, proX2 and IK2 proximity readers.
Contactless ID information carrier. For use with IK2, access control and time recording.
The individual coding of the chip makes each ring unique. This principle makes manipulations virtually impossible.
This key ring makes it easy to use systems for contactless readers such as IK2 electro-mechanical locks 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.
When used without the alternating code method, IK2 key rings can also be operated in the IK3 system.

022185

 ID key cap

For proX1, proX2 and IK2 proximity readers. They can be used with IK3 readers without alternating code.

The keys belonging to the system are fitted with a key cap. The module integrated in the cap has already been provided by the factory with an electronic coding. For use with IK2, access control and time recording.

The coded key cap is read wirelessly by the operating unit via the medium air.

The key cap is suitable for round 22.5 mm to 25 mm key heads and for rectangular key heads.

Technical Data

Operating temperature range	-20 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40050	IP 67
Environmental class according to VdS	II
Dimensions (W x H x D)	35 x 39 x 8 mm
Colour	black, similar to RAL 9005

 Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

022172

 Gluing set

Two-component adhesive for bonding the key caps.

027850

 Protective cover for EC, ID cards

 Further badge accessories available upon request.

 5 units

Locking element SLIM-LOCK, 1 and 3

019038.10



Electro-mechanical locking element SLIM-LOCK

NEW**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

 Approval

G 104039 (EMT), 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 the control unit)
Operating voltage	max. 9 V DC (for test purposes only)
Activation time	max. < 2 sec.
Closed-circuit current	0 mA
Current consumption	when activated <200 mA (average for about 0.5 sec)
Bolt locking time	< 25 ms
Bolt path	>12 mm
Bolt shearing force	> 1 kN lateral (with door gap of max. 4 mm)
Installation position	any
Cable connection	Length 6 m, Ø < 2.5 mm
Type of protection DIN 40 050	IP 65 in the built-in state
Environmental class according to VdS	III
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (Ø x L)	Dimensions: 14 x 50.2 mm
Dimensions (W x H)	Flange: 16 x 41 mm



The IK3 evaluating unit 023312.10, conventional IK3 evaluating unit 023310 and the conventional control unit 019039 can be used as control unit.
1 SLIM-LOCK can be connected to all control unit.

Article available from 01.09.2006 as replacement for 019038

019039



Conventional control unit SLIM-LOCK, surface-mounted

 Approval

G105132 (EMT), Class C

This control unit makes it possible to use a SLIM-LOCK locking element in conventional connection technology. The control unit is activated from an intrusion detection central unit in the same way as the locking elements 1 or 2 are used.

019030.20

**Electro-mechanical locking element 1 plus****VdS Approval****G195097 (EMT), Class C**

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.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption in no-load operation	4 mA
Average current consumption	approx. 130 mA, max. 0.6 sec.
Current load-carrying capacity	Outputs: max. 20 mA (high active)
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	III
Installation position	any
Cable length	4 m
Dimensions (W x H x D)	18 x 140 x 32 mm
Locking bolt	ø 8.0 mm (replaceable)
Locking bolt path	at least. 10 mm
Face plate	Standard dimension: 20 x 2 x 188 mm (replaceable)



Counter unit with flange 019022; threaded sleeve 019020

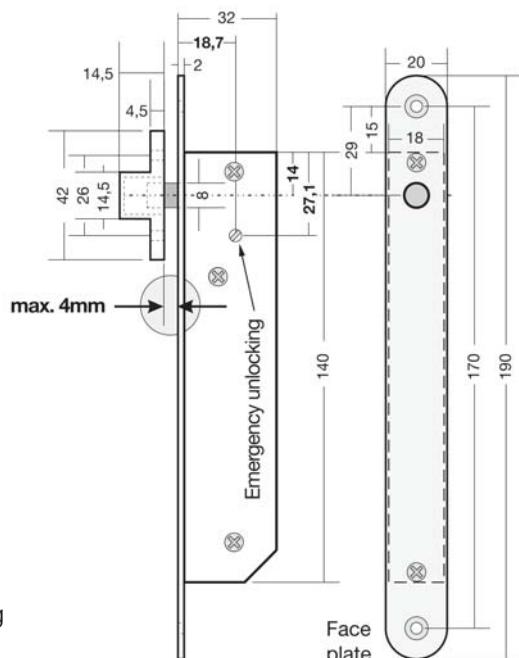
Performance Features

- Simple mounting in door frame with counter unit in door leaf
- Activation dynamically or statically
- Electric and mechanical emergency locking possible
- Semiconductor outputs bolt end positions available

019033

**Electro-mechanical locking element SE 1 plus / MK****VdS Approval G195097 (EMT), Class C; G103521 (intrusion detection technology), Class B for MK**

Same as article 019030.20, but with integrated magnetic contact for opening monitoring without additional contact.



019032



Electro-mechanical locking element 3



VdS Approval

G104003 (intrusion detection technology), Class C; G104503 (intrusion detection technology), Class B for MK; Z104003 (access control system), Class C

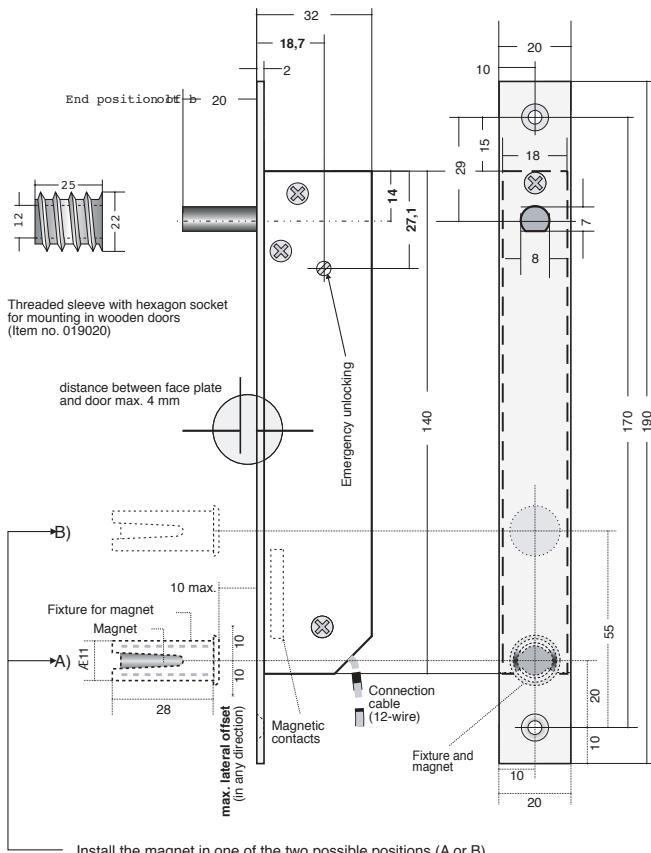
The basic functions of the motorised locking element 3 are the same as those of the locking element 1 plus with magnetic contact (019033). Since it uses a steel bolt, it is moreover approved for use as access control final control element.

Technical Data

Operating voltage U_b	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at U_ext.=12V DC	typ. 4.5 mA
Average current consumption	typ. 0.2 A (approx. 1 sec.)
Current load-carrying capacity	Outputs: max. 50 mA (high active)
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-40 °C to + 85 °C
Environmental class according to VdS	III
Installation position	any
Cable length	4 m
Locking bolt	Steel, ø 8.0 mm
Locking bolt	3 kN (shearing force lateral)
Locking bolt path	20 mm
Face plate	Standard dimension: 20 x 2 x 190 mm (magnetic non-conducting)
Dimensions (W x H x D)	18 x 140 x 32 mm (without face plate)

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



Dimensions (mm)

 Accessories for locking elements 1 and 3

019030.10



Replacement locking bolt for locking element 1

 2 units
INPUT TYPE

019020



Threaded sleeve

**Technical Data**

Ø internal	12 mm
------------	-------

 5 units
INPUT TYPE

019022



Counter unit with flange

**Technical Data**

Ø internal	12 mm
------------	-------

 5 units
INPUT TYPE

019023



Counter unit with flange

**Technical Data**

Ø internal	15 mm
------------	-------

 5 units
INPUT TYPE

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 units

019035


Special face plate

Technical Data

Width	18 mm
-------	-------

 Not suitable for locking elements with magnetic contact.

 2 units

019036


Special face plate

Technical Data

Width	24 mm
-------	-------

 Not suitable for locking elements with magnetic contact.

 2 units

019028


Mounting aid


For functional control during mounting; aid for exact positioning of the bolt counter unit.



Electro-mechanical locking element 2

019031



Electro-mechanical locking element 2



G199039 (EMT), Class C

The electro-mechanical locking element prevents access to the armed zone of an intrusion detection system.

The locking element 2 is built into the door frame instead of the previous striking plate. Upon actuating the door lock, the locking bar will move into striking plate, necessarily actuating the lever mechanics of the locking element, causing the the locking bolt to move out and lock the door leaf. When the intrusion detection system is disarmed, the bolt lock will be reset, allowing the door to be opened.

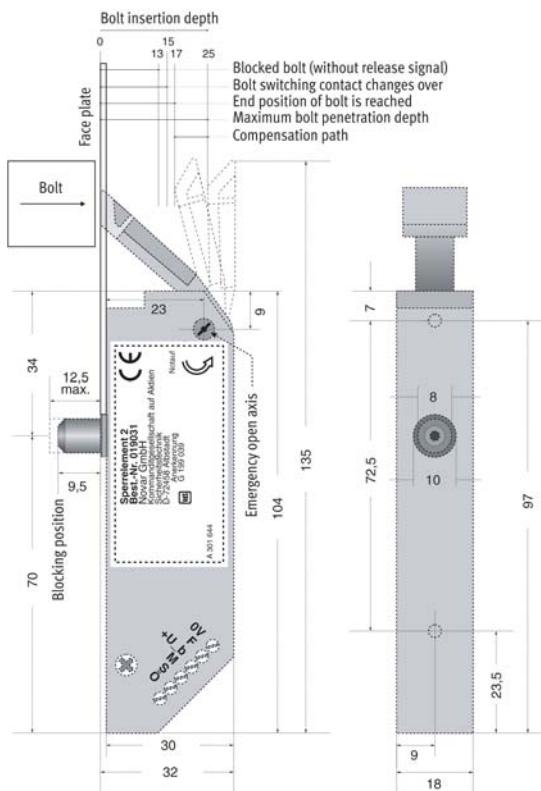
Performance Features

- Simple mounting in door frame (also later on)
- Simple electrical connection through screw-type fastening
- For use with door including right- or left-hand stop
- Zero current in bolt end positions
- Emergency unlocking possible from both sides

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Coil resistance	60 Ohm
Closed-circuit current	0 mA
Enable current	150 mA to 250 mA (depends on operation during switching time only)
Activation current	3.8 mA to 6.5 mA (depends on operation during switching time only)
Environmental class according to VdS	III
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Installation position	given by door lock
Locking bolt	replaceable
Immersion depth of lock bolt	max. 25 mm
Dimensions	12 mm (path)
Dimensions (Ø)	8.0 mm
Housing dimensions (W x H x D)	18 x 140 x 32 mm

Article to be discontinued by 31.12.2006



Dimensional drawing (dimensions in mm)

 Accessories for locking element 2

019031.10

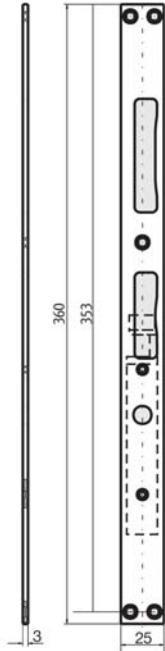


Replacement locking bolt for locking element 2

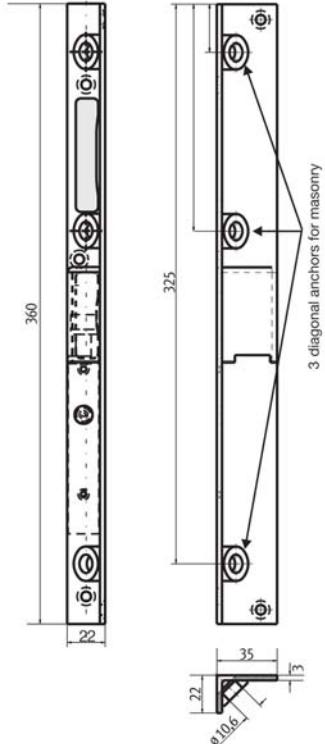

 2 units

 Striking plates

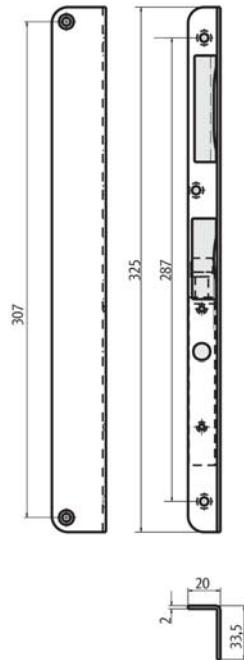
019015



019016



019018



Dimensional drawing (dimensions in mm)

019015



Striking plate, flat



For use on right- and left-hand side.

Technical Data

Front face dimension	25 mm
Dimension wide side	360 mm
Dimension plate thickness	3 mm

Article to be discontinued by 31.12.06

019016

 Angled striking plate, right, intrusion-resistant Approval M199327**Technical Data**

Front face dimension	0.20 x 325 mm
Dimension wide side	33.5 x 325 mm
Dimension plate thickness	2 mm

Article to be discontinued by 31.12.06

019017

 Angled striking plate, left, intrusion-resistant Approval M199327**Technical Data**

Front face dimension	22 x 360 mm
Dimension wide side	35 x 360 mm
Dimension plate thickness	3 mm

Article to be discontinued by 31.12.2006

019018

 Angled striking plate, right**Technical Data**

Front face dimension	20 x 325 mm
Dimension wide side	33.5 x 325 mm
Dimension plate thickness	2 mm

Article to be discontinued by 31.12.06

019019

 Angled striking plate, left**Technical Data**

Front face dimension	20 x 325 mm
Dimension wide side	33.5 x 325 mm
Dimension plate thickness	2 mm

Article to be discontinued by 31.12.2006

► Key-operated switch SS 90



VdS approval G 193724, VdS Class A

The key-operated switch SS 90 consists of a zinc die-cast housing painted white (similar to RAL 9016), electric tear-off and cover monitoring, core drawback protection for half cylinder integrated in the housing cover, optic control lights for alarm and armed/disarmed and a buzzer as acoustic acknowledgement display, either as permanent or touch contact version, as desired.

Technical Data

Operating voltage	8 V DC to 18 V DC
Nominal voltage	12 V DC
Display	1 red LED, 1 yellow LED
Alarm device	Buzzer 60 dB(A) 1 m
Current consumption per LED	Approx. 20 mA
Buzzer current consumption	Approx. 5 mA
Switching contact	30 V DC, 500 mA, S1, S4 armed/disarmed
Sabotage Contact	30 V DC, 500 mA, S2 / S3
Ambient temperature	-25 °C to +70 °C
Storage temperature	-30 °C to +75 °C
Protection type	IP 54
Housing	Zinc die-casting
Colour	white, similar to RAL 9001
Weight	approx. 1,250 g
Housing dimensions (W x H x D)	88 x 142 x 54 mm, surface-mounted
Dimensions (W x H x D) including decorative frame	124 x 182 x 54 mm, flush-mounted
Dimensions (W x H x D) box	105 x 155 x 45 mm, flush-mounted



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.

Accessories:

218781 Half cylinder

154428



Key-operated switch SS 90



G193724 (EMT), Class A



VdS approval in connection with protection against drilling 154437 only.



Without half cylinder

154430



Key-operated switch SS 90



G193724 (EMT), 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.

154438



Flush-mounted wall mounting kit



For key-operated switch SS 90.

Technical Data

Dimensions (W x H x D)

106 x 154 x 47.5 mm

 Decorative frame zinc die-casting; flush-mounting box

154439



Hollow-wall mounting kit



For key-operated switch SS 90.

 Decorative frame zinc die-casting; mounting material

790725



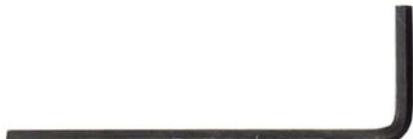
Safety screws

 10 units

797027



Special Allen key



 **Block switch**

021130

 **Surface-mounted block switch with mechanical lock disabling**


For use in the standard and VdS central unit program. Points of support for monitoring resistors available. Designed with sabotage contact 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

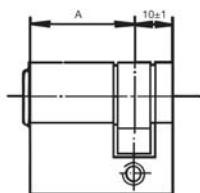
Dimensions (W x H x D) 77 x 122 x 55 mm

 The length A of the locking cylinder (see diagram) must be 30 mm.

 Without half cylinder

Accessories:

028032 Half cylinder



021131

 **Flush-mounted block switch with mechanical lock disabling**


For use in the standard and VdS central unit program. Points of support for monitoring resistors available. Designed with sabotage contact 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

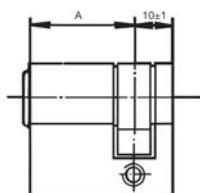
Dimensions (W x H x D) 77 x 122 x 55 mm

 The length A of the locking cylinder (see diagram) must be 30 mm.

 Without half cylinder

Accessories:

028032 Half cylinder



Safety operating units

012525

||||| Surface-mounted outdoor safety operating unit including logic



VdS Approval

G100708 (EMT), Class A

The outdoor safety operating unit consists of a stable die-cast housing. The housing top is provided with an electro-mechanical monitoring against drilling. This prevents any unauthorised access to the integrated electronics. Also available are a mechanical tear-off protection and a cover monitoring device.

The "ON-OFF" key position is scanned by microsensors. The switching contacts are galvanically separated from the lines to the central unit by optic relays.

The built-in buzzer and the two-colour LED (red / green) are activated by the connected intrusion detection central unit via suitable acknowledgment signals (logic).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at rated voltage	2.5 mA, closed-circuit current
Current consumption at rated voltage	22 mA, max. current of arming/disarming
Environmental class according to VdS	III
Type of protection DIN 40050	IP 44
Operating temperature range	-25 °C to 55 °C
Storage temperature range	-40 °C to +80 °C
Dimensions (W x H x D)	85 x 123 x 56 mm
Colour	grey-white, similar to RAL 9002

The operating unit 012525 is designed for half cylinders with keybit position 90° right. The length A should be 31 mm to 32.5 mm. We recommend using half cylinder 028033.

012526

||||| Surface-mounted outdoor safety operating unit excluding logic



VdS Approval

G100708 (EMT), Class A

The outdoor safety operating unit consists of a stable die-cast housing. The housing top is provided with an electro-mechanical monitoring against drilling. This prevents any unauthorised access to the housing. Also available are a mechanical tear-off protection and a cover monitoring device.

The operating does not need a separate operating voltage. This makes it especially suitable for applications in which no permanent operating voltage is available or for battery-operated devices which should not be subjected to a load in the form of a permanent current consumption (e.g. radio door module).

The "ON-OFF" key position is scanned by microsensors. The built-in buzzer and the red LED are activated by the connected intrusion detection central unit.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption max.	22 mA (during arming/disarming)
Environmental class according to VdS	III
Type of protection DIN 40050	IP 4
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-40 °C to +80 °C
Dimensions (W x H x D)	85 x 123 x 56 mm
Colour	grey-white, similar to RAL 9002

The operating unit 012525 is designed for half cylinders with keybit position 90° right. The length A should be 31mm to 32.5 mm. We recommend using half cylinder 028033.

Accessories:

028033 Half cylinder

012520



Flush-mounted outdoor safety operating unit excluding logic

**VdS Approval****G196706 (EMT), Class A**

The outdoor operating unit consists of a stable cast housing and a front plate with electro-mechanical 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 central unit.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	17 mA, closed-circuit current
Current consumption	40 mA, max. current (switching operation)
Environmental class according to VdS	III
Type of protection DIN 40050	IP 44
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-40 °C to +80 °C
Length of connecting cable	6 m
Installation	70 mm
Dimensions (W x H x D)	86 x 107 x 27 mm, front
Dimensions (Ø x T)	70 x 70 mm, housing



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.

010125



BUS-1 key-operated switch operating unit

**VdS Approval****G102043 (EMT), Class C**

The BUS-1 safety operating unit is housed in a stable die-cast housing.

It is suitable for indoor use and has been designed specifically for indoor arming/disarming of intrusion detection systems in BUS-1 technology.

The "ON-OFF" key position is scanned by microsensors.

The built-in buzzer and the LED (red) are activated by the connected intrusion detection central unit via suitable acknowledgment signals via BUS-1.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at rated voltage	2.8 mA, closed-circuit current
Current consumption at rated voltage	6 mA, max. current of arming/disarming
Environmental class according to VdS	II
Type of protection DIN 40050	IP 44
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 123 x 56 mm
Colour	grey-white, similar to RAL 9002



The operating unit 010125 is designed for half cylinders with keybit position 90° right. The length A should be 31 mm to 32.5 mm. We recommend using half cylinder 028033.

Accessories:

028033 Half cylinder

 **Accessories**

012521



Decorative film for outdoor safety operating unit 012520



5 units

012529



Decorative film for operating units 012525, 012526 and 010125



5 units

1

2

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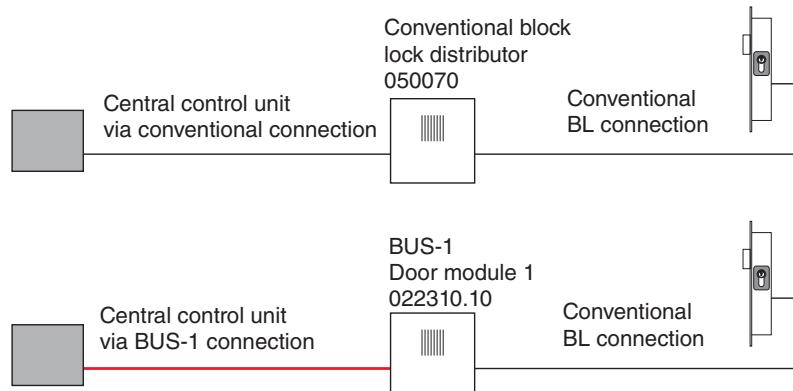
20

 Dead bolt lock with monitoring function - conventional block lock technology - BUS block lock technology

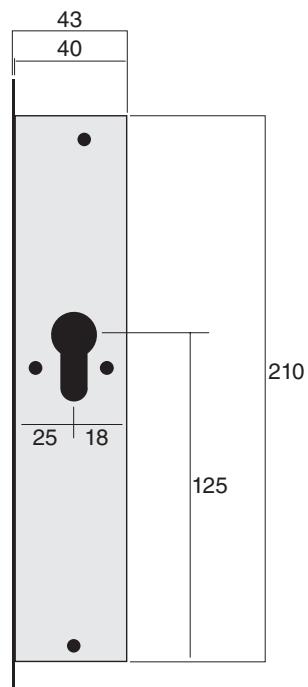
Conventional block lock technology

The overview shows the ways to combine a central control unit with block locks and connections components

- | | |
|--------|----------------------------------|
| 021150 | Dead bolt lock |
| 022099 | Profile BL without B |
| 022100 | Profile BL with B |
| 022102 | Profile BL with E |
| 022150 | Dual bit BL without B |
| 022151 | Dual bit BL with B |
| 022153 | Bual bit BL with B
and 6 keys |

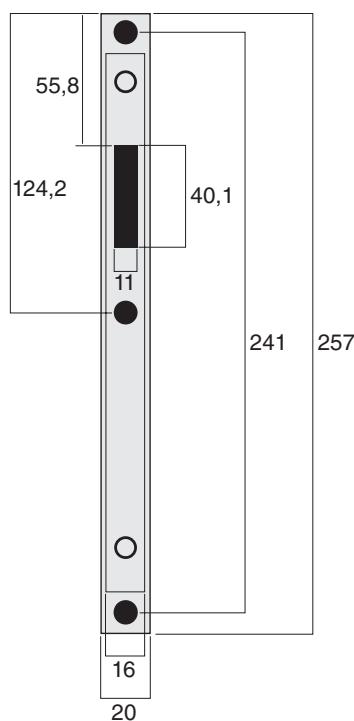
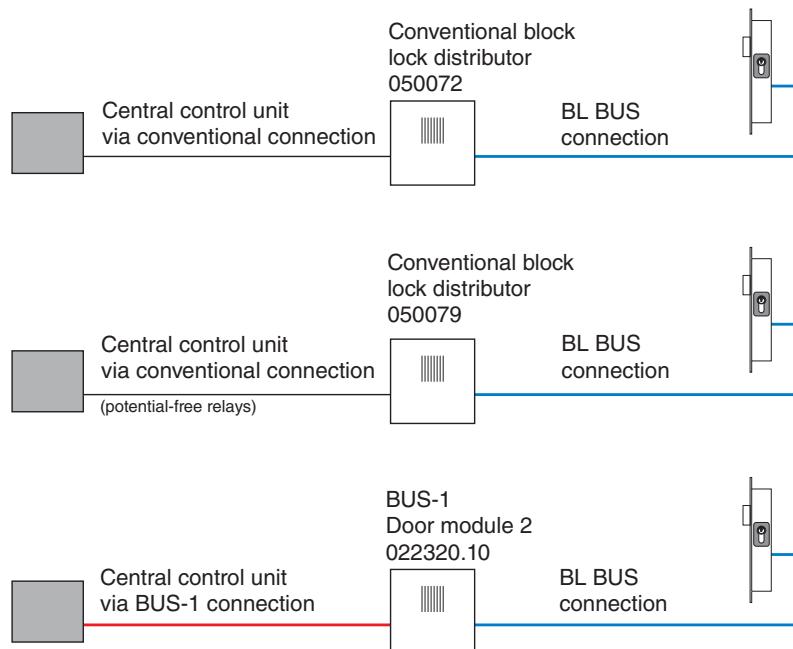


Dimensions drawing
in mm



BUS block lock technology

022101 BUS profile BL with E



*BL = Block lock *B = Drilling protection *E = Electronic drilling monitoring



Dead bolt locks with monitoring function

021150



Dead bolt lock with monitoring function for half cylinders



G189702 (EMT), 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

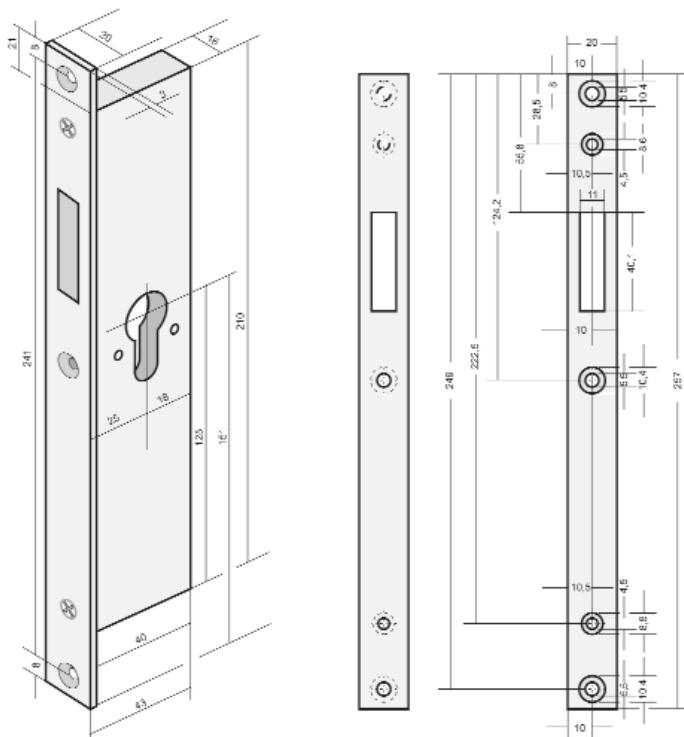
Replacement possible with special face plate sizes 16 mm or 25 mm (standard 20 mm). Variable bolt length by using bolt length extensions.

Technical Data

Switch currents (R-load)	min. 10 mA, max. 100 mA
Electrical life span	min. 1 million cycles at 1 mA / 1.5 V DC
Environmental class according to VdS	III
Type of protection DIN 40050	IP 30, lock, locking cylinder mounted correctly
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Installation position	any
Weight	approx. 700 g, excluding cylinder
Backset	25 mm

Accessories:

- | | |
|-----------|---|
| 050070 | Surface-mounted standard distributor, white |
| 022310.10 | Door module 1 for conventional block lock |
| 022115 | Chrome-coloured safety rosette for standard half cylinder |
| 022117 | Chrome-coloured spacers for 022115 |
| 022115.01 | Gold-coloured safety rosette for standard half cylinder |
| 022122 | Chrome-coloured safety door sign 11 mm |
| 022136 | Chrome-coloured internal escutcheon for profiled cylinder |
| 022112 | Backset extension from 25 to 50 mm |
| 022113 | Backset extension from 25 to 65 mm |
| 022121 | Set for face plate special dimensions 16 and 25 mm |
| 028028 | VdS half cylinder Ikon 5532 |



Dimensions in 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 central unit in conventional wiring technology.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at rated voltage	6 mA
Additional current consumption	120 mA of the block coil
Resistance (block coil)	100 Ohm
Operating mode	100 % duty cycle, configured
Environmental class according to VdS	III
Protection class according to DIN 40050	IP 30, locking cylinder mounted correctly
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Installation position	any
Keybit position of the profiled cylinder	90° right or 90° left, depending on door catch
Connecting cable	5 m long, Ø 5.5 mm, highly flexible 12-wire shielded cable
Backset	25 mm
Face plate (W x H x D)	20 x 257 x 3 mm, steel, galvanised
Bolt (W x H)	11 x 40 mm, galvanised steel, dead bolt throw 15 mm
Striking plate (W x H x D)	130 x 25 x 3 mm, galvanised steel
Housing dimensions (W x H x D)	16 x 210 x 40 mm (standard block lock), zinc die-casting
Housing dimensions (W x H x D)	16 x 210 x 48 mm (dual bit block lock), zinc die-casting

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	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
022136	Chrome-coloured internal escutcheon for profiled cylinder
022112	Backset extension from 25 to 50 mm
022113	Backset 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
050070	Surface-mounted standard block lock distributor/white
022310.10	BUS-1 door module 1 for standard block lock/white, surface-mounted design
022125	Mounting aid for block lock mounting

022099



Standard block lock

 Approval

G198718 (EMT), 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 (EMT), Class B



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 (EMT), Class C



The description and technical data are identical to those of the article 022100, except that additionally an protection against drilling is included.

022102.62

 Standard block lock including electronic protection against drilling

Approval

G194044 (EMT), Class C



For use in intrusion detection central unit 5008.
The description and technical data are identical to those of the former article no. 160629.



Block lock distributor 050070 to fit

022150

 Standard dual bit block lock

Approval

G189525 (EMT), Class B



Fully electronic block lock without mechanical surface protection against drilling for dual bit inserts, consisting of the metal-encapsulated pocket with face plate and connecting cable, includes all mechanical and electronic functional modules.

The fully 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 as main block lock or door lock.

Use of contactless inductive proximity switches for detecting all mechanical operations during the locking process and the monitoring of the housing cover. Variable backset by using backset extensions.



3 keys

022151**||||| |||||** Standard dual bit block lock including protection against drilling**VdS Approval****G189225 (EMT), Class C**

The description and technical data are identical to those of the article 022150, except that tamper monitoring is included in the form of a mechanical all-around protection against drilling.

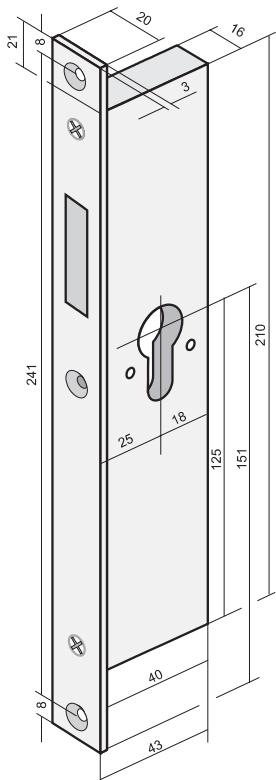
3 keys**022153****||||| |||||** Standard dual bit block lock including protection against drilling**VdS Approval****G189225 (EMT), Class C**

The description and technical data are identical to those of 022151, except that 6 keys are included.

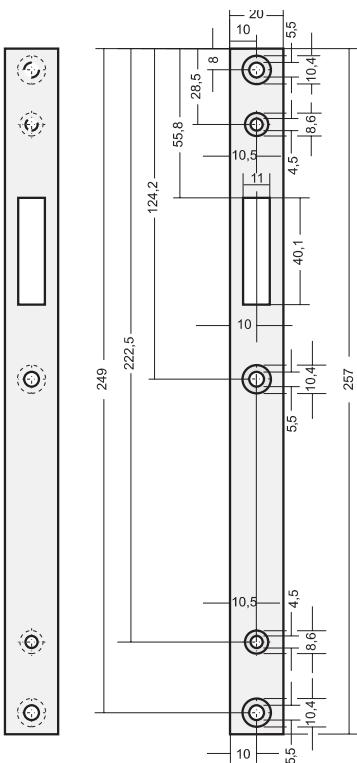
6 keys**160636****||||| |||||** Replacement key for dual bit block lock

For dual bit block lock

Upon request

**BUS block lock**

Dimensions in mm



The BUS block lock system consists, as a functional unit, of the block lock and the distributor. The evaluating module fully integrated in the block lock works bidirectionally via a 3-wire data bus via the connection pcb contained in the block lock distributor. From there, the wiring of the intrusion detection central unit is carried out in conventional wiring technology.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at rated voltage	9 mA
Current consumption	120 mA (block coil)
Resistance	100 Ohm (block coil)
Operating mode	100% duty cycle
Environmental class according to VdS	III
Type of protection DIN 40050	IP 30, locking cylinder mounted correctly
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Installation position	any
Keybit position of the profiled cylinder	90° right or 90° left, depending on door catch
Backset	25 mm
Material	Zinc die-casting (housing)
Material	Steel, galvanised (face plate, bolt, striking plate)
Connecting cable	5 m long, Ø 4 mm, highly flexible 3-wire shielded
Dimensions (W x H x D)	16 x 210 x 40 mm (housing); 20 x 257 x 3 mm (face plate); 130 x 25 x 3 mm (striking plate)
Dimensions (W x H)	11 x 40 mm (bolt)

Article to be discontinued by 31.12.2006**Accessories:**

022115	Chrome-coloured safety rosette
022120	Chrome-coloured core drawback protection rosette 12 mm
022124	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
022136	Chrome-coloured internal escutcheon for profiled cylinder
022112	Backset extension from 25 to 50 mm
022113	Backset 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
050072	Surface-mounted BUS block lock distributor/white
050079	Surface-mounted BUS block lock distributor/white, including relay
022320.10	BUS-1 door module 2 for BUS block lock/white, surface-mounted design
022125	Mounting aid for block lock mounting

022101

 **BUS block lock**
 **Approval****G188081 (EMT), Class C**

The fully electronic block lock consisting of the metal-encapsulated pocket with face plate and connecting cable includes all mechanical and electronic functional modules.

The fully 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.

Use of contactless inductive proximity switches for detecting all mechanical operations of the cylinder, tampering attacks against tear-off, existence of the fastening screw and monitoring of the housing cover.

Tamper monitoring through all-around protection against drilling and integrated protection against drilling of the cylinder core.

Integrated piezo remote testing device for carrying out a functional check of the electronic cylinder monitoring by key press.

Use of a high-impedance armature coil of 100 Ohm with low current consumption of typically 120 mA.

Slots for DIN half cylinders according to DIN standard 50018 or, in the case of VdS systems, according to guidelines form 2183.

Article to be discontinued by 31.12.2006

 **Block lock distributor**

050070

**Standard block lock distributor** **Approval****G190092 (EMT), Class C**

Surface-mounted design, compact block lock distributor including 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
Buzzer current consumption	20 mA
Wiring type	Block lock to distributor = conventional
Wiring type	Distributor to central unit = conventional
Type of protection DIN 40050	IP 40
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)	118 x 118 x 30 mm
Material	Plastic
Colour	grey-white, similar to RAL 9002



Not suitable for BUS block locks.

050072

**BUS block lock distributor****VdS Approval****G188081 (EMT), Class C**

Surface-mounted design, compact block lock distributor including cable link 6 mm, with built-in buzzer for arming acknowledgement. Complete monitoring electronics including individual programming of the monitoring criteria and operating modes as main block lock or door lock.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	10 mA (incl. block lock)
Additional current consumption	20 mA, from handshake transmitter
Wiring type	150 mA, block magnet activated
Wiring type	block lock to distributor = 3-wire BUS
Type of protection DIN 40050	distributor to central unit = conventional
Environmental class according to VdS	IP 40
Operating temperature range	II
Storage temperature range	-5 °C to +45 °C
Dimensions (W x H x D)	-25 °C to +70 °C
Material	118 x 118 x 30 mm
Colour	Plastic
	grey-white, similar to RAL 9002

Article to be discontinued by 31.12.2006

050077.62

**BUS block lock distributor**

Same as 050072, but including terminating resistors for connection to ESSER central units.



Corresponds to the former ESSER article 160640

Article to be discontinued by 31.12.2006

050079

**BUS block lock distributor including relay****VdS Approval****G188081 (EMT), Class C**

Surface-mounted design, compact block lock distributor including cable link 6 mm, with built-in buzzer for arming acknowledgement. Complete monitoring electronics including individual programming of the monitoring criteria and operating modes as main block lock or door lock. The arming/disarming and tamper connections are designed as potential-free relay contacts.

Technical Data

Current consumption	10 mA (incl. block lock)
Additional current consumption	20 mA, from handshake transmitter
Additional current consumption	150 mA, block magnet activated
Wiring type	block lock to distributor = 3-wire BUS
Wiring type	distributor to central unit = conventional
Colour of housing	grey-white, similar to RAL 9002



The block lock distributor allows a BUS block lock to be connected to external control centres.

Article to be discontinued by 31.12.2006

022310.10



BUS-1 door module 1 for conventional block lock connection

 VdS Approval

G194034 (EMT), 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 panels or door code devices or operating device having the same functions can be connected. At the same time, the connection or activation for closed-circuit current, load current door release and impulse door release are integrated. Also included in this overall concept have been inputs for lock release, bolt switching contact and opening contact and an additional tamper input. Each connection can be operated autonomously.

Technical Data

Closed-circuit current	7 mA
Block magnet activated	150 mA

022320.10



BUS-1 door module 2 for BUS block lock connection

 VdS Approval

G197058 (EMT), Class C

This module allows all monitoring criteria available on a door to be connected and processed in a connection unit. A BUS Novar block lock can be connected as arming device. At the same time, the connection or activation for closed-circuit current, load current door release and impulse door release are integrated. Also included in this overall concept have been inputs for lock release, bolt switching contact and opening contact and an additional tamper input. Each connection can be operated autonomously.

Technical Data

Closed-circuit current	5 mA
Block magnet activated	150 mA

Article to be discontinued by 31.12.2006
► **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 for backset	25 mm
Dimensions (W x H x D)	260 x 60 x 40 mm

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 backset. 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

**Backset extension from 25 to 50 mm**

022113

**Backset extension from 25 to 65 mm**

022114.02

**Extension of special backset from 25 mm to 55 mm**

022114.03

**Extension of special backset from 25 mm to 80 mm**

022114.04

**Extension of special backset from 25 mm to 100 mm**

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 **Core drawback protection rosettes**

Performance Features

- according to VdS class A

Safety rosette including core drawback protection for half cylinder.

Technical Data

Dimensions (W x H x D)	44 x 70 x 5 mm, internal escutcheon
Dimensions (W x H x D)	44 x 70 x 5 mm, internal escutcheon

022115

**Safety rosette for half cylinder**

Chrome-coloured, including M5 threaded bars.

022117

**Spacer**

Chrome-coloured, for 022115, 1.5 mm thick.



022138

**Internal rosette with profiled cylinder perforation**

Chrome-coloured, including M5 threaded bars.

 **Core drawback protection rosette**

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 (W x H x D) external escutcheon	44 x 70 x 12/15 mm
Dimensions (W x H x D) internal escutcheon	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 (W x H x D)	44 x 260 x 11 or 14 mm, external escutcheon
Dimensions (W x H x D)	36 x 260 x 6 mm, internal escutcheon

 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.

022122.01

**Gold-coloured safety door plate**

Including 11-mm thick external escutcheon for cylinder projection of 9 - 14 mm.

Article to be discontinued by 31.12.2006

022123

**Chrome-coloured safety door plate**

Including 14-mm thick external escutcheon for cylinder projection of 12 -17 mm.

022123.01



Gold-coloured safety door plate



Including 14-mm thick external escutcheon for cylinder projection of 12 -17 mm.

Article to be discontinued by 31.12.2006

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

028028



VdS half cylinder, Ikon 5532


 Approval

M191341

Technical Data

Keybit position of the profiled cylinder
Length A

Tiltable by 360° in steps of 45°
35.5mm



Covers all VdS classes in connection with safety door plates 022122.
For use in block locks, for example 022102; 022101.



3 keys with safety certificate

028029



VdS half cylinder, Ikon 5532, including core drawback protection


 Approval

M191342

Technical Data

Keybit position of the profiled cylinder
Length A

Tiltable by 260° in steps of 45°
35.5 mm



Covers all VdS classes in connection with safety rosettes 022115; 022115.10.
For use in block locks, for example 022102; 022101.



3 keys with safety certificate

028034



VdS half cylinder


 Approval

M191341

Same as 028028, but cylinder extended.

Technical Data

Keybit position of the profiled cylinder
Length A

Tiltable by 360° in steps of 45°
40.5 mm



For use in safety control panels/IDENT-KEY operating units, for example 012520;
022183.



3 keys with safety certificate

 Standard

028031



Half cylinder



Simple half cylinder without VdS approval.

Technical Data

Keybit position of the profiled cylinder
Length A

Tiltable by 360° in steps of 45°
40.5 mm



For use in lockable keypad units, for example 025104; 025105.



3 keys with safety certificate

028032



Half cylinder



Simple half cylinder without VdS approval.

Technical Data

Keybit position of the profiled cylinder
Length ATiltable by 360° in steps of 45°
30.5 mm

For use in contact locks of modular operating unit program, for example 12624; block switch, for example 021130; 021131; central units 50-M5; 100-A5; 100-A8; 561-H8 and emergency key box, for example 048850.

3 keys

218781



Half cylinder BKS 3101 B



Simple half cylinder without VdS approval.

Technical Data

Keybit position of the profiled cylinder
Length ATiltable by 360° in steps of 45°
30 mm

For use in key-operated switch SS 90, for example 154428; 154430.

3 keys

Housing lock

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 central units, no simultaneous locking mechanism may be used.

2 keys



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Electrical locking devices
Door Strikes
Electrical safety locks

 **Door strike with locking element function**

This electro-mechanical door strike consists of two mechanical components: The mobile, electro-mechanical catch bolt mounted in the door frame and its solid counter part mounted in the door leaf.

With the system switched on the door closed, the catch bolt is electro-mechanically locked and locks the door via the counter unit. The door cannot be opened.

With the system switched off, the catch bolt is electro-mechanically unlocked, and the counter part can slide in and out again with little noise. The door is released for opening. The electro-mechanical door strike, in combination with a suitable operating unit, has the advantage of not requiring a block lock.

Load current principle:

Locking takes place by the load current principle, which means that the catch bolt is unlocked when voltage is applied. In case of power failure, the door is locked.

No-load current principle:

Locking takes place by the no-load current principle, which means that the catch bolt is locked when voltage is applied. In case of power failure, the door is unlocked.

019110



Door strike 12 V DC / 200 mA, type 9314, load current


 **Approval**
G194100 (EMT), Class C

Complete with dead bolt.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	11 V to 13.5 V DC
Nominal current	200 mA
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
corrosion-resistant	according to DIN 50018
Type of protection DIN 40050	IP 40
Environmental class according to VdS	III
Duty cycle	100%
Mech. Mechanical Strength	4 kN
Material	Stainless steel

Performance Features

- position-independent mounting possible

019111



Door strike 12 V DC / 200 mA, type 9334, closed-circuit current


 **Approval**
G194100 (EMT), Class C

Complete with dead bolt.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	11 V to 13.5 V DC
Nominal current	200 mA
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
corrosion-resistant	according to DIN 50018
Type of protection DIN 40050	IP 40
Environmental class according to VdS	III
Duty cycle	100 %
Mech. Mechanical Strength	4 kN
Material	Stainless steel

Performance Features

- position-independent mounting possible

019040

**Universal electric door strike**

Door strike with load current function fitted with standard flat face plate with dead bolt cutout for house and room door locks. Remountable for DIN left- and right-hand

Technical Data

Rated voltage	12 V DC
Current consumption	0.23 A
Duty cycle	100%

For dimensional drawing, see overview.

019041

**Universal electric door strike**

Door strike with no-load current function fitted with standard flat face plate with dead bolt cutout for house and room door locks. Remountable for DIN left- and right-hand

Technical Data

Rated voltage	12 V DC
Current consumption	0.23 A
Duty cycle	100%

For dimensional drawing, see overview.

019044

**FAFIX electric door strike**

Door strike with load current function fitted with standard flat face plate with dead bolt cutout for house and room door locks.

Symmetric FAFIX latch bolt arrangement Remountable for DIN left- and right-hand

Technical Data

Rated voltage	12 V DC
Current consumption	0.23 A
Duty cycle	100%

FAFIX = door strike with adjustable and fixable door strike latch bolt

019045

**FAFIX electric door strike**

Door strike with no-load current function fitted with standard flat face plate with dead bolt cutout for house and room door locks.

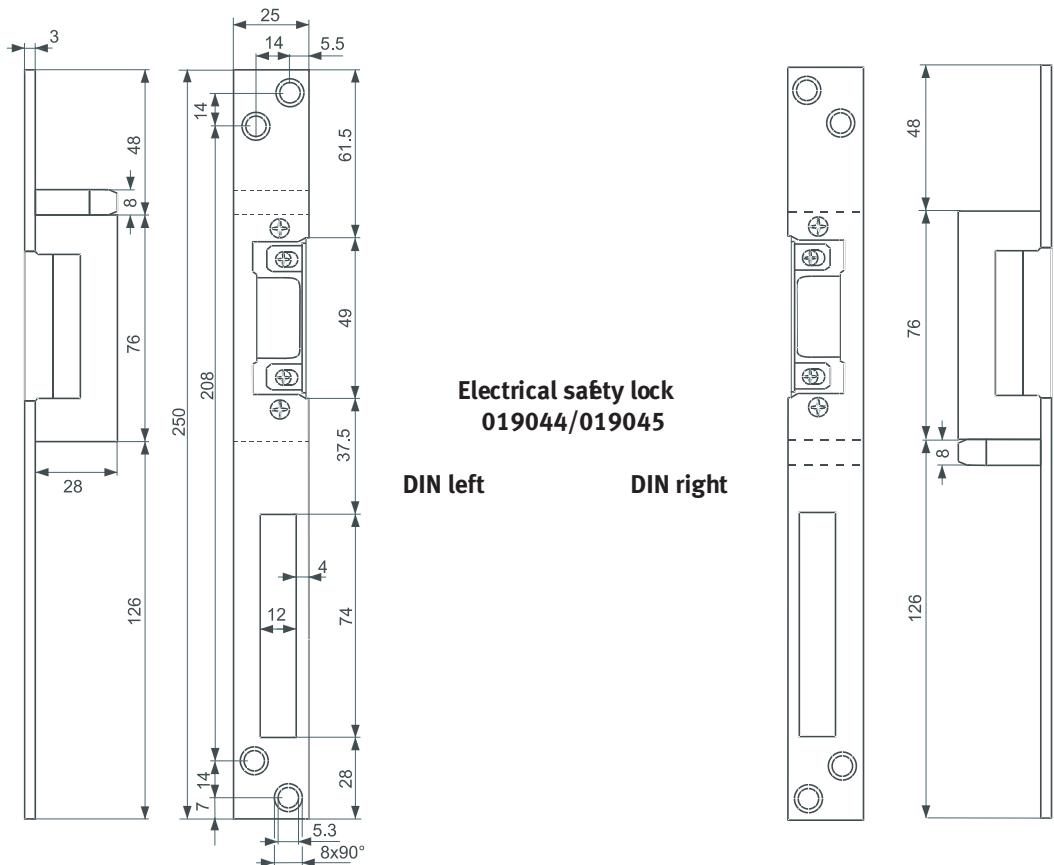
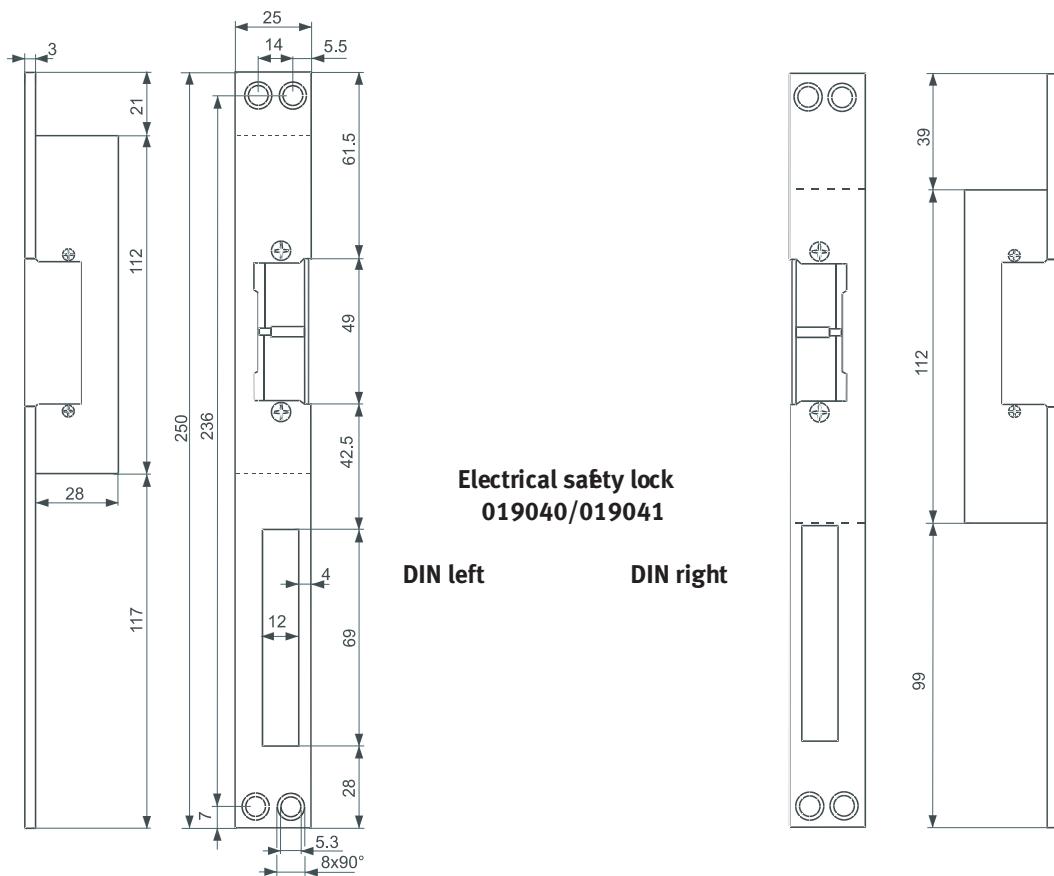
Symmetric FAFIX latch bolt arrangement Remountable for DIN left- and right-hand

Technical Data

Rated voltage	12 V DC
Current consumption	0.23 A
Duty cycle	100%

Variations such as angled face plate (DIN left-/right-hand) or short flat face plate upon request.

 Electric door strike dimensional drawing



 Safety Door Strikes

019042

 DIN right-hand safety door strike Approval

Z199003 (Access Control), Class C

Door strike with load current function fitted with standard flat face plate with dead bolt cutout for house and room door locks, with increased protection against break-open.

Technical Data

Rated voltage	12 V DC
Current consumption	0.35 A
Duty cycle	100%

019042.01

 DIN left-hand safety door strike Approval

Z199003 (Access Control), Class C

Door strike with load current function fitted with standard flat face plate with dead bolt cutout for house and room door locks, with increased protection against break-open.

Technical Data

Rated voltage	12 V DC
Current consumption	0.35 A
Duty cycle	100%

 Striking plates

019049

 Angled face plate for safety door strike 019042 DIN right-hand

019049.01

 Angled face plate for safety door strike 019042.01 DIN left-hand

Electric safety locks type 809



Performance Features

- Self-locking
- Anti-panic function
- Auxiliary latch for automatic dead bolt throw
- Permanent opening device from room interior
- External handle free wheeling, can be enabled electrically
- Lock alternating function for key operation
- Monitoring function by integrated micro switch
- can be combined with escape door locking system
- increased protection against burglary through permanently locked door
- Approval for fire barrier doors D 09.11, Test mark P120090197

These locks are self-locking panic locks with split follower for handle. The outer strike is at first without function (free wheeling), but can be enabled by electric activation.

Self-locking is done automatically. This means that the bolt is automatically extended when the door is closed.

The **anti-panic function** guarantees that the lock can be actuated from the inside without additional aids by anyone at any time.

When combined with electronic access control systems or a central control unit, it also offers, in addition to the simple activation, a multitude of monitoring options. To this end, **four potential-free switch contacts** are integrated in the lock, which allow to signal every operation in the lock.

The model to fit can be determined from the list at the end of the chapter.

Technical Data

Rated operating voltage	12 V DC
Current consumption	220 mA
Relay contact rating	25 V DC / 1 A
Protection type	IP 30 (with built-in cylinder)
Requirement on mech. strength acc. to DIN 1825	Class 4
Minimum load of the latch	5 kN
Minimum load of the sliding bolt	10 kN
Sliding bolt counter force	min. 4 kN
Material	Stainless steel (face plate)
Dead bolt throw	20 mm
Follower	9 mm
Length of the connecting cable	6 m
Dimensions	See drawing

 The electric safety locks work by the load current principle and are available with backset 35 mm and backset 65 mm.

Locks with backset 65 mm

019050



Electric safety lock 809

Design E, right-hand, opening to the inside.



019051



Electric safety lock 809

Design F, right-hand, opening to the outside.

019052



Electric safety lock 809

Design C, left-hand, opening to the inside.

019053



Electric safety lock 809

Design D, left-hand, opening to the outside.

► Locks with backset 35mm

019054

 **Electric safety lock 809**

Design E, right-hand, opening to the inside.

019055

 **Electric safety lock 809**

Design F, right-hand, opening to the outside.

019056

 **Electric safety lock 809**

Design C, left-hand, opening to the inside.

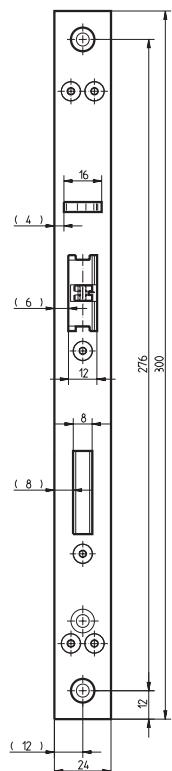
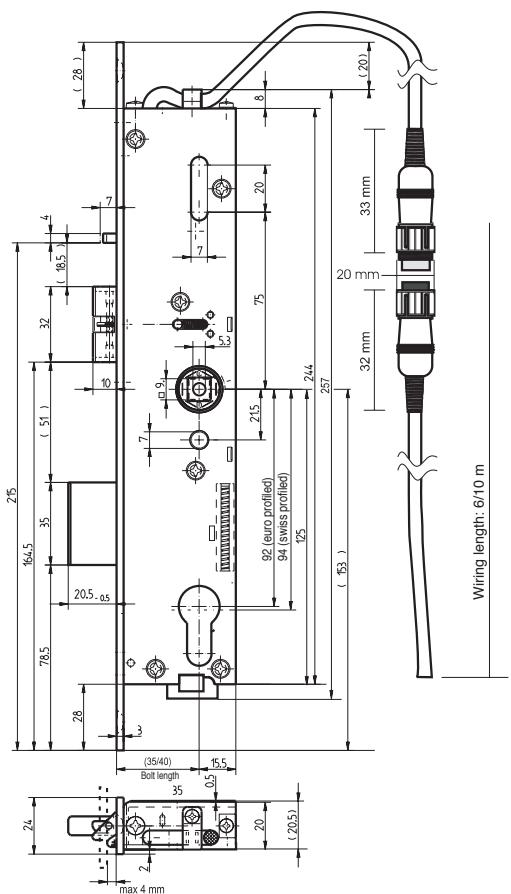
019057

 **Electric safety lock 809**

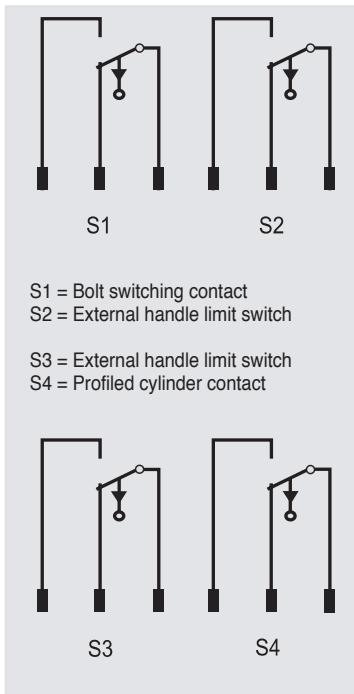
Design D, left-hand, opening to the outside.

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Dimensional drawing



Switch functions

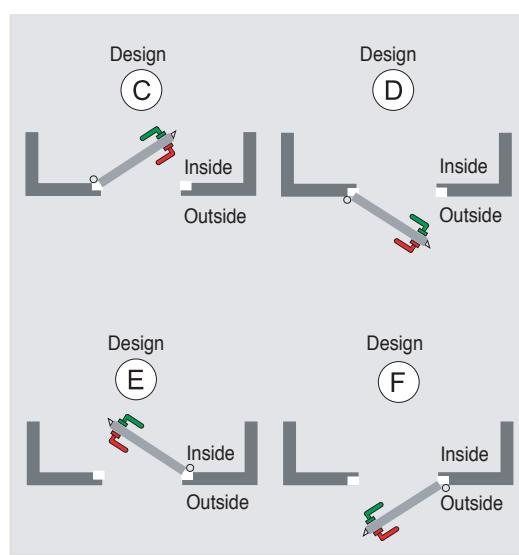
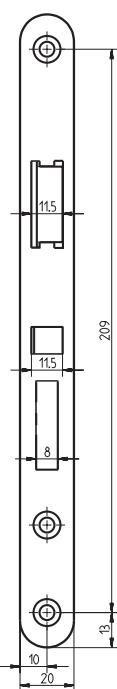
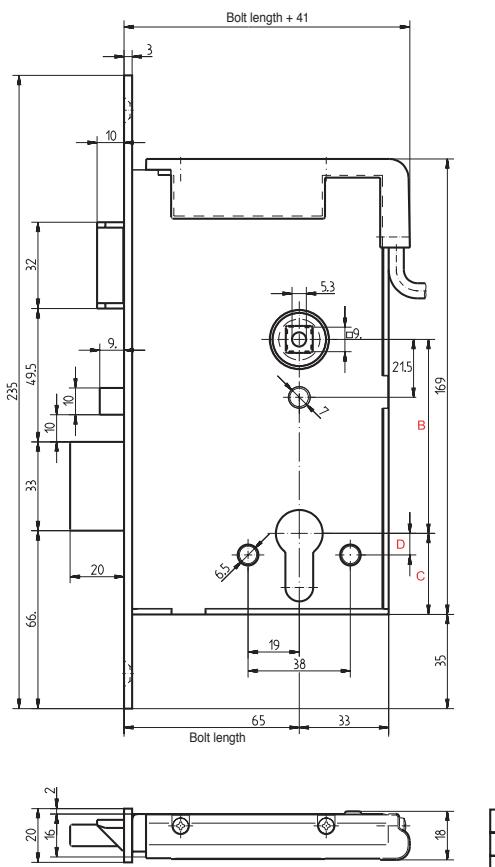


The electric safety locks work by the load current principle and are available with bold length 35mm or 65mm. Depending on the stop and the direction of opening, a distinction is made between designs C, D, E, and F.

This design code is the last place of the type designation. The designation of the locks is based on viewing the door from the outside, that is, from the side with free wheeling door handle, and not on the DIN approach.

The lock 019050 specified as "right-hand, opening to the inside", corresponds to design E.

The handles on the outside are free wheeling and can be enabled electrically, if and when required. This allows the door to be opened from the outside. The handles on the inside can be used to open the door anytime, thus ensuring the panic function.



	B	C	D	
Euro-prof. cyl.	72	30	8	mm
swiss prof. cyl.	74	28	6	mm

Warning!

Warning: The dimensions B, C and D depend on the cylinder form to which the lock has been prepared.

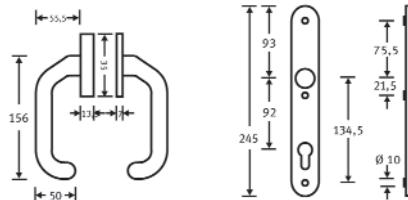
► Armatures for safety locks

The free wheeling function with split follower for handle make it necessary that the door strikes have an independent mechanical guidance. The safety armatures with core draw-back protector included in the program have their design adapted to the electric safety lock and offer the required mechanical guidance and stability. The armatures are available in stainless steel or natural anodised aluminium. For use in escape doors according to EN179, only the armatures offered here may be used.

019070



Stainless steel armature for lock 809 with backset 35 mm

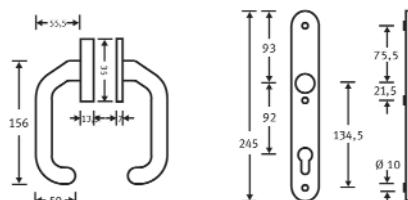


Armature for 35 mm of backset and 9-12 mm of cylinder spacing

019071



Aluminium armature for lock 809 with backset 35 mm

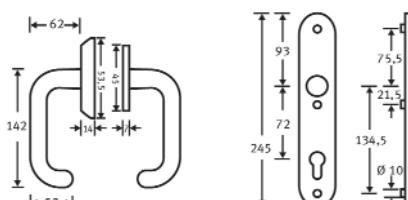


Armature for 35 mm of backset and 9-12 mm of cylinder spacing

019072



Stainless steel armature for lock 809 with backset 65 mm

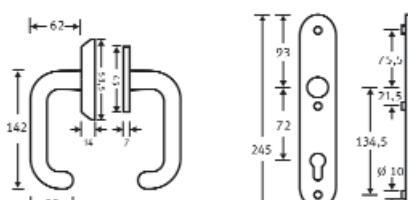


Armature for 65 mm of backset and 11-17 mm of cylinder spacing

019073



Aluminium armature for lock 809 with backset 65 mm



Armature for 65 mm of backset and 11-17 mm of cylinder spacing

Accessories

The range of accessories is divided into the following components:

- Fixing screws
- Handle pins for inside and outside
- Armatures
- Striking plates

The components are adapted to one another and guarantee a problem-free mounting of a complete lock including its add-on parts.

Fixing screws / Handle pins

Depending on the door leaf thickness and the bolt length, suitable fixing screws and internal and external handle pins will be required. Which fixing screws or handle pins are required can be seen from the table. There the corresponding article number can also be found.

External handle pins

Dimension XF for Dimension XF for Length Art. No.

Bolt length

35mm 65mm

14-17,5 mm	-	43 mm	019220	
17,5-21 mm	-	46,5 mm	019221	
21-24,5 mm	14,5-24,5 mm	50 mm	019222	
24,5-28 mm	-	53,5 mm	019223	
28-31,5 mm	-	57 mm	019224	
31,5-35 mm	25-35 mm	60,5 mm	019225	
35-38,5 mm	-	63 mm	019226	
38,5-42 mm	-	67,5 mm	019227	
42-45,5 mm	35,5-45,5 mm	71 mm	019228	
45,5-49 mm	-	74,5 mm	019229	
49-52,5 mm	-	78 mm	019230	
52,5-56 mm	46-58 mm	81,5 mm	019231	
56-77 mm	56,5-75 mm	100 mm*	019232	

*adjust on-site

Internal handle pins

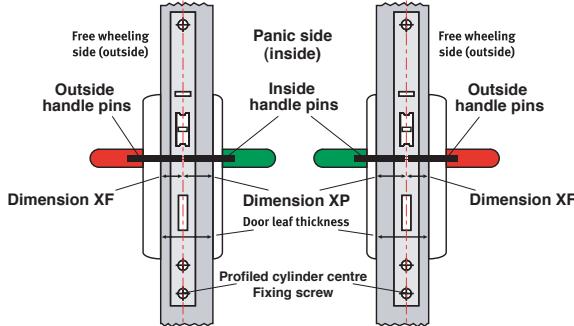
Dimension XP for Dimension XP for Length Art. No.

Bolt length

35mm 65mm

18-21,5 mm	-	38 mm	019233	
21,5-25 mm	-	41,5 mm	019234	
25-28,5 mm	17,5-27,5 mm	45 mm	019235	
28,5-32 mm	-	48,5 mm	019236	
32-35,5 mm	-	52 mm	019237	
35,5-39 mm	28-38 mm	55,5 mm	019238	
39-42,5 mm	-	59 mm	019239	
42,5-46 mm	-	62,5 mm	019240	
46-49,5 mm	38,5-48,5 mm	66 mm	019241	
49,5-53 mm	-	69,5 mm	019242	
53-56,5 mm	-	73 mm	019243	
56,5-60 mm	49-59 mm	76,5 mm	019244	

The graphic shows the relevant criteria for determining the appropriate components.



Fixing screws

Door leaf thickness Length Art. No.

33-37 mm	40 mm	019200	
38-42 mm	45 mm	019201	
43-47 mm	50 mm	019202	
48-52 mm	55 mm	019203	
53-57 mm	60 mm	019204	
58-62 mm	65 mm	019205	
63-67 mm	70 mm	019206	
68-72 mm	75 mm	019207	
73-77 mm	80 mm	019208	
78-82 mm	85 mm	019209	
83-87 mm	90 mm	019210	
88-92 mm	95 mm	019211	
93-97 mm	100 mm	019212	
98-102 mm	105 mm	019213	
103-107 mm	110 mm	019214	

► Adjustable striking plate

022090

 **Adjustable striking plate**

For electric safety lock 809 and motor lock 509x.

► Striking plates for safety locks

019059

 **Flat face plate, 24 mm wide, for electric safety lock**

019060

 **Flat face plate, 20 mm wide, for electric safety lock**

019061



Angled face plate, DIN right-hand, for electric safety lock



019062



Angled face plate, DIN left-hand, for electric safety lock



019063



Safety angled face plate, DIN right-hand, for electric safety lock



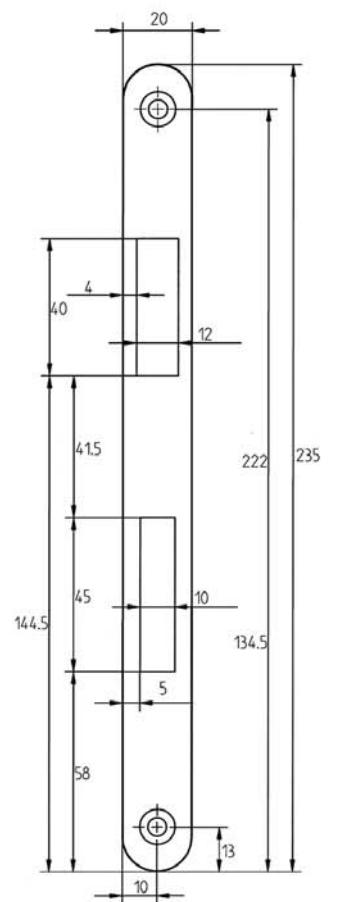
019064



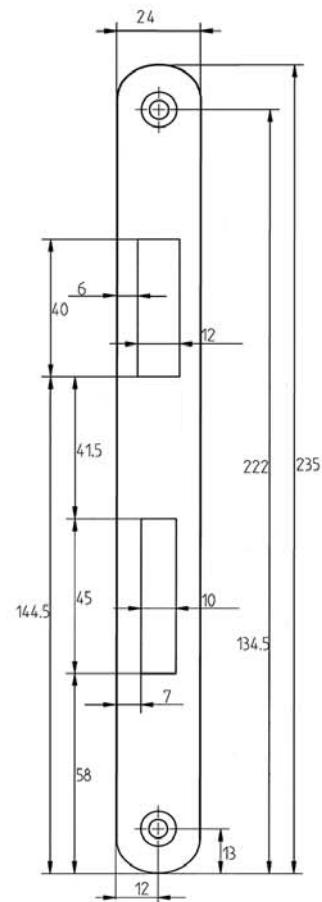
Safety angled face plate, DIN left-hand, for electric safety lock



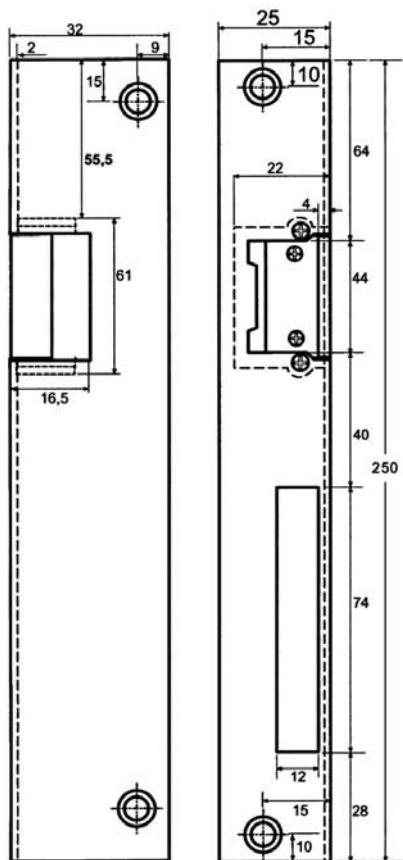
► Dimensional drawings of the lock plates



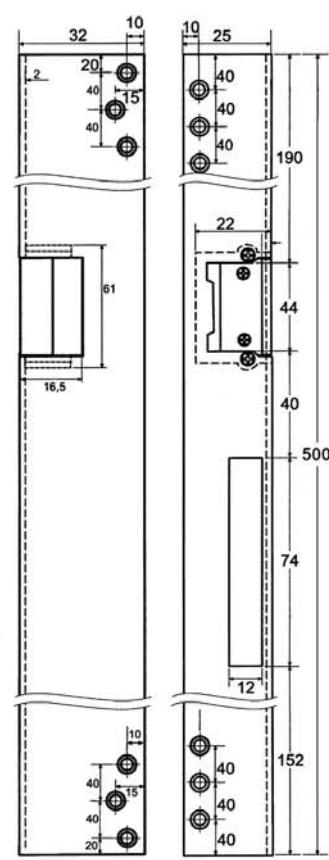
019060



019059

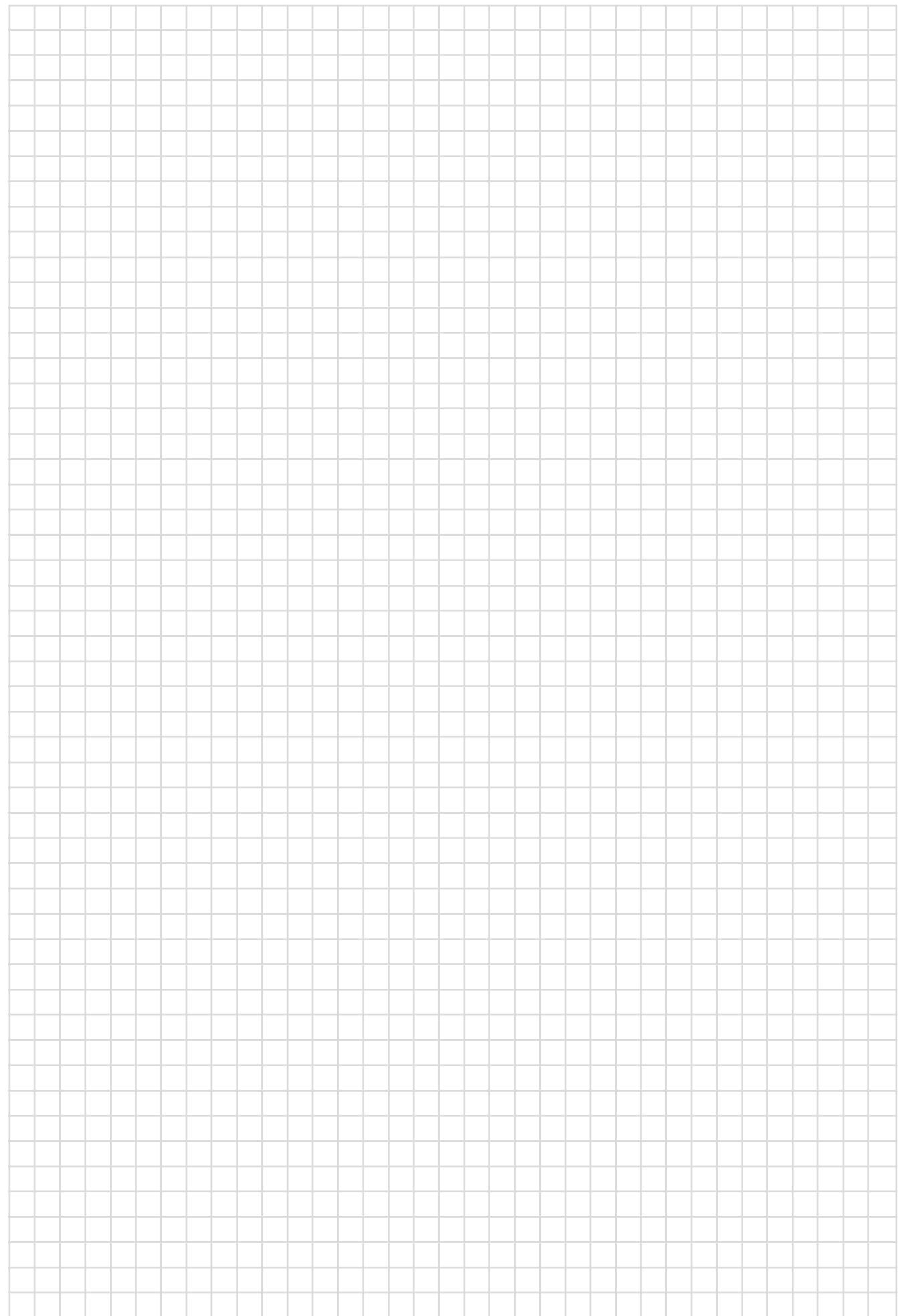


019062



019064





A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Door Code Systems
ACD
Compact door code
VdS code control unit
Code keypad units

022421.10



ACD pin code, 8 mm



Approval

Z199705 (Access Control), 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.

Performance Features

- 1- to 8-digit pin code
- max. 4 codes
- Permanent release possible

NEW:

- with reinforced mechanics

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
Power consumption during operation	8 mA
Environmental class according to VdS	II
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Power supply	3 AA cells (1. 5 V) alkali/manganese
Life span of the battery	about 24 months (at 50 trigger operations/day)
Backset	55 mm or longer
Distance measure	72 mm
Door leaf thickness	38 -60 mm
Follower measure	8 mm
Dimensions (W x H x D) external escutcheon	65 x 289 x 27 mm
Dimensions (W x H x D) internal escutcheon	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.

022420.10



ACD contactless, 8 mm



VdS Approval

Z199706 (Access Control), 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.

Performance Features

- can manage up to 99 proximity ID cards
- Permanent release possible

NEW:

- with reinforced mechanics

Technical Data

Current consumption in no-load operation	15 µA
Power consumption during operation	30 mA
Environmental class according to VdS	II
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Power supply	3 AA cells (1. 5 V) alkali/manganese
Life span of the battery	about 12 months (at 50 trigger operations/day)
Reading range	approx. 7 cm
Backset	55 mm or longer
Distance measure	72 mm
Door leaf thickness	38 -60 mm
Follower measure	8 mm
Dimensions (W x H x D) external escutcheon	65 x 289 x 27 mm
Dimensions (W x H x D) internal escutcheon	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.

Proximity ID cards and ID key rings can be used, which are listed in the "Information Carrier" chapter (exception: mifare and Legic cards).

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

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

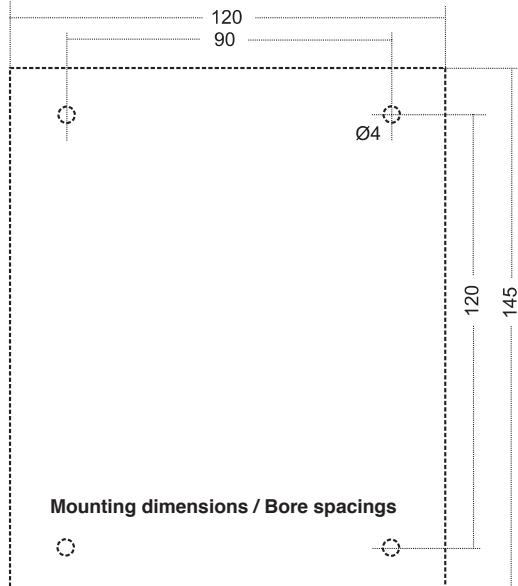
- 1-channel device
- microprocessor-controlled
- 2- to 6-digit code input
- time-settable channel release
1-30 seconds
- optic display for release period
- Permanent unlocking via keypad
- Door strike with no-load current or load current function can be used
- Compact design
- Power supply unit and keypad integrated
- Simple installation
- Attractive design
- Metal housing

Technical Data

Rated mains voltage	230 V DC
Mains voltage range	230 V AC +10 % to -15 %
Mains frequency	50 Hz
Power consumption full load	11.5 VA
Relay contact rating	24 V DC / 1A
External current drain	max. 0.25 A
Humidity class according to DIN 40040	Class F
Type of protection DIN 40050	IP 30
Operating temperature range	0 °C to +40 °C
Storage temperature range	-20 °C to +60 °C
Release period	1 - 30 sec.
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:

- | | |
|-----------|--|
| 019040 | Universal electric door strike (load current) with feedback contact |
| 019041 | Universal electric door strike (no-load current) with feedback contact |
| 019042 | Security door strike, DIN right-hand, VdS |
| 019042.01 | Security door strike, DIN left-hand, VdS |



Performance Features

- 4- or 6-digit code input can be set in the unit, as desired
- Time setting for channel release or channel block freely selectable for each channel
- Permanent channel release via keypad
- Wrong code message after entering 10 invalid codes
- Hold-up code with channel release and hold-up message
- Signal inputs for fault and additional hold-up pushbutton
- Semiconductor outputs for system fault, fault, wrong, code, operation, hold-up and channel release
- potential-free relay outputs for hold-up and channel release
- in door code 2-channel unit, hold-up, channel 1 and channel 2 relays can be programmed to active or passive basic state.
- Integrated watchdog circuit allows automatic reset signal when a system fault occurs

The door code control units are used in hazard detection technology and also as autonomous door strike control units for 1 or 2 separate doors. The systems designed in modern microprocessor technology include a large number of operating and control options.

A channel release is given whenever a code entered on the keypad is identical to the code set in the control unit.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Loading capacity	12 V DC / 50 mA, semiconductor outputs
Environmental class according to VdS	II
Type of protection DIN 40050	IP 30
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Housing	2 mm steel sheet
Colour	grey-white, similar to RAL 9002

 Keyboards can be connected via matrix connection type

Accessories:

- | | |
|--------|---|
| 025105 | Keypad unit, lockable (matrix) |
| 025170 | Keypad unit for indoor mounting (matrix) |
| 025171 | Keypad unit for indoor mounting (matrix) |
| 025172 | Keypad unit, spray water protected (matrix) |
| 025169 | Flush-mounting kit code keypad unit |

025040

**Door code 1-channel device**

 **VdS Approval**

G193027 (EMT), Class C

Universal use of door code control unit for one channel. Excluding power supply/charger unit.

Technical Data

Current consumption at 12 V DC, no load	16 mA
Current consumption at 12 V DC	34 mA, channel release
Dimensions (W x H x D)	230 x 150 x 90 mm



 No room for power supply/charger unit and accumulator

Article to be discontinued by 31.12.2006

025042

**Door code 2-channel device**

 **VdS Approval**

G193029 (EMT), Class C

Door code control unit for two independent channels, for universal use. Additional option of programming the output relays to active or passive basic state. Excluding power supply/charger unit.

Technical Data

Current consumption at 12 V DC, no load	19 mA
Current consumption at 12 V DC	16 mA, per active relay
Dimensions (W x H x D)	300 x 186 x 125 mm

 The following power supply/charger unit and accumulator can be integrated in the door code 2-channel device:

- | | |
|-----------|--|
| 057530.10 | Power supply/charger unit 12 V DC / 7.2 Ah, according to VdS Class A |
| 018002 | 12 V DC / 2.0 Ah accumulator |

Article to be discontinued by 31.12.2006



Code keypad units are used in door code systems or in hazard detection systems with coded disarming device. There are two different versions of connection technology.

1. Direct 1:1 connection. For each key of the unit, a special connection is available. In addition, a connection is available for the common reference potential.
(12 keys = 13 connections)

2. Matrix 3/4 connection. The keys of the unit are arranged as a matrix. This means that not every key has its own connection.
(12 keys = 7 connections)



The keypad units are not mutually exchangeable.

Code keypad units for indoor and outdoor installation

025105



Keypad unit, lockable (matrix)



VdS Approval

G193010 (EMT), Class C

Surface-mounted version including three LEDs and a buzzer.

Technical Data

Protection type	IP 32
Dimensions (W x H x D)	73 x 164 x 36 mm
Colour	grey-white, similar to RAL 9002

025170



Keypad unit for indoor mounting (matrix)



Surface-mounted design without LEDs.

Technical Data

Dimensions (W x H x D)	73 x 164 x 36 mm
Colour	grey-white, similar to RAL 9002

025171



Keypad unit for indoor mounting (matrix)



Surface-mounted design with three LEDs.

Technical Data

Dimensions (W x D x H)	73 x 164 x 36 mm
Colour	grey-white, similar to RAL 9002

025172



Keypad unit, spray water protected (matrix)



Surface-mounted version

Technical Data

Protection type	IP 54
Dimensions (W x H x D)	73 x 164 x 36 mm
Colour	grey-white, similar to RAL 9002

025104

 Keypad unit, lockable (direct)

VdS Approval

G193011 (EMT), Class C

Surface-mounted version including three LEDs and a buzzer.

Technical Data

Protection type

IP 32

Dimensions (W x H x D)

73 x 164 x 36 mm

Colour

grey-white, similar to RAL 9002

025174

 Keypad unit for indoor mounting (direct)

Surface-mounted design with three LEDs.

Technical Data

Dimensions (W x H x D)

73 x 164 x 36 mm

Colour

grey-white, similar to RAL 9002

025169

 Flush-mounting kit

For code keypad units of all types

Technical Data

Colour

grey-white, similar to RAL 9002

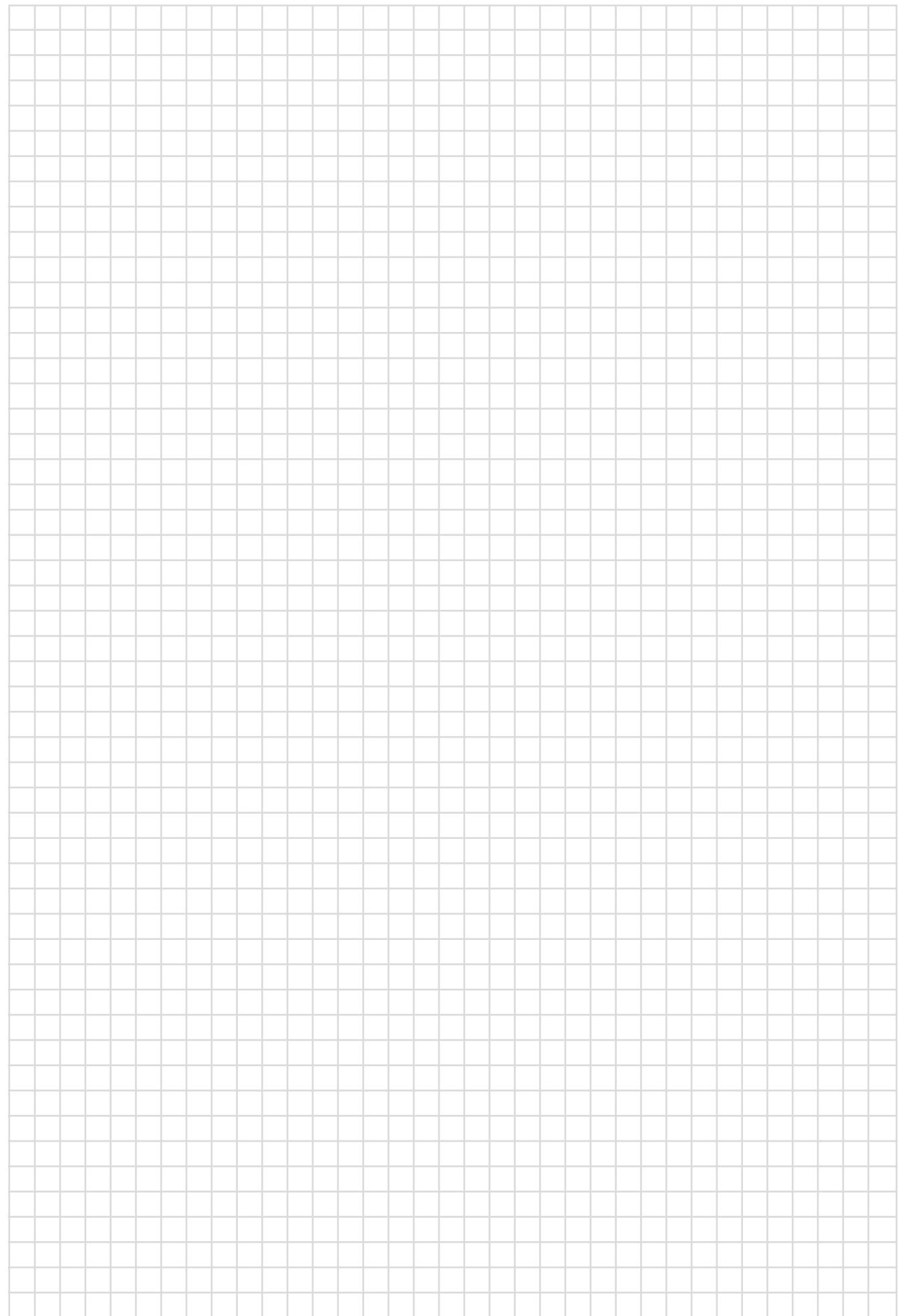
Dimensions (W x H x D)

92 x 180 x 35 mm (flush-mounted insert)

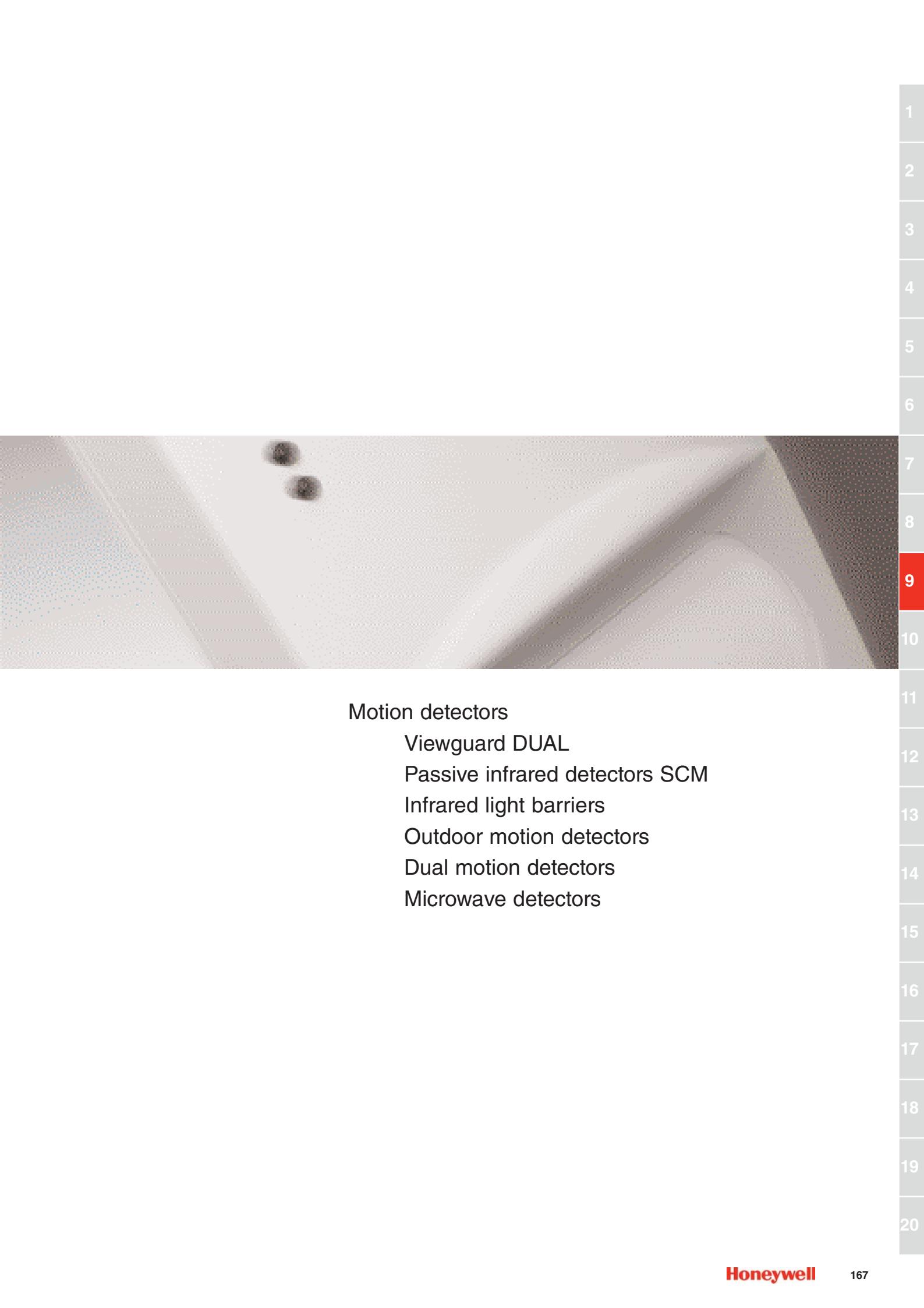
Dimensions (W x H x D)

104 x 194 x 23 mm (frame)





A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Motion detectors

- Viewguard DUAL
- Passive infrared detectors SCM
- Infrared light barriers
- Outdoor motion detectors
- Dual motion detectors
- Microwave detectors

Viewguard DUAL BUS-2

Performance Features

- VdS approval Class B or Class C
- High-quality mirror optics and temperature compensation for PIR detection
- interference-proof X band microwave detection
- the AM version art. no. 033442 includes: Monitoring against covering (AM) for near-range up to about 20 cm with additional detection of the detector window being glued up or sprayed
- cyclic self-test of all functions (033442)
- Operating voltage monitoring with fault message in case of undervoltage
- LED displays for alarm, walk test, fault, cover-up detection
- Walk test function with indication of the release type (PIR or PIR+MW)
- Range programmable in four steps
- PIR sensitivity programmable in two steps
- Fault with or without storage, as desired
- Versatile mounting options even without accessories (see figure)

For the first time, the Viewguard DUAL motion detects provide direct connection of DUAL detectors to the BUS-2 of the adequately equipped intrusion detection central units. The detectors work with intelligently linked passive infrared and microwave detection and, in the version approved according to VdS-C, additionally provide monitoring against covering (AM). The PIR detection is effected by a high-quality mirror optics, which, in connection with the newly developed X band microwave sensor, guarantees excellent detection in combination with maximum false alarm security.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	7.5 V to 15 V DC
Current consumption at 12 V DC	Sensors 4.6 mA, LED 4 mA
Type of protection DIN 40050	IP 30
Environmental class according to VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Range	programmable
Surface optics	22 zones, up to 16 m, aperture angle 80°
Installation position	vertical, optics at the bottom
Swivel range	Detector with adjusting hinge: ±20 ° horizontal; +4° to -8 ° vertical
Alarm display	LED red
Fault display	LED yellow
Dimensions (W x H x D)	64 x 158 x 48 mm (without adjusting hinge)
Colour	white, similar to RAL 9010

Accessories:

- | | |
|--------|---|
| 033390 | Adjusting hinge for motion detector |
| 033391 | Lock seals for motion detector, 20 per packaging unit |
| 033588 | Ball joint set for motion detector |

033442



Viewguard DUAL AM BUS-2 with surface optics



Approval

applied for (EMT), Class C

033443



Viewguard DUAL BUS-2 with surface optics



Approval

applied for (EMT), Class B

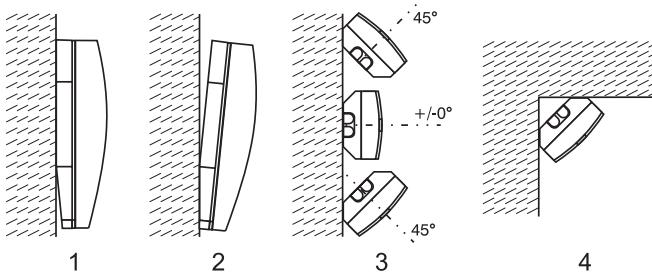


 **Viewguard DUAL mounting options and detection area**

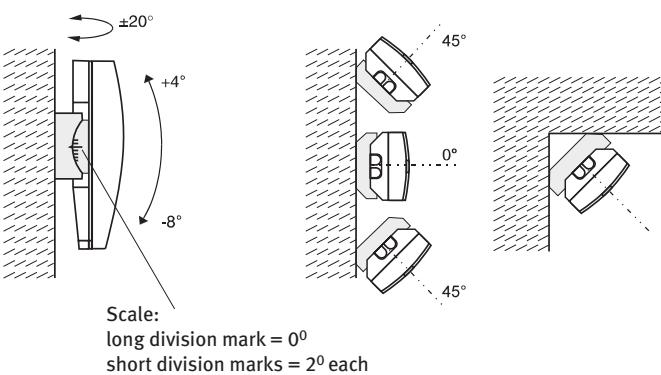
Viewguard DUAL mounting options

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

Surface optics with creep protection:

Suitable for monitoring rooms
of up to 12m x 12m

Lens splitting:

22 zones over 5 levels

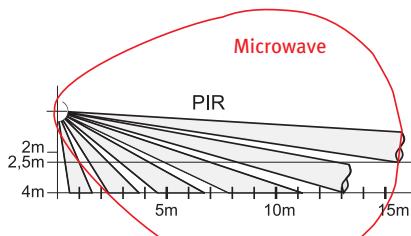
Opening angle:

80° horizontal, 64° vertical

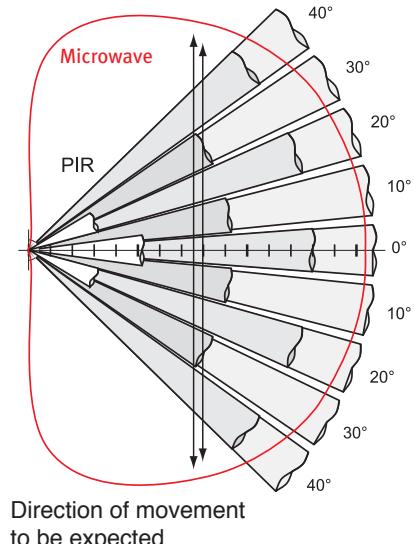
PIR and microwave range:

(8 / 11 / 13 / 15m)

Mounting 0° inclination



PIR and microwave work automatically with the same range



Passive infrared detectors SCM 2000



Performance Features

- 2 connection technologies: First alarm detection or BUS-1
- Attractive design
- Compact housing
- Low overall current consumption
- 3 different mirror optics for selective object 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

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:

- Surface 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.

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 first alarm detection, max. 2.5 mA BUS 1; Walk test (with LED) max. 6.5 mA (all versions)
Alarm contact	admissible breaking capacity 16 V DC / 100 mA
Internal resistance	max. 10 Ohm
Sabotage Contact	admissible breaking capacity 30 V DC / 100 mA
Internal resistance	max. 10 Ohm
Type of protection DIN 40050	IP 30
Environmental class according to VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Range	programmable
Surface optics	22 zones, up to 16 m
Route optics	8 zones, up to 50 m
Curtain optics (vertical)	11 zones, up to 30 m
Installation position	vertical, optics at the bottom
Swivel range	Detector with adjusting hinge: ±20 ° horizontal; +4° to -8 ° vertical
Alarm display	LED red
Dimensions (W x H x D)	57 x 138 x 49 mm (without adjusting hinge)
Colour	grey-white, similar to RAL 9002

033360



SCM 2000 first alarm detection with surface optics



G196652 (EMT), Class B

033370



SCM 2000 BUS-1 with surface optics



G196653 (EMT), Class B

033361



SCM 2000 first alarm detection with route optics



G196675 (EMT), Class B

033371



SCM 2000 BUS-1 with route optics



G196676 (EMT), Class B

033362



SCM 2000 first alarm detection with curtain optics



G196672 (EMT), Class B

033372



SCM 2000 BUS-1 with curtain optics



G196673 (EMT), Class B

Passive infrared detectors SCM 3000



Performance Features

- BSI Approval
- 3 connection technologies: First alarm detection/BUS-1/BUS-2
- Attractive design
- Compact housing
- Low overall current consumption
- 3 different mirror optics for selective object 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
- Remote parameterisation with the SCM 3000/BUS-2: The parameters range, sensitivity, Store fault can be programmed from the central unit.
- Cyclic self-test: In the disarmed state, correct function and supply voltage are tested
- Temperature compensation
- Walk test

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. 3 different connection methods are available: conventional connection technology by means of first alarm detection logic; BUS-1 connection technology (3-wire), BUS-2 connection technology (3-wire). 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:

- Surface 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.

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. 4 mA first alarm detection, max. 3 mA BUS-1 and BUS-2; Walk test (with LED) max. 8 mA first alarm detection, BUS-1 and BUS-2
alarm contact	admissible breaking capacity 16 V DC / 100 mA
Internal resistance	max. 10 Ohm
Sabotage Contact	admissible breaking capacity 30 V DC / 100 mA
Internal resistance	max. 10 Ohm
Type of protection DIN 40050	IP 30
Environmental class according to VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Range	programmable
Surface optics	22 zones, up to 16 m
Route optics	8 zones, up to 50 m
Curtain optics (vertical)	11 zones, up to 30 m
Installation position	vertical, optics at the bottom
Swivel range	Detector with adjusting hinge: ±20 ° horizontal; +4° to -8 ° vertical
Alarm display	LED red
Fault display	LED yellow
Dimensions (W x H x D)	57 x 138 x 49 mm (without adjusting hinge)
Colour	grey-white, similar to RAL 9002

033400



SCM 3000 first alarm detection with surface optics



G196073 (EMT), Class C

033401



SCM 3000 BUS-1 with surface optics



G196074 (EMT), Class C

033402



SCM 3000 BUS-2 with surface optics



G196076 (EMT), Class C

033403



SCM 3000 first alarm detection with route optics



G196085 (EMT), Class C

033404  **SCM 3000 BUS-1 with route optics**

 Approval G196086 (EMT), Class C

033405  **SCM 3000 BUS-2 with route optics**

 Approval G196087 (EMT), Class C

033406  **SCM 3000 first alarm detection with curtain optics**

 Approval G196082 (EMT), Class C

033407  **SCM 3000 BUS-1 with curtain optics**

 Approval G196083 (EMT), Class C

033408  **SCM 3000 BUS-2 with curtain optics**

 Approval G196084 (EMT), Class C

► Accessories

033390  **Adjusting hinge for motion detectors**



 For SCM + Viewguard

033391  **Lock seals for motion detectors**



 For SCM + Viewguard

 20 units

033588  **Ball joint set for wall and corner mounting**

Includes adjusting options on all sides for optimum adaptation to the monitored area.



 For SCM + Viewguard

 1 mounting base for wall mounting; 1 mounting base for corner mounting

 **Connection description SCM 2000/3000****First alarm detection evaluation:**

- First alarm detection by LED interval display
- LED dark control in the armed state
- LED dark control in the disarmed state when open to the public (option)
- Walk test function in the disarmed state
- Diagnostic mode can be selected via switch.

The logic connection in conventional multi-wire technology is suitable for connection to a closed-circuit current detector group with alarm repetition. A sabotage detector group can be activated via the integrated cover contact. Also available are the logic connections for extinguishing, disarmed and the first alarm detection functions.

BUS-1 connection:

- LED dark control in the armed state
- LED dark control in the disarmed state (option)
- Walk test function in the disarmed state
- Diagnostic mode can be selected via switch.
- Control of the detector states via 3-wire data BUS

BUS-2 connection:

- LED dark control in the armed state
- LED dark control in the disarmed state (option!)
- Walk test function in the disarmed state
- Control of the detector states via 3-wire data BUS

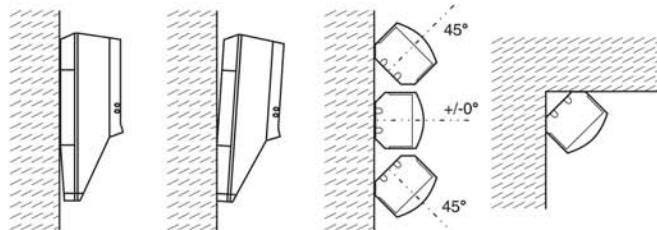
Additional functions depending on the software version of the intrusion detection central unit:

- Separate display of the monitoring against covering at the central unit
- 4 stages of the diagnostic mode can be selected from the central unit
- Setting of the monitoring mode from the central unit
- Setting of the fault memory from the central unit
- Setting of the sensitivity from the central unit
- Setting of the range from the central unit

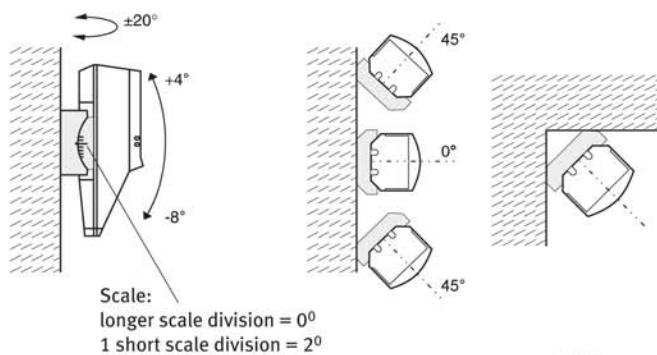
Mounting options

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)

Curtain optics horizontal,
for monitoring
clamber areas

Lens splitting:
11 zones on 11 levels
opening angle:
7,5° horizontal, 85° vertical
Range:

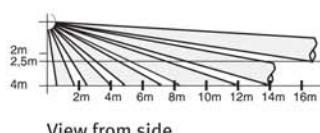
30m on 4 levels (17 / 21 / 25 / 30m)

Long-distance optics,
for monitoring corridors

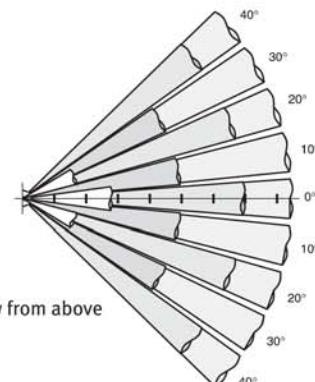
Lens splitting:
8 zones on 6 levels
Opening angle:
30° horizontal, 78° vertical
Range:

50m on 4 levels (29 / 35 / 42 / 50m)

Volumetric optics

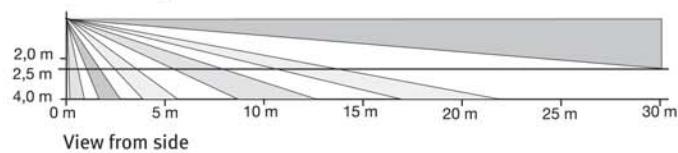


View from side

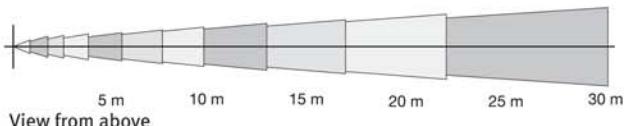


View from above

Curtain optics horizontal Mounting 0° tilt

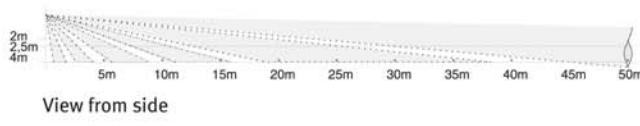


View from side

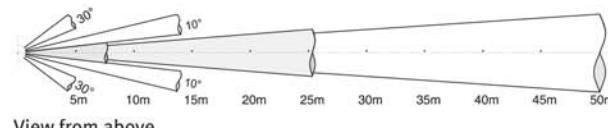


View from above

Long-distance optics Mounting 0° tilt



View from side



View from above

► Outdoor motion detectors VEx

Performance Features

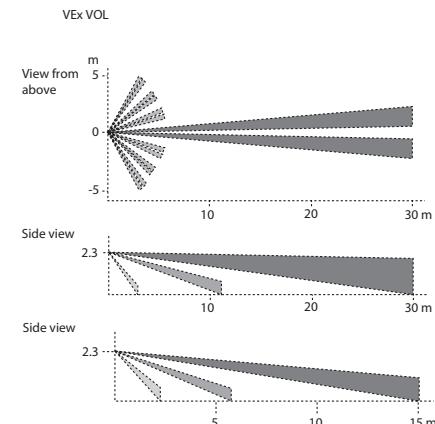
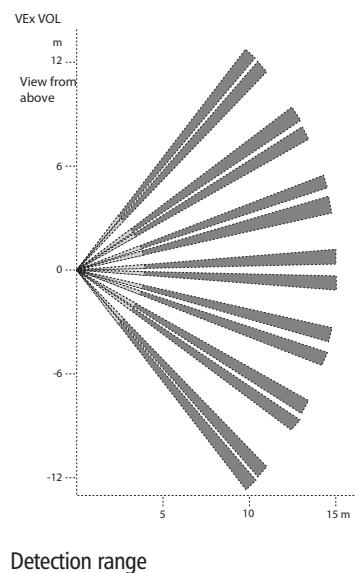
- Conventional connection technology
- Large range
- Digital temperature compensation

The outdoor motion detectors VEx VOL and VEx KORR are PIR detectors for detecting motions outdoors.

The two detectors differ from one another with respect to their maximum range of 15 m and 30 m, respectively, and by the form of the detected area. The VEx VOL detector covers a 90° wedge, while the VEx KORR detects a small area (corridor).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 16 V DC
Current consumption at rated voltage	max. 12 mA
Alarm contact	potential-free NC contact, max. 24 DC/50 mA (protective resistance 10 Ohm)
Sabotage Contact	potential-free NC contact, max. 24 DC/50 mA
Protection type	IP 55 (according to EN 60529)
Alarm time	approx. 3 seconds
Colour	white, similar to RAL 9003



033120



VEx VOL outdoor detector



Technical Data

Range	15 m
-------	------

033121



VEx KORR outdoor detector



Technical Data

Range	30 m
-------	------

Dual motion detector Astra-Elite

Performance Features

- Conventional connection technology
- PIR and microwave detectors
- Monitoring against covering (Elite AM)
- Alarm memory
- Cyclic self-test (Elite AM)

PIR detector with integrated microwave detector and monitoring against covering (with Elite AM).

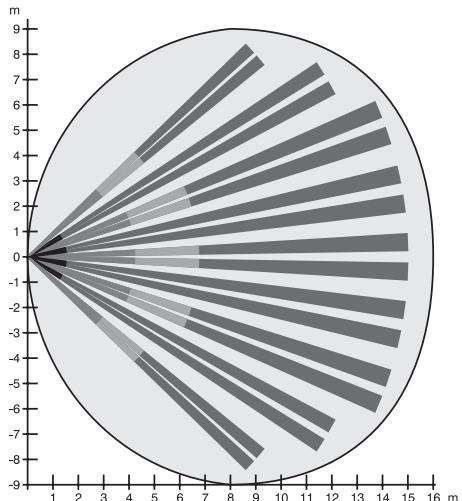
The functional principle of the detector is based on a connection of passive infrared and microwave by an AND operation. The detector is only triggered when both detector parts detect at the same time.

This connection makes the detector insensitive to air and heat turbulence.

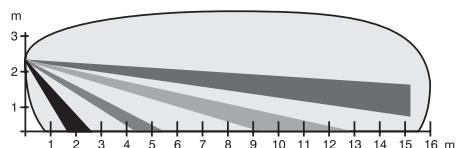
Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 16 V DC
Alarm time	approx. 3 seconds
Contact rating	potential-free NC contact, max. 24 V/50 mA
Fault output	Open Collector max. 25 V/10 mA
Adjustment range	Fresnel lens +2 °C to -12°C vertical
Frequency	microwave 2.45 GHz
Environmental class according to VdS	II
Protection type	IP 30 (according to EN 60529)
Operating temperature range	-10 °C to +55 °C
Range	PIR 15 m; microwave range can be set between 5 m and 17 m
Colour	white, similar to RAL 9003

View from above



Side view



Detection range Astra Elite and Astra Elite AM

033100



Dual detector Astra Elite



G196537 (EMT), Class B

Plastic housing contains logic evaluation and alarm memory.

Technical Data

Current consumption at rated voltage	max. 20 mA
Dimensions (W x H x D)	80 x 125 x 60 mm

Accessories:

033105 Wall mounting bracket LBP2



033101



Dual detector Astra Elite AM



VdS Approval

G198002 (EMT), Class C

Plastic housing contains logic evaluation, monitoring against covering and alarm memory.

Technical Data

Current consumption at rated voltage

max. 40 mA

Dimensions (W x H x D)

87 x 154 x 70 mm

Accessories:

033105 Wall mounting bracket LBP2

Dual motion detector Micra

Performance Features

- Conventional connection technology
- PIR and microwave detectors

PIR detector with integrated microwave detector.

The functional principle of the detectors is based on a connection of passive infrared and microwave by an AND operation. The detector is only triggered when both detector parts detect at the same time.

This connection makes the detectors insensitive to air and heat turbulence.

Technical Data

Rated operating voltage

12 V DC

Operating voltage range

9.5 V to 16 V DC

Current consumption at rated voltage

max. 20 mA

Contact rating

potential-free NC contact, max. 24 DC/50 mA

Frequency

microwave: 2.45 GHz

Environmental class according to VdS

II

Protection type

IP 3X (according to EN 60529)

Alarm time

approx. 4 seconds

Colour

white, similar to RAL 9003

Accessories:

033105 Wall mounting bracket LBP2

033106 Ceiling mounting bracket CMB 1

033102



Dual detector Micra S-8



VdS Approval

G197557 (EMT), Class B

Technical Data

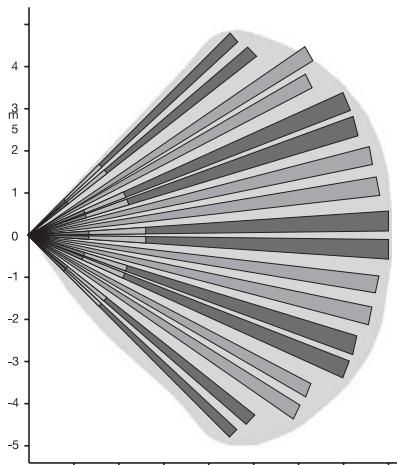
Range

8 m

Dimensions (W x H x D)

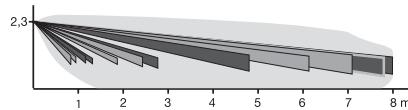
68 x 115 x 50 mm

View from above



Side view

Detection range Micra S-8



033103

 Dual detector Micra S-15

 Approval

G197558 (EMT), Class B

Technical Data

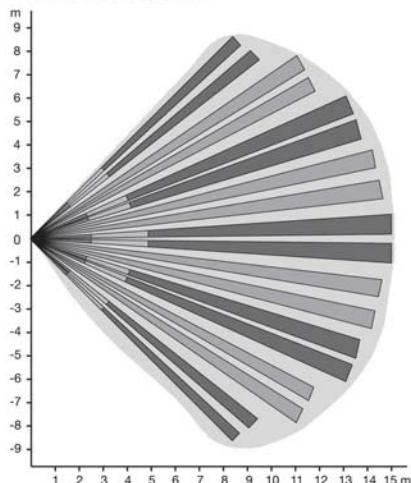
Range

15 m

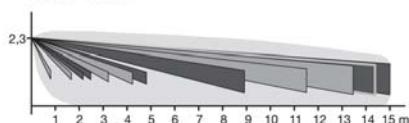
Dimensions (W x H x D)

68 x 115 x 50 mm

View from above



Side view



Detection range Micra S-15

Accessories:

033105 Wall mounting bracket LBP2

033106 Ceiling mounting bracket CMB 1

033107

 Dual detector Micra 360 - ceiling detector

 Approval

G197512 (EMT), Class B

Technical Data

Mounting height

2.4 m to 3.6 m

Range

8 m to 11 m, 360°

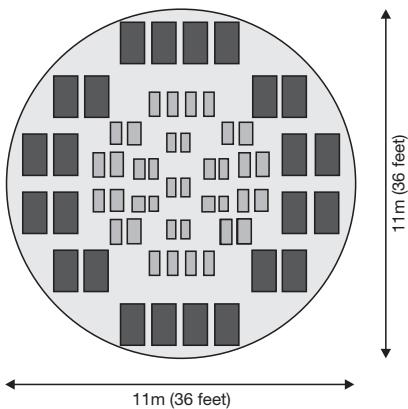
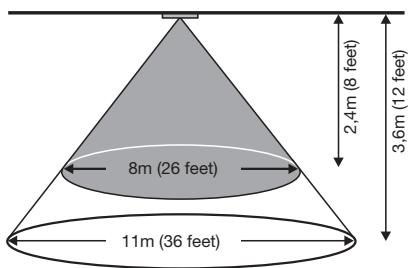
Dimensions (Ø x T)

108 x 32.2 mm

033140

**Dual ceiling detector Micra 360 / Universal connection module Bundle**

Dual ceiling detector Micra 360 (033107); Universal connection module Bundle (010112)



Detection range Micra 360

► Accessories

033104

**Wall mounting bracket LBP2**

For 033100, 033101, 033102, 033103.

Technical Data

Adjustment range

± 45 ° (horizontal and vertical)



25 units

033105

**Wall mounting bracket LBP2**

For 033100, 033101, 033102, 033103.

Technical Data

Adjustment range

± 45° (horizontal and vertical)

033106



Ceiling mounting bracket CMB1

For 033102, 033103.

Technical Data

Adjustment range

± 45° (horizontal and vertical)

► Dual motion detector Jupiter
Performance Features

- Conventional connection technology
- PIR and microwave detectors
- Microwave range can be set (20% to 100%)
- Range adjustment +5 ° to -15 ° vertical;
±90 ° horizontal
- Monitoring against covering
- Alarm memory

PIR detector with integrated microwave detector for high detection ranges.

The functional principle of the detectors is based on a connection of passive infrared and microwave by an AND operation. The detector is only triggered when both detector parts detect at the same time. This connection makes the detectors insensitive to air and heat turbulence.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	8.5 V to 16 V DC
Current consumption at rated voltage	max. 25 mA
Contact rating	potential-free NC contact, max. 24 DC/50 mA
Fault output	Open Collector max. 25 V/10 mA
Frequency	microwave: 24.125 GHz
Environmental class according to VdS	II
Protection type	IP 3X (according to EN 60529)
Alarm time	approx. 3 seconds
Dimensions (W x H x D)	100 x 170 x 120 mm
Colour	white (similar to RAL 9003)

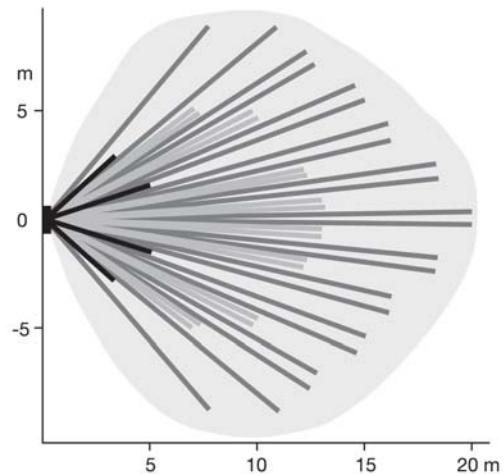
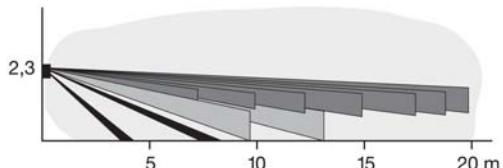
033110



Dual detector Jupiter Vol 20


 VdS Approval
G197529 (EMT), Class B**Technical Data**

Range	20 m
Microwave power	0.032 µW/cm² (at a distance of 1 m)
Dimensions (W x H x D)	100 x 170 x 120 mm

View from above**Side view**

Detection range Jupiter Vol 20

033111

||||| Dual detector Jupiter Vol 27



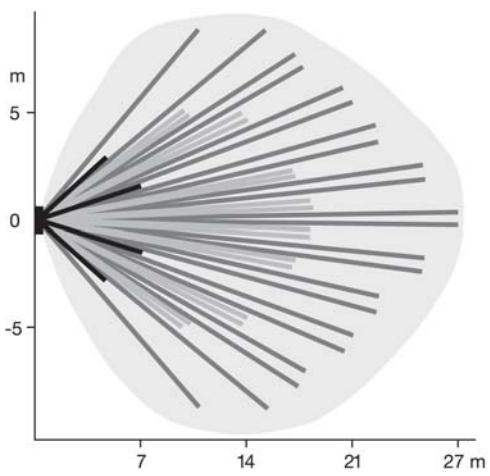
VdS Approval

G197530 (EMT), Class B

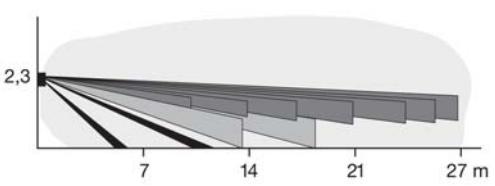
Technical Data

Range	61 m
Microwave power	0.032 µW/cm ² (at a distance of 1 m)
Dimensions (W x H x D)	100 x 270 x120 mm

View from above



Side view



Detection range Jupiter Vol 27

033112

||||| Dual detector Jupiter LR 61



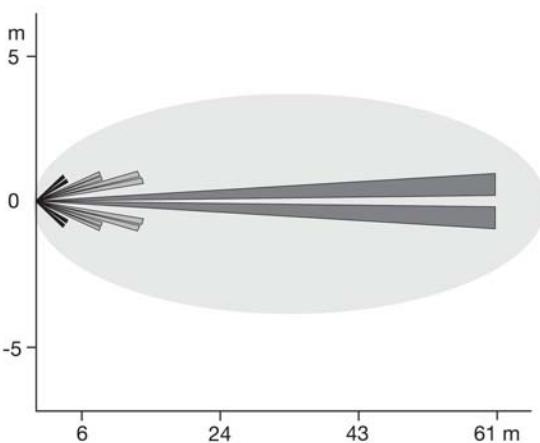
VdS Approval

G197531 (EMT), Class B

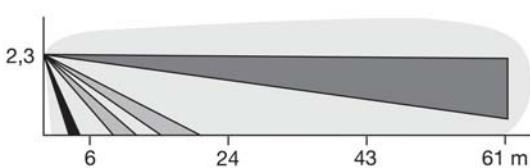
Technical Data

Range	61 m
Microwave power	0.1 µW/cm ² (at a distance of 1 m)
Dimensions (W x H x D)	100 x 270 x 120 mm

View from above



Side view



Detection range Jupiter LR 61

Microwave detector MX

Performance Features

- Conventional connection technology
- Microwave range can be set (20 % to 100 %), range adjustment +5 ° to -15 ° vertical, ±90 ° horizontal
- Interference suppression
- Monitoring against covering

The detectors MX 950 and MX 960 are pure microwave detectors. They are distinguished by their maximum range of 20 m and 30 m, respectively.

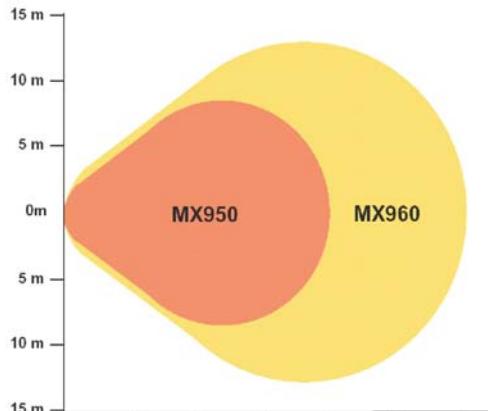
The sensitivity of the detector can be adapted to the ambient conditions. In certain application, this reduce the risk of false alarms.

To suppress the interferences when using several detectors, an MIR function has been integrated.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	8.5 V to 16 V DC
Current consumption at rated voltage	max. 25 mA
Contact rating	potential-free NC contact, max. 24 DC/50 mA
Fault output	Open Collector max. 25 V/10 mA
Frequency	microwave: 24.125 GHz
Protection type	IP 3X (according to EN 60529)
Alarm time	approx. 3 seconds
Dimensions (W x H x D)	90 x 140 x 125 mm
Weight	approx. 600 g
Colour	white, similar to RAL 9003

View from above



Side view



Detection range MX 950 / MX 960

033130



Microwave detector MX 950



VdS Approval

G197041 (EMT), Class C

Technical Data

Range	20 m
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033131



Microwave detector MX 960



VdS Approval

G197042 (EMT), Class C

Technical Data

Range	30 m
-------	------

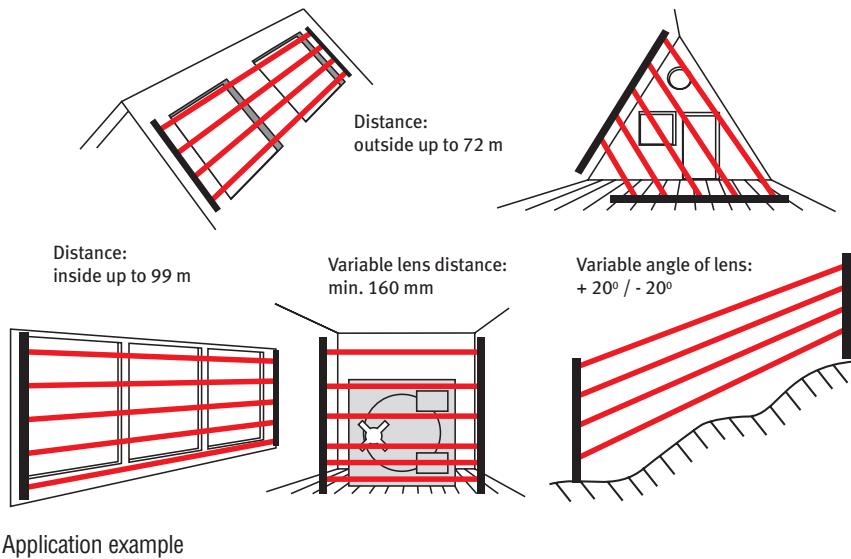
Inside**Performance Features**

- 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

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

Operating voltage range	9 to 35 V DC, 9 to 25 V AC, 50 Hz
Current consumption	at 12 V DC: normal 20 mA, max. 25 mA
Range	99 m indoor use
IR beam	890 nm, pulse code modulated
Setting angle	approx. $\pm 25^\circ$ horizontal, approx. $\pm 12^\circ$ vertical
Opening angle	receiver approx. 6° , transmitter approx. 6°
Response sensitivity	can be set between 25 and 500 ms
Relay	free of wear, max. 60 V / 0.2 A DC / AC
Inputs	Input current 100 μ A, capacitance 10 nF, max. 35 V DC or 25 V AC/ 50 Hz
Outputs	typ. 50 mA / 12 V DC, short circuit protected
Protection type	IP 54
Environmental class according to VdS	IV
Temperature range	+10°C to +75°C
Weight	approx. 0.5 kg (1 beam).
Colour	Eloxal: matte black



033080

| | | | | IRS 509 light barrier inside; 22 cm high, 1 beam



G 100029 (EMT), Class C

Technical Data

Temperature range	+10 °C to +75 °C
Dimensions (W x H x D)	40 x 220 x 40 mm

033081

| | | | | IRS 509 light barrier inside, 100 cm high, 3 beams



G 100029 (EMT), Class C

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



Approval

G 100029 (EMT), Class C

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



Approval

G 100029 (EMT), Class C

Technical Data

Dimensions (W x H x D)

40 x 2000 x 40 mm

Outside

Same as 033080, but including integrated heating.

Disqualification in the case of heavy rain, snowfall or fog (adjustable time constant 3 to 60 s)

Technical Data

Operating voltage

12V AC/DC

Current consumption

approx. 125 / 250 mA (one unit / pair)

Range

72 m outdoor use

Temperature range

-30° to +75°C with built-in heating

033084

||||| ||||| IRS 509 O light barrier inside; 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**

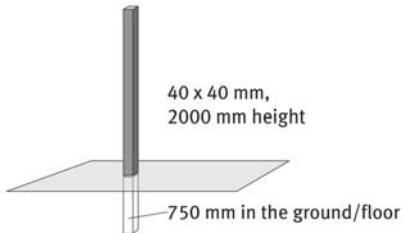
Suitable for indoor use or short distances outdoors

033091

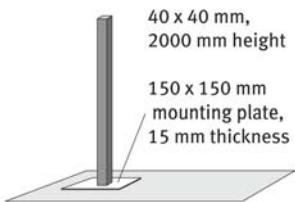
 **Adjusting device including stroboscope and adapter cable**

Suitable for outdoor use or large distances indoors.

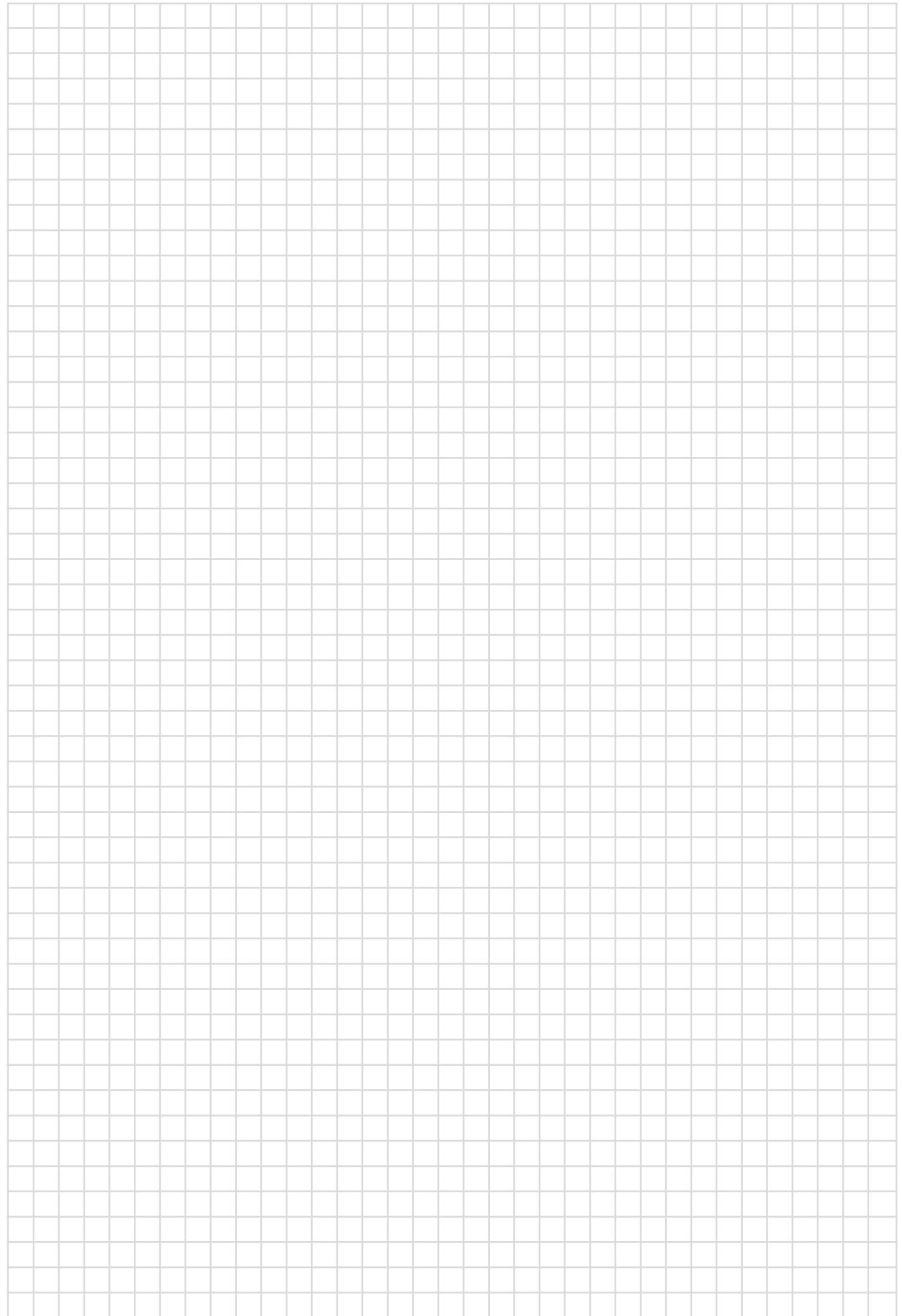
033095

 **Square profiled mast, black, for setting in concrete**

033096

 **Square profiled mast, black, including plate**





A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



1
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Radio program
Transponders
Display and operating units
Motion detectors

015180.10



4-channel radio interface, conventional



Via 4 input channels and a conventional detector group connection, the radio interface allows integration of radio users, such as radio hold-up manual transmitters, radio PIR detectors or the radio connection module. 4 relay outputs, optionally with or without storage, are available.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	36 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +60 °C
Environmental class according to VdS	II
Range in free space	150 m
Dimensions (W x H x D)	18 x 118 x 31 mm (excluding antenna)

Article to be discontinued by 31.12.2007

015121



Radio connection module



Module for connecting passive glass breakage sensors and magnetic contacts.

Technical Data

Closed-circuit current	10 µA
Current consumption while transmitting	50 mA
Power supply	9V block battery (alkali/manganese)
Life span of the battery	about 18 months (at 10 trigger operations/day)
Operating temperature range	-5°C to +45°C
Storage temperature range	-25°C to +60°C
Environmental class according to VdS	II
Range in free space	150 m
Dimensions (W x H x D)	73 x 93 x 25 mm

Article to be discontinued by 31.12.2007

Accessories:

018051 9 V alkali-manganese battery, block battery 9 V / 550 mAh

015135

**Remote radio operating unit, mobile**

The operating unit has a programmable pin code and is used for internal or external arming/disarming via the membrane keypad. Owing to its small size, the transmitter is easy to carry along at any time. When programmed accordingly, the operating unit may also be used as manual hold-up transmitter.

Technical Data

Power supply	6 V photo battery (lithium)
Life span of the battery	about 18 months (at 10 trigger operations/day)
Operating temperature range	-5°C to +45°C
Storage temperature range	-25°C to +60°C
Environmental class according to VdS	II
Range in free space	150 m
Dimensions (W x H x D)	40 x 79 x 17 mm

Article to be discontinued by 31.12.2007**Accessories:**

- | | |
|--------|--|
| 015137 | Holder for radio operating unit 015135 |
| 018053 | 6 V lithium battery, 6 V / 150 mAh |

015137

**Holder for radio operating unit 015135**

The holder is suitable for mounting the operating unit, for example, to the wall.

Article to be discontinued by 31.12.2007

015138

**Radio keypad, stationary**

Stationary keypad unit for indoors containing with membrane keypad. Suitable for triggering arming/disarming and other switching commands by radio. When programmed accordingly, the operating unit may also be used for triggering a hold-up alarm. The radio keypad has a programmable pin code.

Technical Data

Power supply	9V block battery (alkali/manganese)
Life span of the battery	about 18 months (at 10 trigger operations/day)
Operating temperature range	-5°C to +45°C
Storage temperature range	-25°C to +60°C
Environmental class according to VdS	II
Range in free space	200 m
Dimensions (W x H x D)	70 x 110 x 30 mm

Article to be discontinued by 31.12.2007**Accessories:**

- | | |
|--------|---|
| 018051 | 9 V alkali-manganese battery, block battery 9 V / 550 mAh |
|--------|---|

015115

 Manual radio hold-up transmitter


The manual hold-up transmitter has been designed purely for transmitting an emergency call to the control unit. In normal use, the hold-up key is covered by a slide, thus preventing false alarms.

Technical Data

Power supply	9V block battery (alkali/manganese)
Life span of the battery	about 18 months (at 10 trigger operations/day)
Operating temperature range	-5°C to +45°C
Storage temperature range	-25°C to +60°C
Environmental class according to VdS	II
Range in free space	200 m
Dimensions (W x H x D)	60 x 82 x 21 mm

Article to be discontinued by 31.12.2007

Accessories:

018051 9 V alkali-manganese battery, block battery 9 V / 550 mAh

015136

 Radio operating module


Module for internal arming/disarming via the integrated key-operated switch.

Technical Data

Closed-circuit current	15 µA
Current consumption while transmitting	50mA
Power supply	9V block battery (alkali/manganese)
Life span of the battery	about 18 months (at 50 trigger operations/day)
Operating temperature range	-5°C to +45°C
Storage temperature range	-25°C to +60°C
Environmental class according to VdS	II
Range in free space	150 m
Dimensions (W x H x D)	79 x 115 x 50 mm

 The module must not be mounted in flush-mounted box, since this would significantly reduce its range.

 Without profiled cylinder

Article to be discontinued by 31.12.2007

Accessories:

028032 Half cylinder
018051 9 V alkali-manganese battery, block battery 9 V / 550 mAh

015160



Radio PIR detector, area lens



The housing is designed for flat wall mounting or corner mounting. In addition, the ball joint (033588) can be mounted as an option for individual settings.

Technical Data

Closed-circuit current	15 µA
Current consumption while transmitting	50 mA
Power supply	9V block battery (alkali/manganese)
Life span of the battery	about 18 months (at 50 trigger operations/day)
Operating temperature range	-5°C to +45°C
Storage temperature range	-25°C to +60°C
Environmental class according to VdS	II
Range in free space	150 m
Range of area lens	8 m
Range of long range lens	15 m
Range of curtain lens	8 m
Dimensions (W x H x D)	72 x 103 x 56 mm

Article to be discontinued by 31.12.2007

Accessories:

- 018051 9 V alkali-manganese battery, block battery 9 V / 550 mAh
033588 Ball joint set for wall and corner mounting

015164



Radio PIR detector, curtain lens

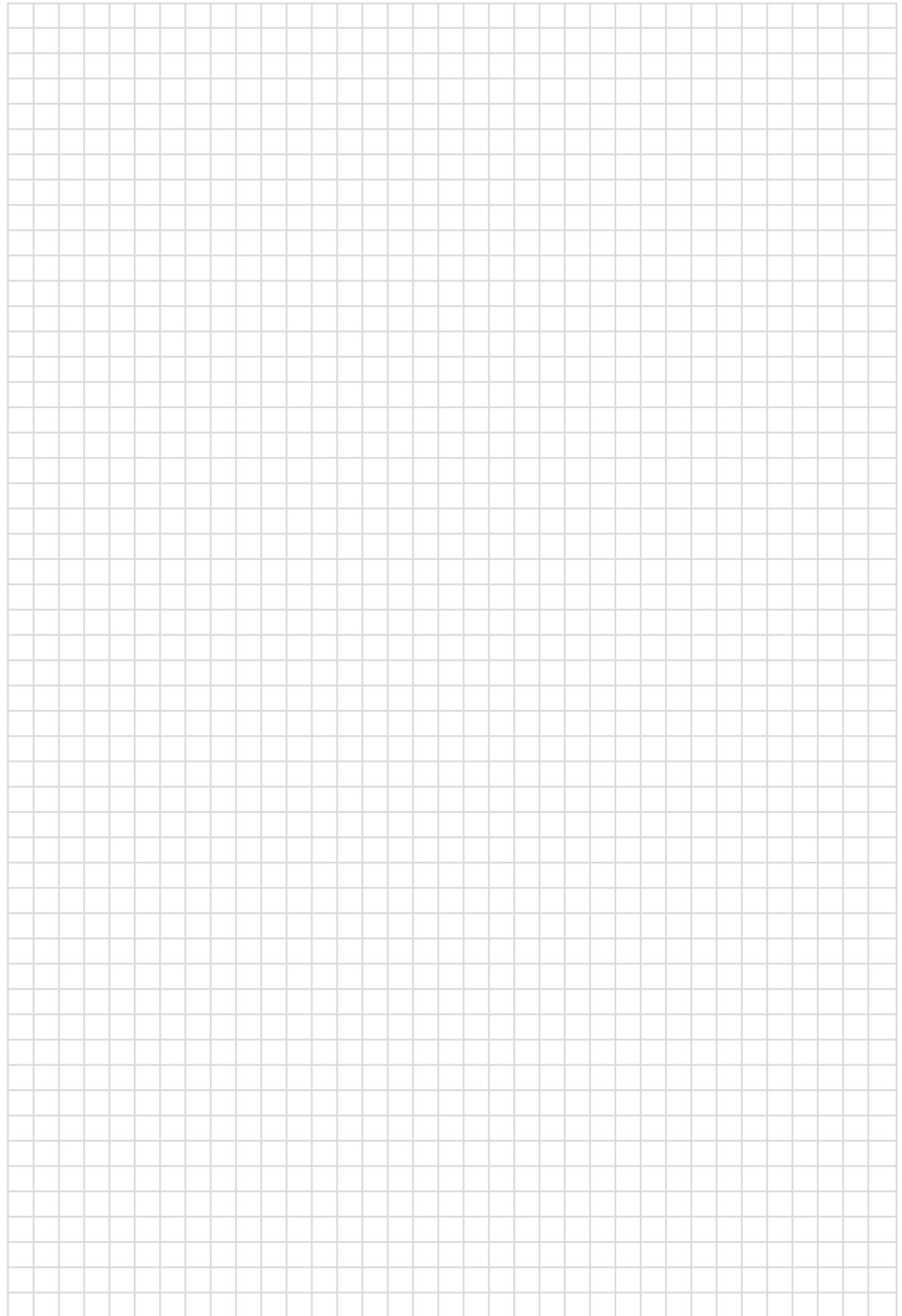
Article to be discontinued by 31.12.2007

015166



Radio PIR detector, long range lens

Article to be discontinued by 31.12.2007





11
Alarm contacts

IDENTLOC

Magnetic contacts

Mechanical contacts

Glass breakage detector

Seismic detector

Special detector

IDENTLOC

Performance Features

- VdS approval
- 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
- Up to 4 IDENTLOC sensors can be connected
- In addition, 1 rate-of-rise detector group with extinguishing function
- Tamper-proof
- In combination with the transmitter unit, each code carrier from the IDENT-KEY product series can be used, resulting in versatile applications
- 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 adapter
- 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 central unit.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Type of protection according to DIN 40050	Evaluating unit IP 40; sensors IP 67
Environmental class according to 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
Colour	grey-white, similar to RAL 9002



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.

032210



Conventional IDENTLOC evaluating unit



Performance Features

- Transmission and control function:
 - Disarmed input
 - Extinguishing function: extinguishing input
 - First alarm detection available
 - Alarm: potential-free relay contact
 - Tamper: direct cover contact

VdS Approval

G199014 (EMT), Class C

Conventional connection technology.

Technical Data

Current consumption at 12 V DC	max. 9 mA
Evaluating unit	per sensor 5.5 mA; per LED 3 mA
Contact rating	Relay contact (1 x change-over contact) 15 V/0.2 A; 15 V/0.2 A sabotage contact (cover contact)
Sensor connections	4 (IDENTLOC transmission unit); 1 (rate-of-rise detector group)
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	grey-white, similar to RAL 9002

032211



BUS-1 IDENTLOC evaluating unit



VdS Approval

G199018 (EMT), Class C

BUS-1 connection technology

Technical Data

Current consumption at 12 V DC	max. 9 mA
Evaluating unit	per sensor 5.5 mA; per LED 3 mA
Contact rating	Relay contact (1 x change-over contact) 15 V/0.2 A; 15 V/0.2 A sabotage contact (cover contact)
Sensor connections	4 (IDENTLOC transmission unit); 1 (rate-of-rise detector group)
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	grey-white, similar to RAL 9002

Performance Features

- Transmission and control functions:
 - Disarmed, extinguishing function, alarm, tamper

032220

**IDENTLOC transmission unit****VdS Approval****in connection with IDENTLOC sensors**

Transmission unit, mounted to the fixed part. (Required for each IDENTLOC sensor)

Technical Data

Range

Transmission transmitter - sensor max. 10 mm

Cable length

6 m

Dimensions (W x H x D)

61 x 9 x 9 mm



The range given is based on a mounting ground made of wood or plastic. When the ground is metal, transmitter and sensor must be mounted at a distance. Mounting in aluminium is not possible.

Accessories:

Fits:

032221.10 IDENTLOC Opening Sensor

032222.10 IDENTLOC Opening Sensor

032230.10 IDENTLOC Glass Breakage Sensor

032233 IDENTLOC Alarm Glass Sensor

032221.10

**IDENTLOC Opening Sensor****VdS Approval****G199015 (EMT), Class C**

Presence or opening monitoring

Technical Data

Dimensions (W x H x D)

61 x 9 x 9 mm



032222.10

**IDENTLOC Opening Sensor****VdS Approval****G199015 (EMT), Class C**

Same as 032221.10, but contains additionally a cable for window handle lock monitoring.

**Technical Data**

Cable length

2.50 m

Dimensions (W x H x D)

61 x 9 x 9 mm

032230.10

**IDENTLOC Glass Breakage Sensor****VdS Approval****G199509 (EMT), Class B**

Opening monitoring and monitoring for glass breakage. Suitable for windows or doors with glass insert.

Technical Data

Detection radius

2 m

Cable length

25 cm

Dimensions (W x H x D)

61 x 9 x 9 mm



032233

 IDENTLOC alarm glass sensor with cable

G199016 (EMT), Class C



Technical Data

Cable length

25 cm

Dimensions (W x H x D)

61 x 9 x 9 mm



IDENTLOC slimline sensors

Performance Features

- For use with almost all locks with multiple locking
- No replacement of original furnitures necessary
- The sensor can already mounted at the window or door manufacturer's or also later on without any problems.
- Type of protection IP 67

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.

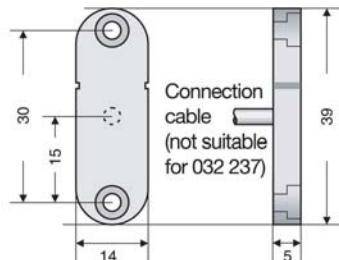
(If the gap is not wide enough, transmitter and sensor can be embedded). For the opening and lock monitoring of windows or doors with multiple locking and concealed push rod, a special locking sensor is available. The sensor is mounted to the push rod of the lock. A transmission between transmitter and sensor is only possible when the window or door is closed and the handle is locked.



It can be operated in metal profiles (e.g. aluminium frame).

slimline sensor series:
Transmission unit and sensors

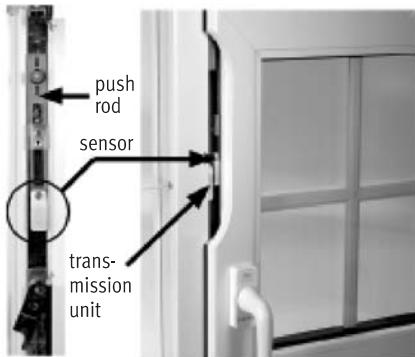
Dimensions (mm)



Installation example:



opening sensor
transmission unit



Mounting example (dimensions in mm)

032235



IDENTLOC slimline transmitter

Approval

same as the corresponding sensor



Transmission unit, mounted to the fixed part.
(Required for each Slimline sensor counter unit).

Technical Data

Range	Transmission transmitter - sensor max. 10 mm
Transmission distance	2 to 5 mm
Cable length	6 m
Dimensions (W x H x D)	39 x 14 x 5 mm

032236



IDENTLOC slimline locking sensor

Approval

G101073 (EMT), Class C



Opening and lock monitoring of windows and doors with multiple locks and concealed push rod.

Technical Data

Transmission distance	2 to 5 mm
-----------------------	-----------

032237



IDENTLOC slimline opening sensor

Approval

G101074 (EMT), Class C



Presence or opening monitoring Opening and lock monitoring of windows and doors with multiple locks and exposed push rod.

Technical Data

Range	Transmission transmitter - sensor max. 10 mm
Transmission distance	2 to 5 mm
Cable length	6 m
Dimensions (L x W x H)	39 x 14 x 5 mm

032238



IDENTLOC slimline Glass Breakage Sensor

Approval

G101519 (EMT), Class B



Opening monitoring and monitoring for glass breakage. Suitable for windows or doors with glass insert.

Technical Data

Detection radius	2 m
Transmission distance	2 to 5 mm
Cable length	25 cm
Dimensions (W x H x D)	39 x 14 x 5 mm

032241



IDENTLOC alarm glass sensor, slimline with cable

Approval

G101075 (EMT), 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 distance	2 to 10 mm
Cable length	25 cm
Dimensions (L x W x H)	39 x 14 x 5 mm

 Accessories

032215

 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.

032232

 IDENTLOC cable for window handle lock monitoring

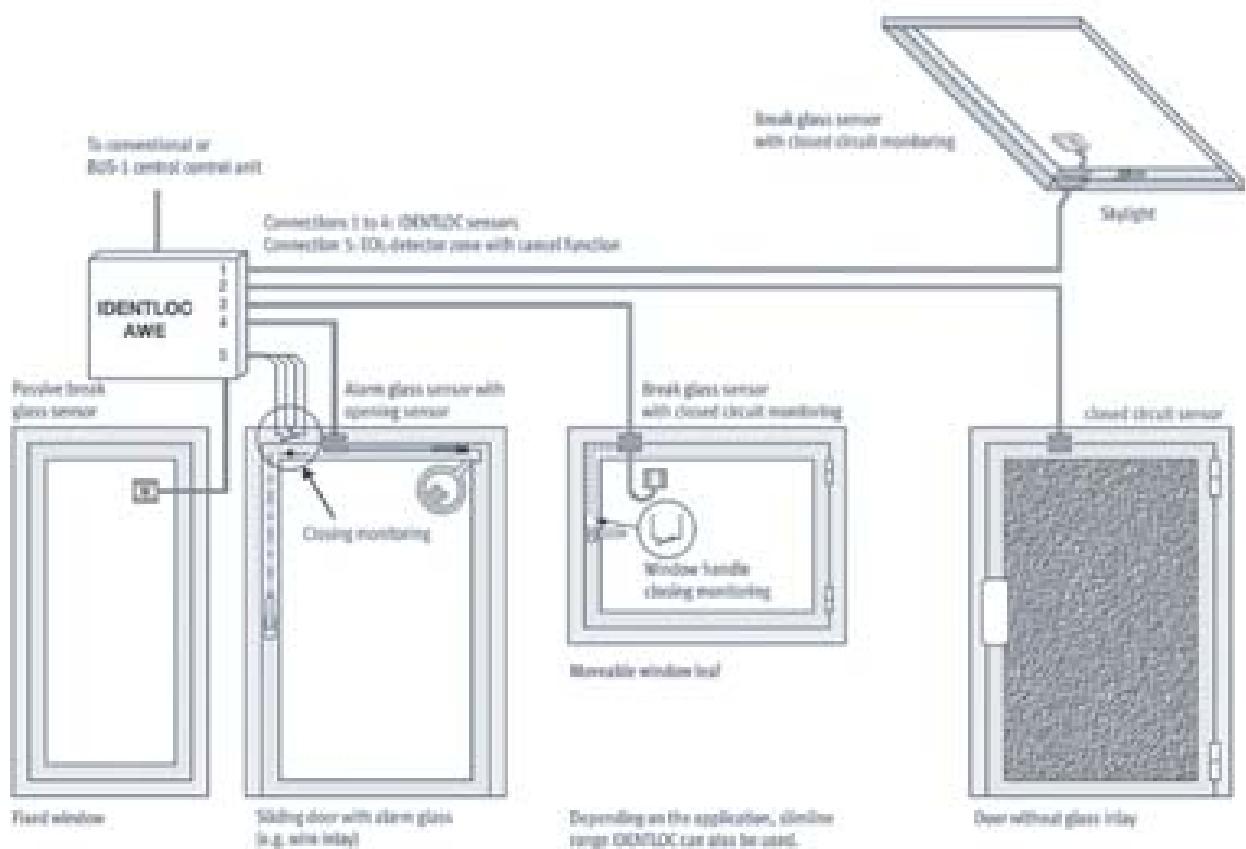
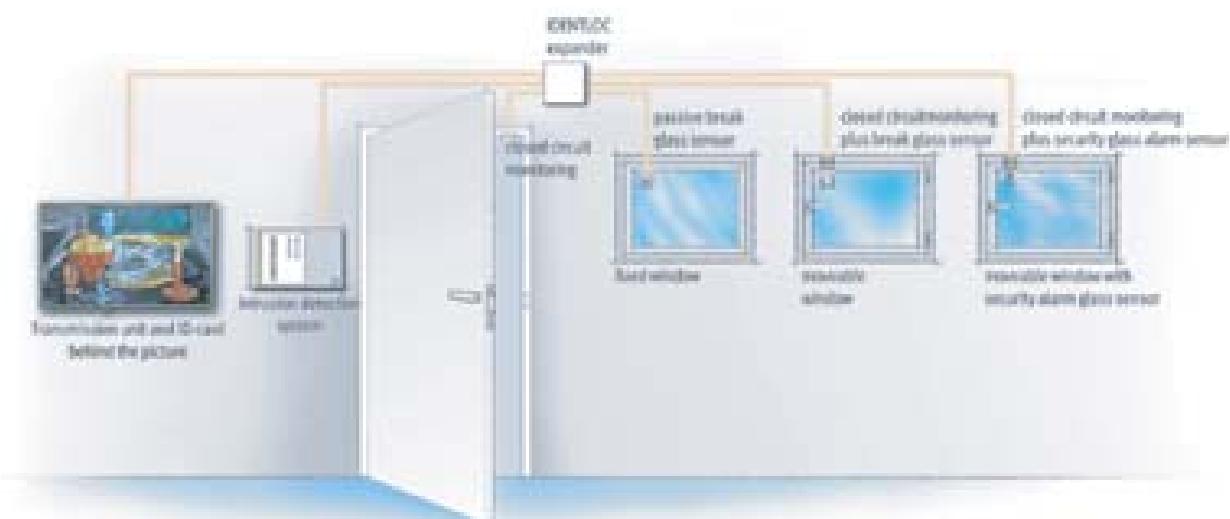
For Art. Nos. 032230.10 and 032231.10.

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. |
| 030810.16 | Surface-mounted base for height adjustment,
12 per packaging unit in different heights for IDENTLOC sensors |
| 030110 | Surface-mounted base for slimline sensors, 12 per packaging unit |

 Planning examples



► Recessed, flat, universal and block-type reed contacts

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 or 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 in 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 reports 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 according to VdS
Dimensions (W x H x D)

III

Recessed reed contact Class A/B 60 x 9 x 9 mm;

recessed reed contact Class C/

flat reed contact 60 x 11 x 9 mm;

block-type reed contact 65 x 13 x 14 mm

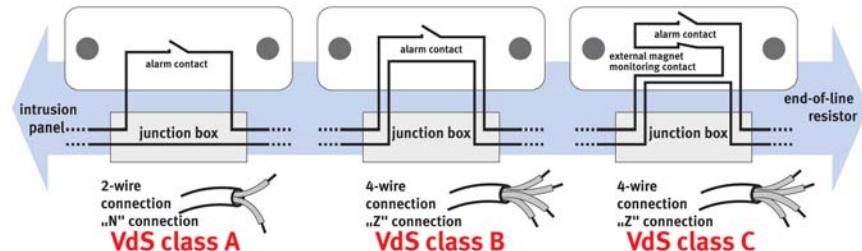
Round reed contact with flange 10 x 30 mm;

round reed contact without flange 8.3 x 30 mm;

universal reed contact 8 x 25 mm

Dimensions (Ø x T)

"N" and "Z" wiring



► VdS Approval Class A

030000.16



Recessed reed contact "N"

Approval

G193703 (EMT), Class A

Technical Data

Connection

2-wire

Cable length

6 m

Colour

pure white, similar to RAL 9010



Magnet

Alarm contacts

Magnetic contacts

030001.16



Flat reed contact "N", white, 6 m



Approval

G193704 (EMT), Class A

With cross hole attachment.

Technical Data

Connection	2-wire
Cable length	6 m
Colour	pure white, similar to RAL 9010

030002.16



Flat reed contact "N", white, 6 m



Approval

G193705 (EMT), Class A

Technical Data

Connection	2-wire
Cable length	6 m
Colour	pure white, similar to RAL 9010

030010.16



Round reed contact "N", white, 6 m



Approval

G193706 (EMT), Class A

With flange.

Technical Data

Connection	2-wire
Cable length	6 m
Colour	pure white, similar to RAL 9010

082001.16



Universal reed contact "N", white, 6 m



Approval

G196719 (EMT), Class A

Technical Data

Connection	2-wire
Cable length	6 m
Colour	pure white, similar to RAL 9010

VdS Approval Class B

030200.16



Recessed reed contact "Z", white, 6 m



Approval

G191551 (EMT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	pure white, similar to RAL 9010

Alarm contacts

Magnetic contacts

030241.16



Recessed reed contact "Z", brown, 6 m



Approval

G191551 (EMT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030201.16



Flat reed contact "Z", white, 6 m



Approval

G191552 (EMT), Class B

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	pure white, similar to RAL 9010

030243.16



Flat reed contact "Z", brown, 6 m



Approval

G191552 (EMT), Class B

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030202.16



Block-type reed contact "Z", white, 6 m



Approval

G191554 (EMT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	pure white, similar to RAL 9010

030245.16



Block type reed contact "Z", brown, 6 m



Approval

G191554 (EMT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

Alarm contacts

Magnetic contacts

030211.16



Round reed contact "Z", white, 6 m



Approval

G 191553 (EMT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	pure white, similar to RAL 9010

Metal mounting requires 030296.

Magnet

030249.16



Round reed contact "Z", brown, 6 m



Approval

G 191553 (EMT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

Metal mounting requires 030296.

Magnet

082003.16



Universal round reed contact "Z", white, 6 m



Approval

G 196637 (EMT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	pure white, similar to RAL 9010

Metal mounting requires 030296.

Magnet

082013.16



Universal reed contact "Z", brown, 6 m



Approval

G 196637 (EMT), Class B

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 9010

Metal mounting requires 030297.

Magnet

Alarm contacts

Magnetic contacts

030210.16



Round reed contact "Z", white, 6 m



Approval

G191579 (EMT), Class B

With flange.



Technical Data

Connection	4-wire
Cable length	6 m
Colour	pure white, similar to RAL 9010

030247.16



Round reed contact "Z", brown, 6 m



Approval

G191579 (EMT), Class B

With flange.



Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030100.16



Universal reed contact slimline "Z", white, 6 m



Approval

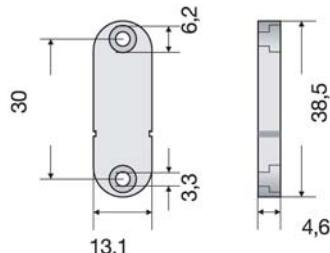
G101528 (EMT), Class B

Technical Data

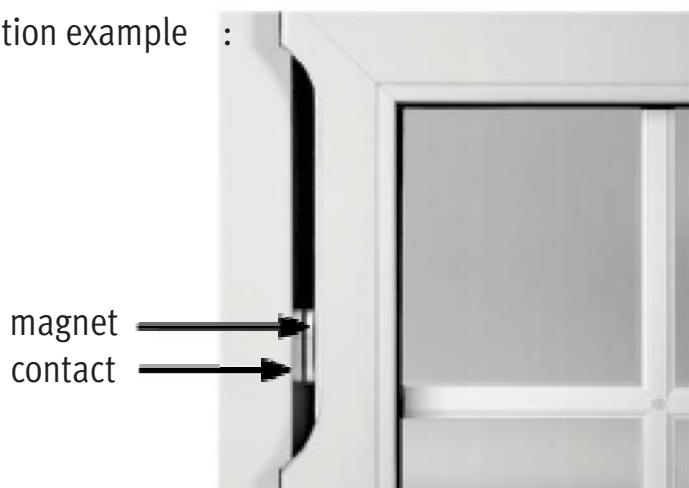
Transmission distance	max. 10 mm
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Dimensions (mm)



Installation example :



Dimensions (mm)

032245

**Locking sensor with magnetic contact****VdS Approval****G104043 (EMT), Class C**

Opening and lock monitoring of windows and doors with multiple locks and concealed push rod.

Technical Data

Transmission

Distance between housings 1 mm to 10 mm;

lateral offset max. 3 mm

Protection type

IP 67 (according to DIN 40050/EN 60529)

Environmental class according to VdS

III

Operating temperature range

-25 °C to +60 °C

Connecting cable

4 x 0.14 mm²

Length of connecting cable

6 m

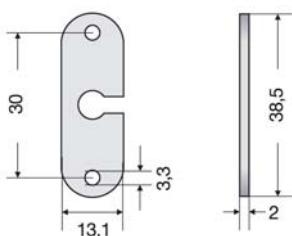
Accessories:

030110.16 Surface mounted base for Slimline sensors

030110.16

**Surface mounted base for Slimline sensors****12 units**

Dimensions in mm

**VdS Approval Class C**

030270.16

**Recessed reed contact "Z", white, 6 m****VdS Approval****G191013 (EMT), Class C****Technical Data**

Connection

4-wire

Cable length

6 m

Colour

pure white, similar to RAL 9010

**Magnet**

030271.16

**Recessed reed contact "Z", brown, 6 m****VdS Approval****G191013 (EMT), Class C****Technical Data**

Connection

4-wire

Cable length

6 m

Colour

brown, similar to RAL 8017

**Magnet**

030260.16

**Flat reed contact "Z", white, 6 m****VdS Approval****G191014 (EMT), Class C**

With cross hole attachment.

Technical Data

Connection

4-wire

Cable length

6 m

Colour

pure white, similar to RAL 9010

**Magnet**

030261.16



Flat reed contact "Z", brown, 6 m



Approval

G191014 (EMT), Class C

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 (EMT), Class C

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	admissible max. 40 V
Switching voltage	max. 100 V DC
Voltage stability	1 sec. 150 V DC
Switching current	max. 0.5 A
Contact rating	max. 10 W
Type of protection according to DIN 40050	IP 68
Environmental class according to VdS	III
Operating temperature range	-25 °C to +70 °C
Contact	NO contact, 1-pin
Housing material	PS, ABS, PA 30 % glass fibre
Connecting cable	LIYY 4 x 0.14 mm, ZGL (suitable for the IDC 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 case)
Colour	White

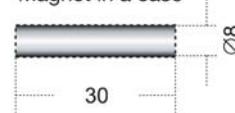
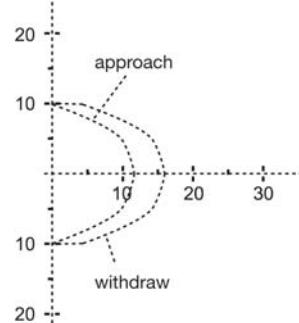
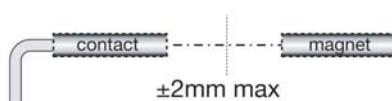


1 x Reed contact with moulded connecting cable; 2 x installation flange, white;
2 x installation flange, brown; 4 x fixing screws 2.9 x 9.5 / V2A, DIN 7981

Contact



Magnet in a case

**Distance diagram****Installation instruction**

Only face-to-face installation.
Side installation offset: ±2mm max

Dimensions (mm)

 Accessories

030800.16



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	12mm
Colour	pure white, similar to RAL 9010

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

030802.16



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	pure white, similar to RAL 9010

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

030810.16



Surface-mounted base for flat reed contacts



Suitable as mounting aid for height compensation.

12 at different heights

030813



Surface-mounted base for flat reed contacts



Suitable as mounting aid for height compensation.

Technical Data

Colour

brown, similar to RAL 8017

12 at different heights

030811.16



Surface-mounted base for block-type reed contacts



Suitable as mounting aid for height compensation.

Technical Data

Colour

pure white, similar to RAL 9010

6 at 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 at the same height (4 mm)

030801.16



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

pure white, similar to RAL 9010

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

Alarm contacts

Magnetic contacts

082402.16



Surface mounted housing for universal reed contacts



Technical Data

Colour

pure white, similar to RAL 9010



082412



Surface mounted housing for universal reed contacts



Technical Data

Colour

brown, similar to RAL 8017



082403.16



Spacer plates for surface mounted housing



Technical Data

Colour

pure white, similar to RAL 9010



082413



Spacer plates for surface mounted housing



Technical Data

Colour

brown, similar to RAL 8017



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

traffic-white, 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

Alarm contacts

Blocking bolt

019101

 Blocking bolt for normal doors/windows



Technical Data

Blocking force
Material

35 N corresponding to 3.5 kp
Bolt: brass, housing: brass, nickel-plated

019103

 Blocking bolt for heavy doors/windows



VdS Approval

G196039 (EMT), Class C

Technical Data

Blocking force
Material

150 N corresponding to 15 kp
Bolt: steel, nickel-plated, housing +
fixing bracket: zinc die-cast
hammertone enameled

019105

 Blocking bolt with adjusting option



VdS Approval

G196040 (EMT), Class C

For use in combination with the surface mounting kit 019106.

Technical Data

Blocking force
Material

35 N corresponding to 3.5 kp
Bolt / press-open plate / housing: brass,
nickel-plated

 Counter plate including 2 fixing screws and counternut

019106

 Surface mounting kit



For fixing the setting for blocking bolt 019105.

 Mounting plate and counternut

Alarm contacts

Sliding door contacts

031065



Sliding door contact in plastic housing



VdS Approval

G196648 (EMT), Class B and VSÖ test number 961216/12

Technical Data

Switching voltage	max. 100 V DC
Voltage stability	150 V DC, 1 sec.
DC switching current max.	0.5 A
Contact rating	10 W
Temperature range	-25 °C to +70 °C
Type of protection according to DIN 40050	IP 68
Environmental class	III (according to VdS 2110)
Response distance for magnet type	100 51 MKS / 45 mm
Cable length	2 m (LIYY 4 x 0.14 mm ²)
Protective tube	Stainless steel 0.5 m
Housing material	Polyamide GF, grey
Dimensions (W x H x D)	Contact housing: 159 x 19 x 40 mm, Mounting housing: 100 x 40 x 35 mm

031066



Sliding door contact in plastic housing



VdS Approval

G196066 (EMT), Class C, VSÖ test number 961216/11

Technical Data

Switching voltage	max. 100 V DC
Voltage stability	150 V DC, 1 sec.
DC switching current max.	0.5 A
Contact rating	10 W
Type of protection according to DIN 40050	IP 68
Environmental class	III (according to VdS 2110)
Response distance for magnet type	100 53 MKS / 27 mm
Cable length	2 m (LIYY 4 x 0.14 mm ²)
Protective tube	Stainless steel 0.5 m
Housing material	Polyamide GF, grey
Dimensions (W x H x D)	Contact housing: 159 x 19 x 40 mm, Mounting housing: 100 x 40 x 35 mm

031067



Sliding door contact in aluminium housing



VdS Approval

G191525 (EMT), Class B and VSÖ test number 961021/41

Technical Data

Switching voltage	max. 200 V
Voltage stability	250 V 1 sec.
DC switching current max.	0.5 A
Contact rating	10 watts
Type of protection according to DIN 40050	IP 68
Environmental class	III (according to VdS 2110)
Response distance for magnet type	100 51MKS / 50 mm
Cable length	2 m (LIYY 4 x 0.14 mm ²)
Protective tube	Brass 0.5 m
Housing material	Aluminium, grey
Dimensions (W x H x D)	Contact housing: 230 x 13 x 45 mm, Magnet case: 100 x 0 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
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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 recessed in the frame.

Technical Data

Contact load min.	1.5 V DC/10 µA
Contact load max.	30 V DC/100 mA

031000



Cone contact

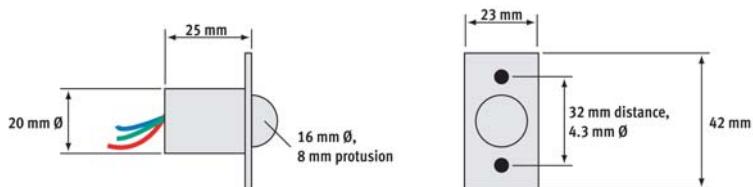


G17207 (EMT), Class C

With alternating contact.

Technical Data

Dimensions (W x H x D x Ø)	23 x 42 x 25 x 20 mm
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Dimensional drawing (mm)

031001



Pin contact

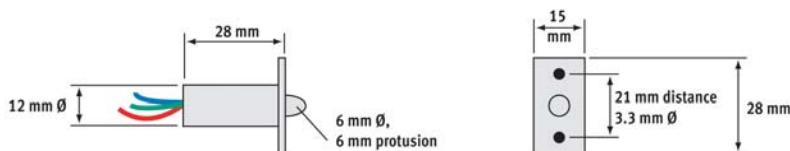


G17208 (EMT), Class C

With alternating contact.

Technical Data

Dimensions (W x H x D x Ø)	15 x 28 x 28 x 12 mm
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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



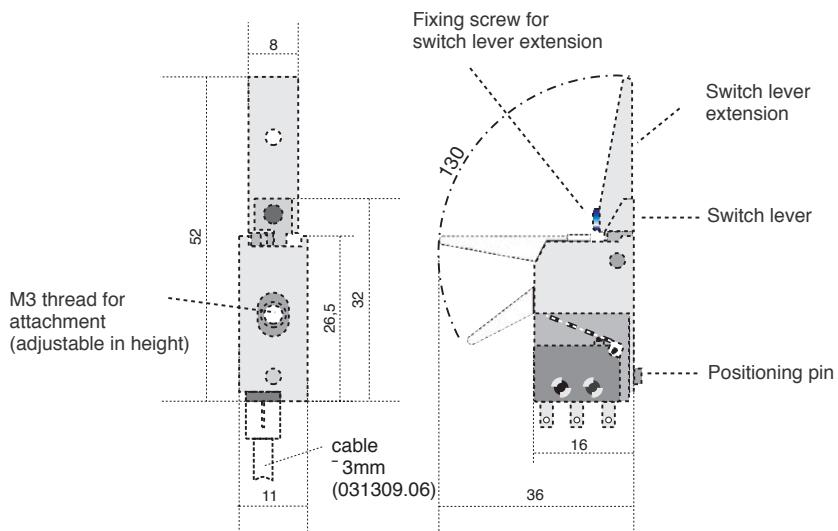
Electro-mechanical contacts provided with snap-action switching mechanism used for lock monitoring of doors. They are embedded inaccessibly in the striking plate of the door frame and are actuated by the lock bolt when the door is closed.

These bolt switching contacts are distinguished by a particularly low mounting depth and an adjustable switching point.

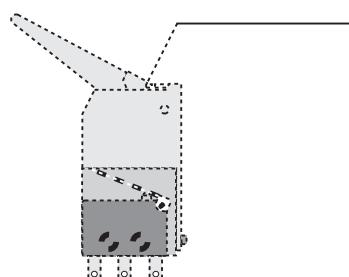
The mounting aid included in the delivery, which can be used as drilling template and as handle during mounting, makes for easy mounting.

Technical Data

Switching capacity max.	30 V DC / 100 mA
Switching capacity min.	1.5 V DC/10 µA (resistive load)
Type of protection according to DIN 40050	with soldering connection interior IP 67, connections IP 00; with moulded cable IP 67
Operating temperature range	-40 °C to +70 °C



Adjusting the switching point



By means of a small grub screw the switching point can be changed in dependence of the bolt lenght by an enclosed Allen key.

Dimensions (mm)

 VdS Class C

031308

 Bolt switching contact

Approval G100024 (EMT), Class C

With soldering connection.



Not suitable for outer doors.



031309.06



Bolt switching contact



Approval G100023 (EMT), Class C

Not suitable for outer doors.



With solidly mounted connection cable, 6m.



031304



Bolt switching contact, high switching capacity



Compact design made of Zn die-casting, easy and quick mounting, safe and variable adjustment via holding screw. No limit to bolt throw.

Technical Data

Switching capacity max.

250 AC / 10 A

Switching capacity min.

12V DC / 100 mA

Type of protection according to DIN 40050

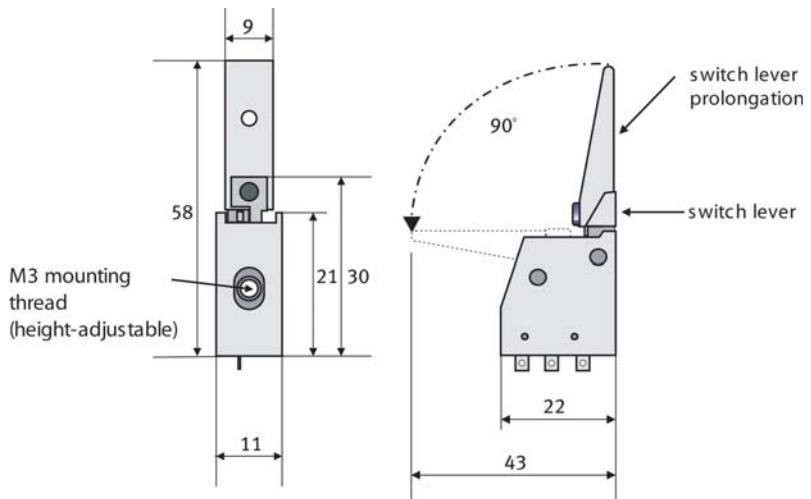
Interior: IP 67, terminals: IP 00

Ambient temperature

-40 °C to +70 °C with silicone sleeve

Dimensions (W x H x D)

10 x approx. 35 x 23 mm



Alarm contacts

031300



Bolt switching contact in zinc die-cast housing



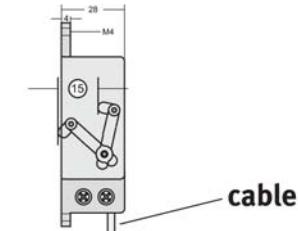
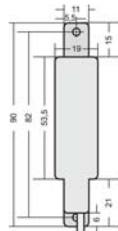
Heavy-duty, particularly stable design.

Technical Data

Switching capacity max.	42 V AC / 1.5 A
Switching capacity min.	12 V DC / 100 mA (resistive load)
Cable length	4 m
Bolt throw	max. 15 mm
Switching distance	approx. 4 mm
Dimensions (W x H x D)	18 x 94 x 28 mm
Pocket	18 x 53 (66) mm

With 3-wire connecting cable.

Dimensions (mm)



cable

031311



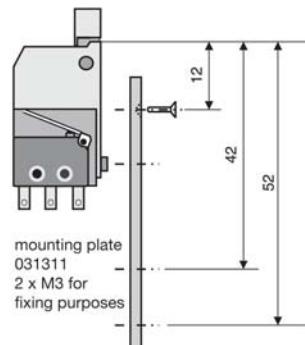
Mounting plate



If the bolt switching contact has to be set higher in the presence of large recesses, the mounting place can serve as extension.

5 units

Dimensions (mm)



031102



Trip wire switch with cover contact



Approval

G17214 (EMT), Class C

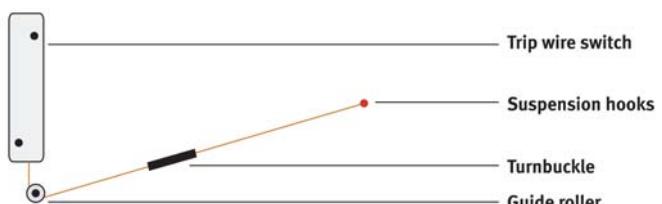
For use, for example, in dormer windows, ventilation elements, emergency exits, showcases, etc. that are not opened, but must be monitored, or as trip hazard. The trip wire contact, due to the built-in reed contact, works both on traction and cord breakage.

Includes change-over contact for Z wiring.

Technical Data

Switching voltage	max. 30 V DC
Switching current	max. 100 mA DC (resistive load)
Dimensions (W x H x D)	30 x 90 x 15 mm

Mounting example



Alarm contacts

Trip wire switch

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 breaking force
Dimensions (\varnothing)

100 N
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

Switching voltage	max. 30 V DC
Switching current	max. 100 mA
Dimensions (W x H x D)	flush mounted 20 x 86 x 22 mm; surface mounted 24 x 76 x 15 mm
Colour	white, brown

031204

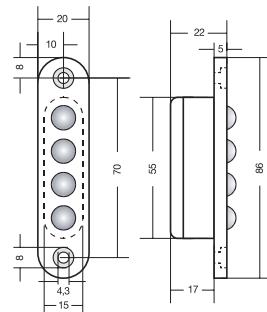
||||||| Recessed tappet contact, 4-pin, white



VdS Approval

G176142 (EMT), Class C

Dimensions (mm)



031207

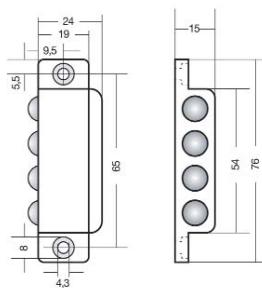
||||||| Screw-on tappet contact, 4-pin, white



VdS Approval

G176145 (EMT), Class C

Dimensions (mm)



031208

||||||| Surface mounted base for screw-on tappet contact, white



1 set = 3 pieces 2 mm, 3 mm and 5 mm

Alarm contacts

Tappet contacts

031203

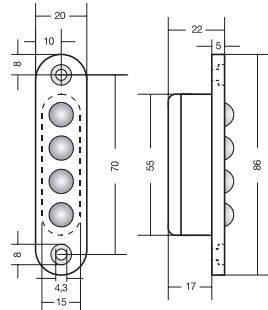
||||||| Recessed tappet contact, 4-pin, brown



VdS Approval

G176142 (EMT), Class C

Dimensions (mm)



031206

||||||| Screw-on tappet contact, 4-pin, brown

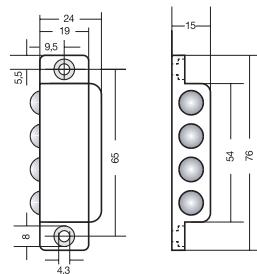


VdS Approval

G176145 (EMT), Class C

Article to be discontinued by 31.12.2006

Dimensions (mm)



031800

||||||| Surface mounted base for screw-on tappet contact, brown



1 set = 3 pieces 2 mm, 3 mm and 5 mm

Article to be discontinued by 31.12.2006

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**

Approval

G102526 (EMT), Class B**Technical Data**

Dimensions (W x H x D)	22 x 28 x 8 mm
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031580

**Alarm wall paper**

Approval

G195022 (EMT), 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**

Rear side	95 g/m ² heavy, wood-containing paper
Front side	120 g/m ² heavy, high-quality duplex paper with wax-like coating
Alarm wire	Cu, Ø 0.3 mm, coated
Wire resistance	0.25 Ohm per m of alarm wire, 1. Ohm per wall paper width, 2.8 Ohm per m ² of wall paper
Wire spacing	approx. 88 mm
Dimensions (L x W)	10.5 x 0.53 m

031581

**Wall paper terminal strip**

With cover contact.

**Technical Data**

Alarm contact	30 V /2 A
Material	Distributor rail (lower part): hard paper; cover strip: PVC
Dimensions (L x W x H)	530 x 19 x 5 mm, distributor rail (lower part): 50 x 20 x 22 mm (U profile, 1,5 mm), cover strip

Acoustic glass breakage sensor DETEKT 1000

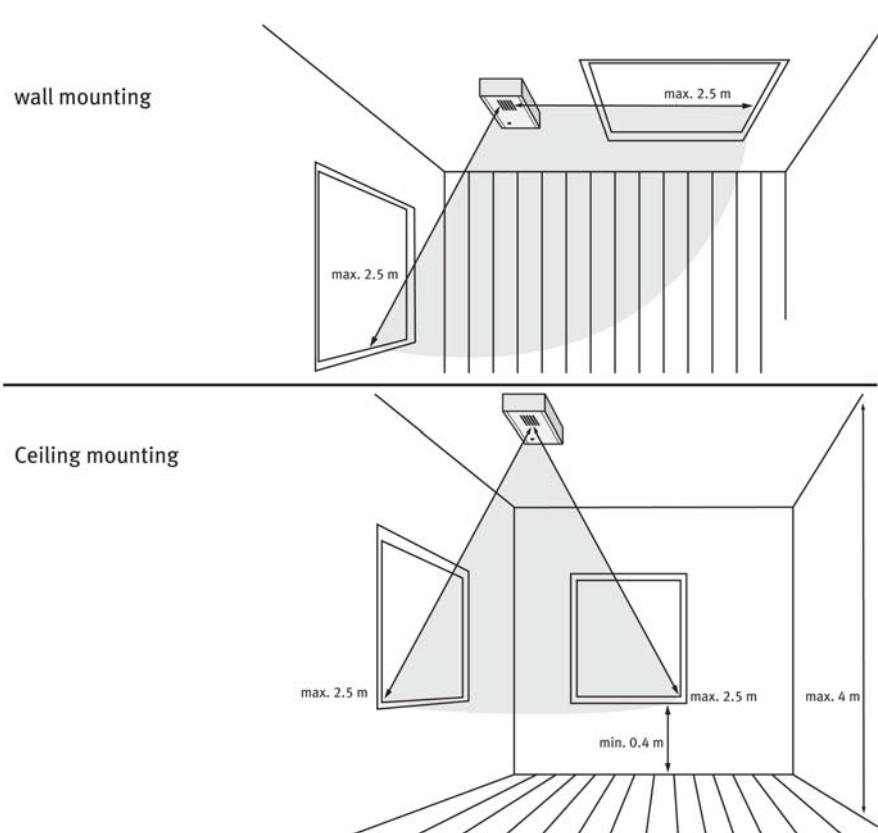
DETEKT 1000 is an acoustic glass breakage detector. It monitors windows for breakthrough, without the detector and the glass pane to be monitored being in direct contact.

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 in case of alarm	max. 5 mA (12 V)
Environmental class according to VdS	II
Type of protection according to DIN 40050	IP 30
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Startup time	max. 10 sec.
Alarm time	Pulse 1 sec. to 6.2 sec. (typically 2.5 sec.)
Monitored glass surface areas	0.25 m ² to 18 m ²
Monitored room volume	20 m ³ to 250 m ³
Monitoring angle	180 °
Housing	ABS
Dimensions (W x H x D)	73 x 97 x 43 mm
Weight	max. 150 g
Colour	grey-white, similar to RAL 9002

 Corner mounting adapter



Application example of the monitored areas

032420**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.

► 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.

032209**Adapter for manual tester**

Required for using the manual tester with detector pull-down rod.

060427**Plastic telescope rod**

Pull-out detector pull-down rod made of glass-fibre-reinforced plastic for adapting the detector removal tool Art. No. 805580 and the testers of Art. Nos. 060425, 060429 and 805582.

Technical Data

Length

max. 4.5 m

060426**Telescope extension**

Telescope extension for plastic telescope rod Art. No. 060427. Up to 3 telescope extensions can be adapted to the telescope rod. This increases the max. working height that can be achieved to 9 m.

Technical Data

Length

1.13 m

Acoustic glass breakage detector GT2

160435.10



Acoustic glass breakage detector AGB 600

**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 GT2
- Acoustic functional test over the entire range of action
- Optimised for objects single- and multiple-glazed with simple window glass

**G103505 (EMT), Class B**

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.

Technical Data

Operating voltage	8 V DC - 16 V DC
Current consumption	when idle 3.2 mA max. upon alarm 8 mA
Undervoltage detection	upon alarm < 3.5 V
Alarm output	semiconductor relay, opens on alarm 30 V DC, 100 mA
Sabotage Contact	30 V DC, 100 mA
Protection type	IP 31 (according to IEC)
Environmental class according to VdS	II
Humidity	< 95% of rel. humidity, no condensation
Storage temperature	-20 °C to +60 °C
Operating temperature	-10 °C to +55 °C
Colour of housing	white
Weight	approx. 0.150 kg
Dimensions (W x H x D)	60 x 80 x 23 mm

160436



Tester for acoustic glass breakage detector AGB 600



Without 9 V block battery

Passive glass breakage sensor

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

Closed-circuit current consumption	max. 1 µA
Environmental class according to VdS	II
Type of protection according to DIN 40050	IP 67
Operating temperature range	-10 °C to +70 °C
Storage temperature range	-25 °C to +70 °C
Detection radius	200 cm, independent of the glass thickness
Dimensions (L x W x H)	22 x 22 x 12.2 mm



Not suitable for plastic disks

Accessories:

032256.01	Sensor tester for passive glass breakage sensors
032265	Silicone glue RTV
032266	Contact spray
032267	Glass/metal gluing set Loctite 317
055260	Glass/metal gluing set Loctite 319

032272.16



Mini glass breakage sensor "Z", white, 6 m



VdS Approval

G182513 (EMT), Class B



Technical Data

Cable length	6 m
Cable	Cable suitable for the IDC method of termination
Dimensions (L x W x H)	22 x 22 x 12.2 mm
Colour	grey-white, similar to RAL 9002

032274.16



Mini glass breakage sensor "Z", brown, 6 m



VdS Approval

G182513 (EMT), Class B



Technical Data

Cable length	6 m
Cable	Cable suitable for the IDC method of termination
Dimensions (L x W x H)	22 x 22 x 12.2 mm
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.

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► Active glass breakage sensor

170080

Active glass breakage sensor MAGS-E



G193087 (EMT), 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
Nominal voltage	12 V DC
Closed-circuit current	< 22 mA at 12 V DC
Switch-on current	max. 28 mA
Sensor cable length (transmitter/receiver)	6 m, Ø 1.8 mm
Monitoring area	max. 14 m ² to 25 m ²
Ambient temperature	transmitter/receiver -40°C to +85°C; evaluating unit -10°C to +75°C
Protection type	IP 31
Colour	pure white, similar to RAL 9003
Weight	Transmitter/receiver approx. 2 g, evaluating unit approx. 450 g
Dimensions transmitter/receiver	Ø 14 mm, height 6 mm
Dimensions evaluating unit (W x H x D)	110 x 95 x 25 mm

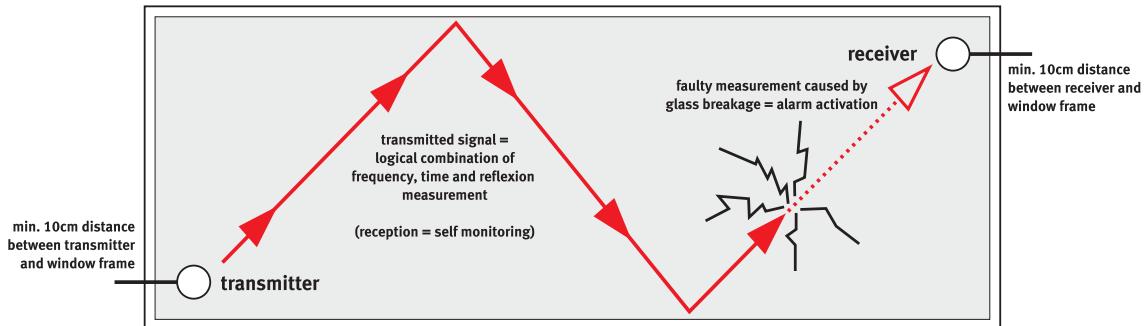


Not suitable for plastic disks. For specific composite glass panes and bullet-proof glass panes, 2 additional sensor may be required.



2 x sensor (transmitter/receiver) and evaluating unit (transmitter sensor and receiver sensor are identical)

Monitored surface: max. 25m² normal glass, max. 14m² composite or bullet-proof glass



Functional diagram

Accessories:

032267 Glass/metal gluing set

170084



Sensor of active glass breakage sensor

**Technical Data**Length
Colour5 m
pure white, similar to RAL 9003

Not suitable for plastic disks.

1 unit (for an extension, 2 units must be ordered)

Accessories

170087



Gluing gauge for active glass breakage sensor MAGS-E



170088



Tester for active glass breakage sensor MAGS-E



031218



Mechanical vibration detector



G193503 (EMT), Class B

The mechanical vibration contact in SMD technology with individual identification and protection of the cover is suitable for break-through monitoring of windows, doors and, if required, walls (glass components).

Per detector group, max. 10 contacts can be connected. Connection to differential detector groups (in Z wiring) only. Sensitivity adjustable.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	6 V to 15 V DC
Current consumption in no-load operation	20 µA at rated voltage
Current consumption alarm	10 mA at rated voltage
Type of protection according to DIN 40050	IP 54
Environmental class according to VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-40 °C to +80 °C
Monitoring area	approx. 4 m ² for glass approx. 2 m ² for steel/concrete approx. 1 m ² for wood/plastic
Installation position	Contact mass suspended (cable entry bottom)
Cable length	approx. 6 m
Dimensions (W x H x D)	25 x 89 x 16 mm
Colour	white

032113



Electronic vibration detector



G193501 (EMT), 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.

Performance Features

- Application range: smooth and structured surfaces with < 1mm of unevenness made of glass/metal, prerequisite: closed medium

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	6 V to 15 V DC
Current consumption in no-load operation	< 500 nA (at rated voltage, measuring time 10 s)
Current consumption alarm	< 12 mA (at rated voltage)
Humidity class according to DIN 40040	Class F
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Extinguishing time	> 1 sec.
Duty cycle	100 % duty cycle
Installation position	any
Monitoring radius	approx. 1.5 m (uniform area)
Weight	50 g
Cable length	approx. 6 m
Dimensions (W x H x D)	38 x 53 x 19 mm

Accessories:

032265 Glue RTV, silicone glue

032520

**Seismic detector GM 565****Performance Features**

- Conventional connection technology
- Mounting to steel, screwed-on or welded
- Mounting on concrete, surface/flush mounting or embedded in the floor
- Sensitivity and response time can be adapted optimally to the local situations
- Temperature protection against thermal attacks
- Remote testing system via test transmitter (option) possible

**G196012 (EMT), Class C**

The seismic detector GM 565 is suitable for monitoring safes and strong rooms for attacks using any break-in device known today, such as diamond crown bits, hydraulic press tools, oxygen lances and also attacks with explosives.

Function:

The machining of hard materials such as concrete, steel and plastic armouring produces mass accelerations. This generates mechanical vibrations, which propagate in the material as vibration. The sensor of the seismic detector rigidly connected to the object to be protected receives these vibrations and converts them into electric signals. The detector electronics analyses these signals in a selected range of frequencies typical of break-in tools and triggers an alarm via a relay contact.

Applications: Safes, safe walls, strong rooms made of elements, strong room doors, cash machines, night safes, steel lightweight constructions (LWS, plastic armouring).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	7 V to 16 V DC
Current consumption in no-load operation	3 mA (at 12 V DC)
Current consumption in case of alarm	5 mA (at 12 V DC)
Alarm output	Potential-free switchover relay
relay contact	30 V DC / 100 mA
Sabotage Contact	30 V DC / 100 mA; micro switch closed with the cover in place
Electronic alarm output	short circuit resistant > 16 V
Output level in case of alarm	0 V (LOW active)
Alarm holding time	2.5 s
Type of protection according to DIN 40050	IP 43
Environmental class according to VdS	III
Operating temperature range	-20 °C to +60 °C
Storage temperature range	-50 °C to +70 °C
Response temperature	98 °C
Radius of action	4 m (on concrete and steel)
Range of action	50 m² (on concrete and steel)
Sensitivity	adjustable in 6 steps
Response time	adjustable in 2 steps

110294

**Seismic detector VV 600 Plus****G101141 (EMT), Class C**

For use mainly in monitoring of safe walls and doors and safes. The mounting plate is not included in the delivery. Please order separately.

Technical Data

Operating voltage	9 - 15 V DC
Operating temperature	-20 °C to +55 °C
Closed-circuit current consumption	8.6 mA
Radius of action	Radius of 3 m to 14 m, depending on material
Type of protection according to DIN 40,050	IP 30
Dimensions (W x H x D)	81 x 101 x 28 mm
Colour of housing	grey, similar to RAL 7035



Per seismic detector, a test transmitter must be ordered separately.

110295

**Seismic detector VV 602 Plus****VdS Approval****G101142 (EMT), Class C**

For use mainly in monitoring of night safes and cash machines.
The mounting plate is not included in the delivery. Please order separately.

Technical Data

Operating voltage	9 - 15 V DC
Operating temperature	-20 °C to +55 °C
Closed-circuit current consumption	8.6 mA
Radius of action	3 m to 14 m, depending on material
Type of protection according to DIN 40,050	IP 30
Dimensions (W x H x D)	81 x 101 x 28 mm
Colour of housing	grey, similar to RAL 7035

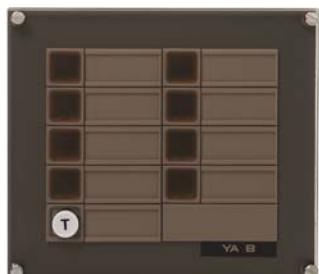
► **Accessories**

032542

**Test transmitter for GM 565****VdS Approval****G177028 (EMT), Class C**

The test transmitter allows you to set up a remote testing system whereby the correct function of a seismic detector can be checked from any location.

032540

**Alarm display unit YA 8 for GM 565****VdS Approval****G177028 (EMT), Class C**

Remote display of up to 8 detectors with event memory. It can also be used for triggering the test transmitters of the monitored detectors.

032546

**System housing for YA 8****VdS Approval****G177028 (EMT), Class C**

Alarm contacts

Seismic detector

032524



Mounting plate for GM 565



Required if the detector is mounted to concrete or welded to steel.

110296



Test transmitter (to be integrated in W 600/602 Plus)



For functional test of the seismic detectors.

110291



Display panel for VV 600 Plus and VV 602 Plus



Approval

G196038, Class C

Alarm display of up to 8 detectors.



110297



Mounting plate VM 600



For mounting the seismic detectors VV 600 Plus and VV 602 Plus to concrete and stone walls.

110298



Mounting plate VM 604



For mounting the seismic detectors VV 600 Plus and VV 602 Plus to concrete and stone walls.

 Modular hold-up detector

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 or integrated in the modular operation and display program.

Technical Data

Operating voltage range	10 V to 15 V DC
Current consumption	Buzzer 15 mA
Contact rating	max. 30 V DC/100 mA; min. 1.5 V DC/10 mA (resistive load)
Environmental class according to VdS	II
Protection type	IP 40 (built-in)
Housing colour	grey-white, similar to RAL 9002, plastic
Front colour	grey-white, similar to RAL 9002

Accessories:

- | | |
|--------|--|
| 012600 | Surface-mounted basic housing for 1 module |
| 012601 | Flush-mounted basic housing for 1 module |
| 012415 | Flush-mounted housing for 012601 |
| 012416 | Flush-mounted box for dual housing |
| 012602 | Surface-mounted basic housing, version 1 for 2 modules |
| 012603 | Flush-mounted basic housing, version 1 for 2 modules |
| 012612 | Dummy module for basic housing |
| 012654 | Paper seal, 10 per packaging unit |

012652

**Module for hold-up pushbutton without buzzer****G187057 (EMT), Class C****Technical Data**

Contact load max.	30 V DC/ 100 mA (resistive load)
Contact load min.	1.5 V DC/10 µA (resistive load)



031540

**Module for hold-up pushbutton BUS-1****G194039 (EMT), Class C****Technical Data**

Current consumption at rated voltage	max. 500 µA
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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 central unit 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
cover contact	NO 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 in case of alarm	5 mA (LED)
Environmental class according to VdS	II
Protection type	IP 30
Material	ABS plastic
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



 Approval

G196044 (EMT), Class C

031593



Hold-up detector, white, flush mounted, with LED display



 Approval

G196044 (EMT), Class C

Technical Data

Mounting	Standardised flush mounted installation box (Hollow wall box for VdS, milled hole Ø 68 mm)
Dimensions (W x H x D)	Plastic cover 82 x 82 x 3 mm; Plastic compensating plate 88 x 88 x 3 mm

031590



Hold-up detector, white, surface mounted, without LED display



 Approval

G196044 (EMT), Class C

031591



Hold-up detector, white, surface mounted, without LED display



VdS Approval

G196044 (EMT), Class C

Technical Data

Mounting

Standardised flush mounted installation box

Dimensions (W x H x D)

(Hollow wall box for VdS, milled hole Ø 68 mm)

Plastic cover 82 x 82 x 3 mm;

Plastic compensating plate 88 x 88 x 3 mm

031594



Paper seal

For hold-up detectors 031590 to 031593.

 **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
cover contact	Change-over contact 30 V DC / 100 mA
Environmental class according to VdS	II
Protection type	IP 40
Weight	approx. 70 g
Material	Plastic: ABS
Dimensions (Ø x H)	81 x 31 mm
Colour	grey-white or white/yellow

031550



Hold-up detector, grey-white, surface mounted



VdS Approval

G195065 (EMT), Class C

031551



Closing cover with cap, grey



031552



Paper seal

For hold-up detector 031550.



10 units

► Hold-up floor alarm bars

031521



Hold-up floor alarm bar, 30 cm long



VdS Approval

G186030 (EMT), Class C

Minimum noise formation, including a mechanical trigger display and protection of the cover. It is connected via a soldered terminal strip.

**Technical Data**

Switching capacity	max. 42 V DC / 100 mA
Weight	0.3 kg
Dimensions (W x H x D)	300 x 30 x 36 mm

031522



Hold-up floor alarm bar, 60 cm long



VdS Approval

G186030 (EMT), Class C

Minimum noise formation, including a mechanical trigger display and protection of the cover. It is connected via a soldered terminal strip.

**Technical Data**

Switching capacity	max. 42 V DC / 100 mA
Weight	0.55 kg
Dimensions (W x H x D)	600 x 30 x 36 mm

Article to be discontinued by 31.12.2006

► 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

Switching voltage	max. 30 V DC
Switching current	max. 25 mA (no inductive loads)
Contact	1 NO contact (normally open, wires are stripped)
Contact triggering	25 N to 105 N over 60 mm ²
Sabotage contact	for looping through the sabotage detector group
Dimensions (L x W)	720 x 390 mm



Pressure-insensitive margin (15 mm) for fixing.

031530

**Paper money contact standard design****Technical Data**

Closed-circuit current	15 mA
Alarm current	10 mA
Material	Plastic
Dimensions (W x H x D)	38 x 45 x 16 mm
Colour	pure white, similar to RAL 9010



Connecting cable, 4-pin

160215

**Paper money contact GSK 1 E****Approval****G184124 (EMT), Class C**

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
Closed-circuit current consumption	Approx. 1.2 mA
Contact rating	28 V /0.1 A
Alarm contact	potential-free reed contact (NO contact)
Dimensions (W x H x D)	55 x 19 x 115 mm
Colour of housing	light-grey, similar to RAL 7035

031561.16



Water detector for wall mounting, white



The water detector serves for the detection of water intrusions. 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 display, which allows the triggering of the detector to be identified.

Performance Features

- Completely enclosed and waterproof
- "Z wiring" allows it to be looped into 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
Closed-circuit current at rated voltage	<20 µA
Alarm current at rated voltage	4 mA
Detection in case of moisture	RF approx. 80 kOhm
Operating temperature range	0 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Connection cable	LIYY 4 x 0.14, white, 6 m
Cable	Cable suitable for the IDC method of termination
Dimensions (W x H x D)	22 x 28 x 14 mm
Colour of housing	white, similar to RAL 9010

The recommended glue is the RTV silicone glue 032265.

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 central units and telephone diallers.

057350



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
Nominal voltage	12 V DC
Relay contact rating	24 V DC / 1 A
Closed-circuit 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, the methane gas detector must be mounted at the upper wall half.

057351



Compact gas detector for propane



Pre-alarm at 0.21 % of C₃H₈ = 10 % of LEL, main alarm at 0.42 % of C₃H₈ = 20 % of LEL.

Technical Data

Operating voltage	8.5 V to 14 V DC
Nominal voltage	12 V DC
Relay contact rating	24 V DC / 1 A
Closed-circuit 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

057355.10



Compact heat detector

**Technical Data**

Operating voltage	8.5 V to 14 V DC
Nominal voltage	12 V DC
Relay contact rating	24 V DC / 1 A
Closed-circuit current	max. 30 mA
Factory setting	responds at temperatures > +40 °C
Can be set from	+20 °C to +50 °C
Ambient temperature	-25 °C to +65 °C
Storage temperature	-25 °C to +65 °C
Relative humidity	< 95 % no condensation
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
Nominal voltage	12 V DC
Relay contact rating	24 V DC / 1 A
Closed-circuit current	max. 30 mA
Factory setting	responds at temperatures < +5 °C
Can be set from	-10 °C to +15 °C
Ambient temperature	-25 °C to +65 °C
Storage temperature	-25 °C to +65 °C
Relative humidity	< 95 % no condensation
Housing	Plastic
Colour	white, similar to RAL 9002
Dimensions (W x H x D)	118 x 118 x 31 mm

057358



External measuring sensor for compact temperature detector



Consists of sensor element and 1.5 m connecting cable. For temperature detection when device and variable to be measured are spatially separated.
The sensor is suitable for compact heat detector 057355.10 and compact cold detector 057356.



Alarm devices

Acoustic alarm devices

Optic alarm devices

Optic/Acoustic alarm devices

Day alarm

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 alarm devices for external alarms

048700



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.



Acoustic alarm device

 Approval

G100068 (EMT), 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
Volume	>100 dB(A)
Environmental class according to VdS	IV
Type of protection according to DIN 40050	IP 44
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	grey-white, similar to RAL 9002



Adapted to the Esser alarm systems of the HB/MB series. The activation signal is provided by the connected hazard detection central unit.

160456.10



Acoustic compact alarm device P2500

 Approval

G101104 (EMT), 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 or 24 V DC
Voltage range	10.2 - 13.8 V DC or 20.4 to 27.6 V DC
Current consumption	Alarm tone approx. 330 mA (12 V), 200 mA (24 V); Alarm tone fire approx. 370 mA (12 V), 210 mA (24 V); Alarm tone technology approx. 200 mA (12 V), approx. 110 mA (24 V)
Frequency range	Alarm tone approx. 400 - 1200 Hz (rate of increase 1.6 sec.); Alarm tone fire approx. 1200 - 500 Hz (rate of decrease 1.0 sec.); Alarm tone technology approx. 820 Hz
Volume	(on: 0.75 sec./off: 0.75 sec.) 100 dB(A)/1 m
Sound pressure	105 dB(A)
Environmental class according to VdS	IV
Type of protection according to DIN 40050	IP 34
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



Installation equipment

Acoustic alarm devices for internal alarms

Apart from the acoustic external alarm devices, there is also a group of acoustic 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.

043065.10



Piezo indoor siren, conventional connection

 Approval G199021 (EMT), 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 3x switched over per sec.
- 4.) 500 Hz to 1200 Hz sinusoidal

Technical Data

Rated operating voltage	24 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 according to DIN 40050	IP 32 (when mounted with radius at the top)
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)	85 x 87 x 34 mm
Colour	grey-white, similar to RAL 9002

043066.10



Piezo indoor siren, conventional connection

 Approval G199021 (EMT), Class C

Same as article 043065.10, but red.

Technical Data

Colour	fire-red, similar to RAL 3000
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043060



Piezo indoor siren, BUS-1 connection

 Approval G100022 (EMT), Class C

Same as article 043065.10, 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	typ. 4 mA
Connection at no-load	typ. 60 mA
Current consumption at 12 V DC active (Volume 90dB(A))	74dB(A) and 90dB(A)
Programmable volume	IP 32
Type of protection according to DIN 40050	II
Environmental class according to VdS	-5 °C to +45 °C
Operating temperature range	85 x 87 x 34 mm
Dimensions (W x H x D)	grey-white, similar to RAL 9002
Colour	

043050

**Module for indoor siren, BUS-1****VdS Approval****G194037 (EMT), 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 15V DC
Closed-circuit current	500 µA
Active at 60 dBA	4 mA
Active at 95 dBA	80 mA
Volume	60 to 95 dB(A)
Dimensions (W x H x D)	79 x 115 x 50 mm (with housing 012600)
Colour	grey-white, similar to RAL 9002

Accessories:

- | | |
|--------|--|
| 012600 | Surface-mounted basic housing for one module |
| 012601 | Flush-mounted basic housing for one module |
| 012415 | Flush-mounted housing for Art. No. 012601 |

120015

**Electronic indoor siren****VdS Approval****G197065 (EMT), Class C****Technical Data**

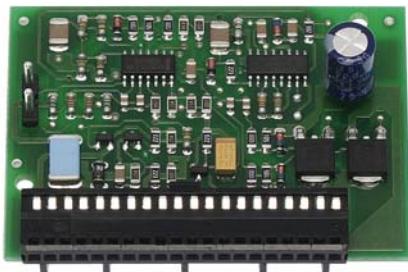
Operating voltage	9 V DC to 14.2 V DC
Frequency	2500 -3000 Hz
Sound level	104 dB(A)
Current consumption	130 mA / 12 V DC
Protection type	IP 31
Dimensions (W x H x D)	155 x 114 x 44 mm
Material	Plastic
Colour	white

043130

**Electronic buzzer****Technical Data**

Current consumption at 12 V DC	15 mA
Material	Plastic
Dimensions (W x H x D)	38 x 25 x 45 mm
Colour	white

012690.03

**Siren plug-in card for 2 pressure chamber loudspeakers**

Plug-in card for operating a maximum of 2 acoustic alarm devices (pressure chamber loudspeaker).

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 rated voltage	<400 mA
Flashing frequency	approx. 2 Hz
Environmental class according to VdS	IV
Type of protection according to DIN 40050	IP 65
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



Optic alarm device, red



VdS Approval

G100033 (EMT), 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	grey-white, similar to RAL 9002
Flash lamp coloured cap	red

042105



Optic alarm device, yellow



VdS Approval

G100033 (EMT), 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	grey-white, similar to RAL 9002
Flash lamp coloured cap	yellow

042120

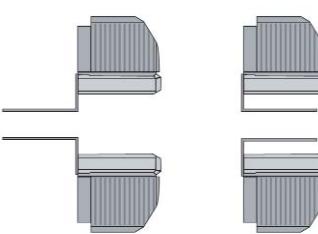


Supporting bracket for alarm device 042100 and 042105



Allows suspended or upright mounting of the alarm devices 042100 and 042105.

Mounting options



160465



Alarm flashing lamp BLZ-RV, red

**VdS Approval****G189084 (EMT), Class C**

Sabotage monitoring via cover contact.

Technical Data

Operating voltage	12 V DC
Operating current	450 mA
Flashing frequency	approx. 1.5 Hz
Flashing energy	5 Joules
Duty cycle	100%
Type of mounting	position independent
Panic button	red
Ambient temperature	-20 °C to +70 °C
Type of protection	IP 65
Housing	Macrolone/Polycarbonate
Colour	grey-white, similar to RAL 9002
Weight	360 g
Dimensions (W x H x D)	120 x 160 x 120 mm

Monitoring resistance 100 kOhm integrated.

160467



Alarm flashing lamp BLZ-OV, amber



Sabotage monitoring via cover contact.

Technical Data

Panic button	amber
Colour	grey-white, similar to RAL 9002

Monitoring resistance 100 kOhm integrated.

160464



Alarm flashing lamp BLZ-RN, red



For indoor and outdoor mounting (without sabotage contact).

Technical Data

Panic button	red
Colour	grey-white, similar to RAL 9002

Monitoring resistance 100 kOhm integrated

160466



Alarm flashing lamp BLZ-ON, amber



For indoor and outdoor mounting (without sabotage contact).

Technical Data

Panic button	amber-coloured
Colour	grey-white, similar to RAL 9002

Monitoring resistance 100 kOhm integrated

160498



Mounting bracket



For vertical wall mounting of the alarm flashing lamps 160461, 160464, 160465, 160466, 160467 and 160468.

Technical Data

Material	Aluminium
Colour	grey-white, similar to RAL 9002



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.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Type of protection according to DIN 40050	IP 32 (when mounted with radius at the top)
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)	85 x 87 x 34 mm
Colour	Housing white, similar to RAL 9002; luminous field red

042230



Indoor blinking light, conventional connection



VdS Approval

G199091 (EMT), 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 in no-load operation	0 mA
Current consumption in case of alarm	10 mA

042235



Indoor blinking light, BUS-1 connection



VdS Approval

G199092 (EMT), 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 in no-load operation	typ. 8.5 mA
Current consumption in case of alarm	typ. 19 mA

048720



Compact alarms in a plastic housing

**VdS Approval****G100067 (EMT), Class C**

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, switch-on 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 at rated voltage	Flashing lamp < 400 mA, pressure chamber loudspeaker typ. 250 mA
Flashing frequency	approx. 2 Hz
Volume	>100 dB(A)
Environmental class according to VdS	IV
Type of protection according to DIN 40050	IP 44
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	grey-white, similar to RAL 9002, luminous field red
Panic button	red



For use in intrusion detection central units of the HB/MB series.

160455.10



Optic/Acoustic compact alarm device P2500

**VdS Approval****G195078 (EMT), 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 or 24 V DC
Voltage range	10.2 - 13.8 V DC or 20.4 to 27.6 V DC
Alarm tone	Alarm tone approx. 330 mA (12 V), 200 mA (24 V); Alarm tone fire approx. 370 mA (12 V), 210 mA (24 V); Alarm tone technology approx. 200 mA (12 V), approx. 110 mA (24 V); Alarm tone approx. 400 -1200 Hz (rate of increase 1.6 sec.); Alarm tone fire approx. 1200 - 500 Hz (rate of decrease 1.0 sec.); Alarm tone technology approx. 820 Hz (on: 0.75 sec./off: 0.75 sec.)
Techn.	approx. 200 mA (12 V), 135 mA (24 V); approx. 1 Hz (12 V); approx. 1.2 Hz (24 V) 100 dB(A)/1 m
Flashing light	105 dB(A)
Flashing frequency	IV
Volume	IP 34
Sound pressure	Plastic
Environmental class according to VdS	1.2 kg
Type of protection according to DIN 40050	200 x 110 x 65 mm
Material	grey-white, similar to RAL 9002
Weight	
Dimensions (W x H x D)	
Colour	



Monitoring resistance 4.7 kOhm and 10 kOhm integrated.



Installation equipment

120016



Electronic indoor siren with integrated flashing light

**VdS Approval****G197066 (EMT), Class C****Technical Data**

Operating voltage	9 V DC to 14.2 V DC
Current consumption	Siren 130 mA; flashing light 110 mA
Flashing frequency	1 Hz
Frequency	2500 -3000 Hz
Sound level	104 dB(A)
Type of protection according to DIN 40,050	IP 31
Dimensions (W x H x D)	155 x 114 x 44 mm
Housing	Plastic
Colour	white

The day alarm detector is used for monitoring the opening of two emergency exit doors. The device can simply be mounted on-site. Owing to the integrated power supply unit, the required supply voltage is only 230 V AC/50 Hz. Door contacts serve as criterion for triggering alarm. The parallel panel serves as remote individual display of several day alarm systems (1 to 8).

041410

**Day alarm****Performance Features**

- Key-operated switch On / Off
- Operating status display by means of a green LED
- Individual display for alarm triggering (2 red LEDs)
- 2 door contact connections (no-load current loop)
- Integrated acoustic alarm signalling device (buzzer)
- Semiconductor outputs for "Alarm" and "Operating status Off"
- Potential-free relay changeover contacts for "Alarm"

Monitoring of two emergency exit doors.

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC / +10 % to -15 %
Current consumption in no-load operation	approx. 10 mA
Current consumption alarm	approx. 20 mA
Mains frequency	50 Hz
Type of protection according to DIN 40050	IP 30
Environmental class according to VdS	II
Operating temperature range	-5 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	200 x 146 x 55 mm

041412

**Parallel panel**

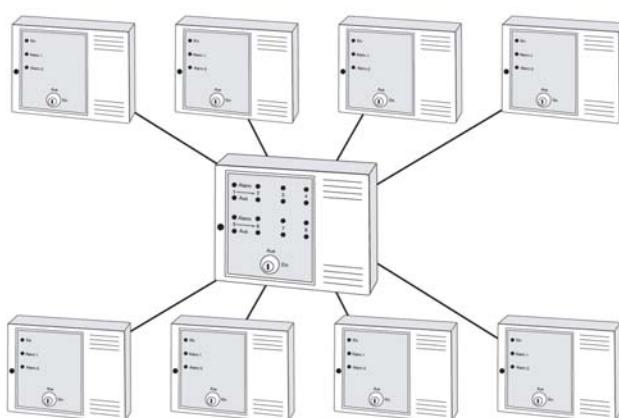
To display up to eight day alarm systems.

Technical Data

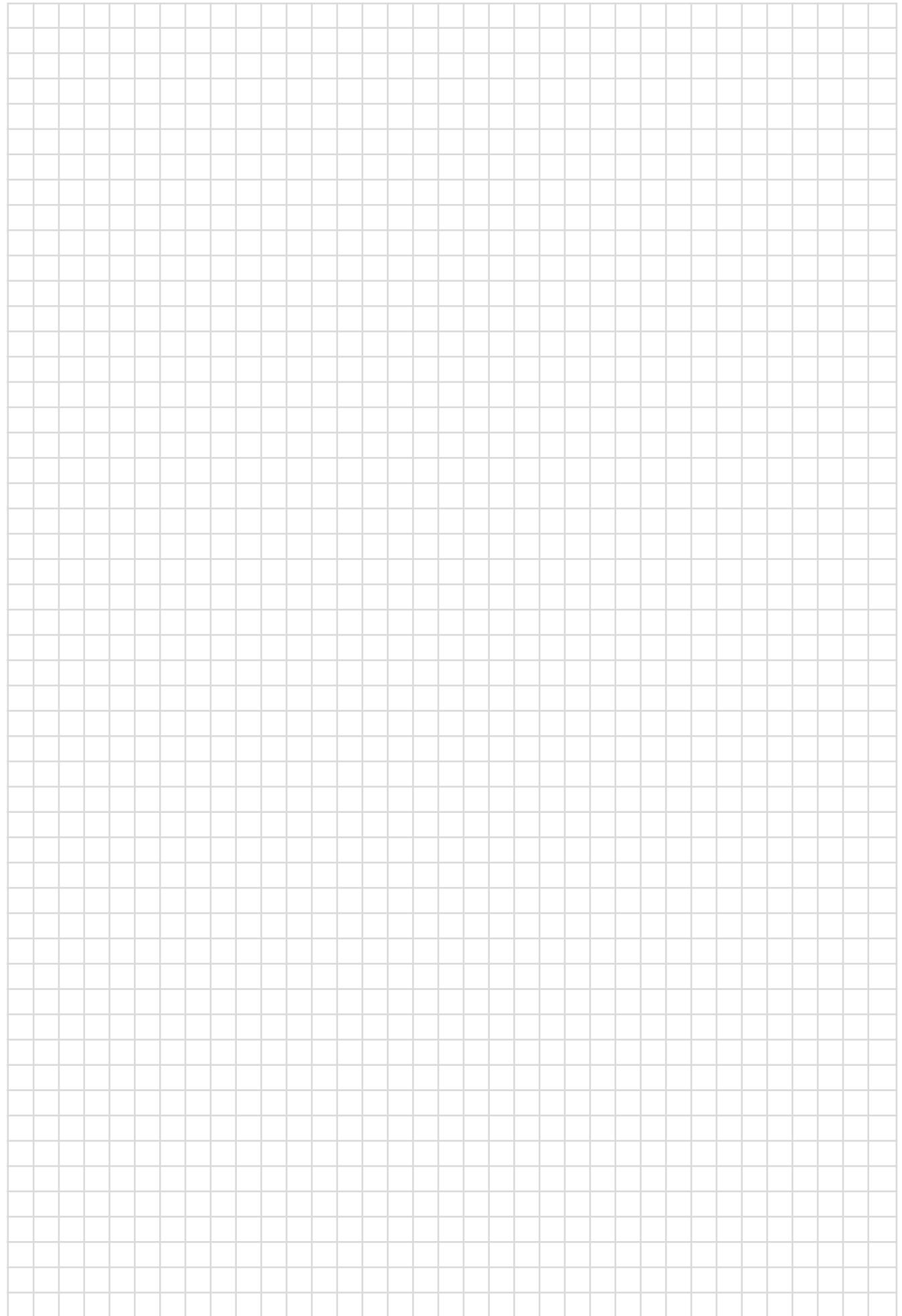
Rated operating voltage	12 V DC (from day alarm or external)
Operating voltage range	10 V to 15 V DC
Current consumption	per LED approx. 10 mA; buzzer approx. 20 mA
Type of protection according to DIN 40050	IP 30
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	200 x 146 x 55 mm

Performance Features

- Individual display of the operating status of up to 8 day alarm systems
- LED yellow: Detector OFF
- LED red: Detector Alarm
- Integrated acoustic collective alarm signalling device (buzzer)
- Key-operated switch for buzzer On / Off

**Planning examples**

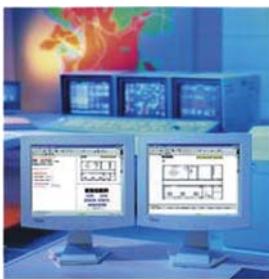




A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Management Systems
Network technology
Software



Performance Features

- Compatible with Windows 2000 or Windows XP Professional
- 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
- 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.
- Time programmes/calendar function
- Standard feature via integrated database
- Other programs can be activated while in WINMAG
- Powerful programming language SIAS for customer-specific adaptation of the interface and sequences in case of alarm
- Via modem also remote control possible (option)

New from V10:

- Redundancy

Windows Management System for Hazard Alarm Systems

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

WINMAG manages and visualises the fields of intrusion detection technology, fire detection technology, access control technology, video technology, escape 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 options in terms of application technology are wide-ranging. They range from clearly organised messages to the active control of all signalling components. Based on our IGIS-Loop and essernet® security networks, WINMAG is a professional and comfortable visual information and management solution.

The program:

Through its modular design, WINMAG provides software suitable for every system size and every field of application. The product range goes from the WINMAG standard package for single-station systems to the upgrade software from GEMAG to WINMAG. 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 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 enable do not require a copy-protection plug.

The licence is for one release version (up to version 7). When changing to a new WINMAG main version (changing the first number, for example, from V4.x to V5.x), the licence must be updated to the current version. For the updates of versions prior to V6.0 to versions from V6.0, a copy-protection plug will be produced automatically. When the copy-protection plug is removed with the program running, WINMAG will run at most for another 72 hours in the online mode.

Hardware and software requirements:

Pentium 1000 MHz or higher, min. 256 MB RAM, min. 1 GB free hard disk memory, XGA graphic card of min. 4 MB video memory, monitor of min. 1024x768 pixels, sound card with external loudspeakers, Windows 2000 or Windows XP Professional, Internet Explorer from version 4.0.

013600



CD control centre software WINMAG standard package



CD containing the WINMAG control centre software for hazard detection systems, excluding licence, compatible with WINDOWS 2000 or Windows XP Professional. 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.

From WINMAG version 8, this software can also be used as upgrade (only for existing WINMAG installations higher than or equal to version 6).



The WINMAG standard package will work without licence for demonstration purposes for 20 eight-hour days as full version with central connection and will then switch back to the demo 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.

► Upgrade packages

013620

||||| Upgrade of a GEMAG installation



Upgrade of a GEMAG installation to WINMAG control centre software

An existing GEMAG installation (MS-DOS) can be upgraded to WINMAG. As proof of upgrade, the GEMAG copy-protection plug must be returned.

This upgrade includes a dongle plus the licences for fire detection and intrusion detection technologies and four clients. For extensive systems, an individual offer must be requested. The upgrade does not contain conversion tools for data transfer. Conversion tools are only available separately.

013622

||||| Upgrade of a WINMAG installation smaller than version 6



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

An existing WINMAG installation smaller than version 6 can be upgraded to the latest WINMAG control centre software. For each installation including a dongle (each PC that must be enabled), a separate upgrade must be ordered.

Please specify the licence number of the standard licence when ordering.

► Standard licences

013630

||||| WINMAG control center software standard licence



WINMAG control centre software standard licence including copy-protection plug for the parallel 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 centres to server workstations, further licences are required (see 013601 - 013606, 013608, 013611 - 013613, 013625).

Copy-protection plug for the parallel port

013631

||||| WINMAG control centre software standard licence



WINMAG 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 centres to server workstations, further licences are required (see 013601 - 013606, 013608, 013611 - 013613, 013625).

Copy-protection plugs for USB port

 Extension licences

013609



WINMAG 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 central units to a PC. These licences can be ordered separately (later on) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013601



Intrusion detection technology licence



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



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, 5008.

013602



Fire detection technology licence



Option for the WINMAG standard software It is required when fire detection technology units are to be connected to WINMAG.



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 and 8000.

013603



Access control for WINMAG licence



Option for the WINMAG standard software It is required when access control technology units (e.g. ACS 2 and ACS 8) are to be connected to WINMAG. This requires the MultiAccess 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.

013604



Video technology licence



Option for the WINMAG standard software It is required when WINMAG video technology units are to be operated. The crossbars are capable of executing commands such as pivoting, zoom, tilting, monitor selection, etc., depending on the model. The following video crossbars have previously been supported: Ernitec M 500 and M 1000; Honeywell MaxPRO 32; Philips LTC 8x00; Geutebrück Vicrsoft; Geutebrück Multiscope; 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.

013605

**Escape route technology/escape door control licence**

Option for the WINMAG standard software It is required when escape route technology/escape door control WINMAG units (e.g. Honeywell) 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

**DEZ 9000 interface licence**

Option for connecting the remote operating central unit DEZ 9000 to the WINMAG system. The connection also allows applications to be enabled that work with the VdS-2465 transmission protocol on the WINMAG system.

013608

**WINMAG remote data transmission licence**

Option for the WINMAG standard licence Allows WINMAG to be operated via modem lines using DS 7500 and DGA 2400 on ESSER EMT and BMT.

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.

► Connection Server

013606

**Connection Server licence**

Option for the WINMAG standard software The ConnectionServer is a software module that allows an external discipline to be connected to WINMAG. The ConnectionServer offers a comfortable interface that allows data and controls to be exchanged bidirectionally in the detection point format with WINMAG.

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

**Connection Server development package**

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

► OPC and BACnet

013590

**Universal Gateway for PC**

Software gateway 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. 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 OPC/BACnet 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

 OPC Server licence

Option for the WINMAG standard software It is required if WINMAG 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

 OPC Client licence

Option for the WINMAG standard licence It is required when WINMAG 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

 BACnet Server licence

NEW



Option for the WINMAG standard licence It is required when WINMAG data are to be transmitted via BACnet.

 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.

► Options

013613

 Notification licence

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

 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 functions requires an ISDN connection (S0) and an ISDN card.

013650

 Escalation licence

Option for the WINMAG standard licence It is required when SMS sent from WINMAG 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

 DTMF control option licence

Option for the WINMAG 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 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

 Client processing ability licence

Option for the WINMAG 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.

013660

 WEBX licence

Option for the WINMAG standard licence Allows a display of all system statuses via the Internet or Intranet using standard browsers (max. 5 browsers).
The dial-up connection to the Internet is done via the safety portal "esafetynet".

 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

 Redundancy licence

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

013625

 WINMAG Client licence

Option for the WINMAG 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 software is required. For each client, one WINMAG Client licence each 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.

013640

 WINMAG control centre remote maintenance package

This remote maintenance package allows you to perform remote maintenance and support on WINMAG applications via modem.

 A mode is not included in the package and must be provided in accordance with the available transmission technology.



Service

784830



Entering a detection point



Object-related according to written customer specification

784832



Entering a text page



Object-related according to written customer specification

784833



Entering a graphics page



Object-related according to written customer specification

784839

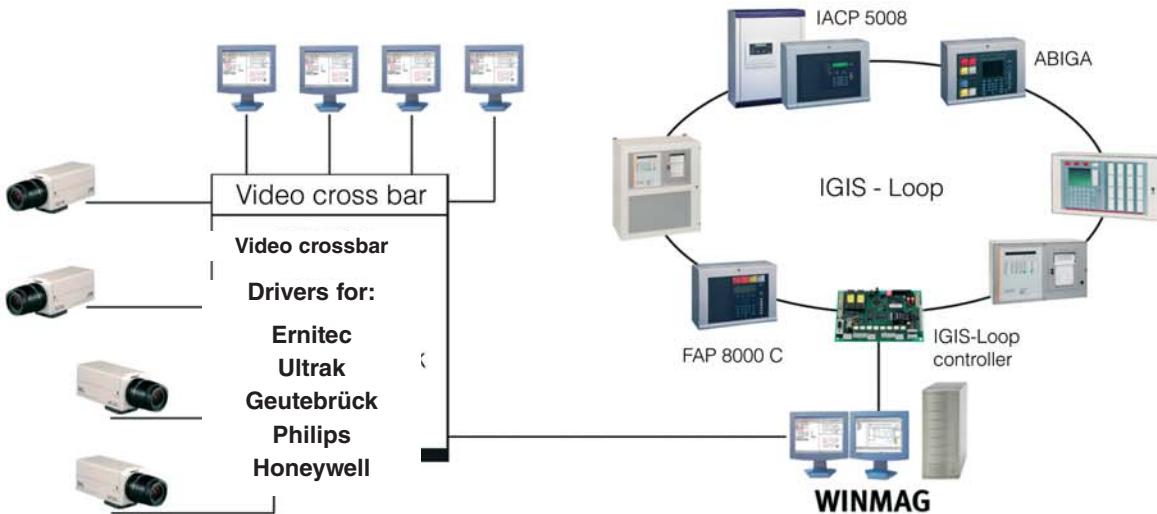
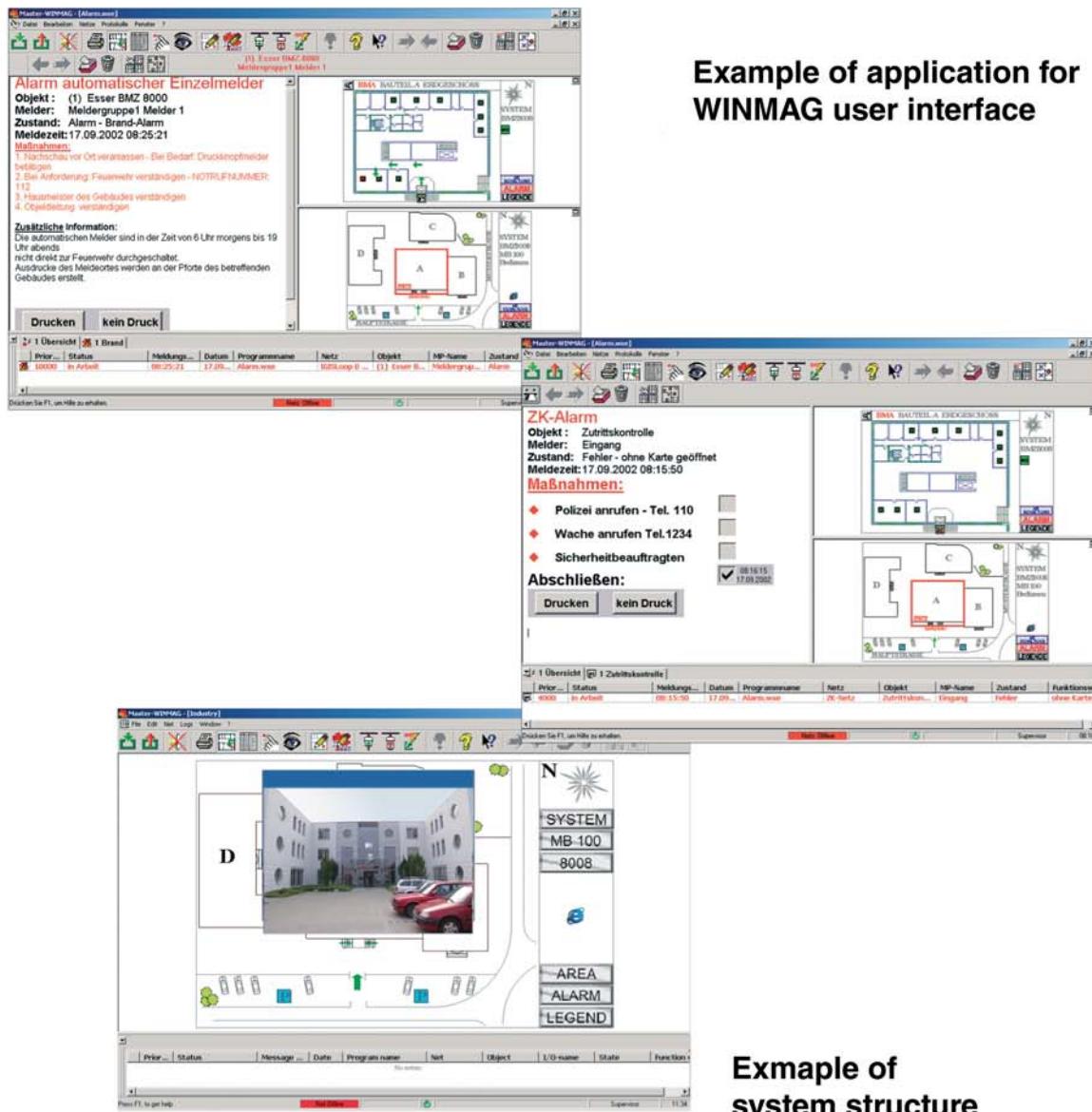


Conversion of a graphics page



Conversion of different graphics formats to a common WINMAG format.

► Application examples for the WINMAG user interface



013635



WINMAG Lite including USB copy-protection plug

**Performance Features**

- Low-cost management software for hazard detection systems
- Visualisation and control of only one hazard detection central unit (BMA, EMA, RWT, ZK)
- Visualisation and control of video management systems VisiOprime or Fusion
- Management of up to 500 detection points per object
- 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

WINMAG Lite is the low-cost entry into the management of hazard detection systems. It is easy to use, and its predefined, practice-related control unit and detection point types facilitate 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 central units are planned. Thus, the Lite version offers a wide range of applications even to WINMAG professionals.

The combination of a hazard detection system with the Honeywell video management systems Honeywell Fusion and VisiOprime allows especially small objects to be secured in a professional manner. WINMAG Lite provides the user with almost all WINMAG standard functions. In contrast to the full version, first only one hazard detection central unit can be connected.

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.

Hardware and software requirements:
Pentium 1000 MHz or higher, min. 256 MB RAM (128 MB recommended), min. 200 MB free hard disk memory, XGA graphic card of min. 4 MB video memory, monitor of min. 1024x768 pixels, sound card with external loudspeakers, Windows 2000 or Windows XP (Home or Professional), Internet Explorer from version 4.0.

CD control centre software WINMAG standard package (013600)

013636



WINMAG Lite upgrade to WINMAG full version



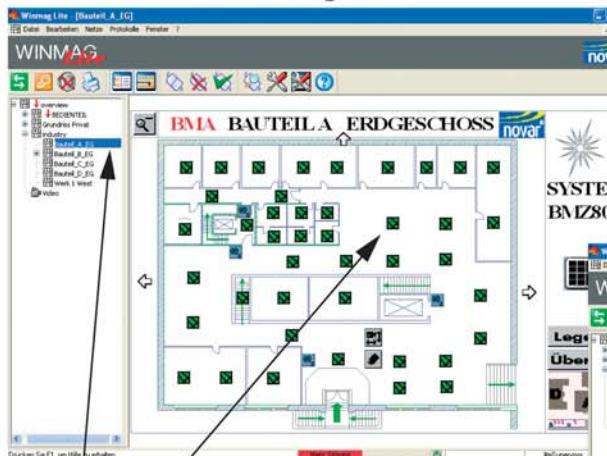
Once the system limits of WINMAG Lite have been reached, an upgrade to the full version is possible without problems, since both systems access a common database.

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

Application example of the WINMAG Lite system interface

Example of application for WINMAG Lite system interface

WINMAG Lite graphics view without message

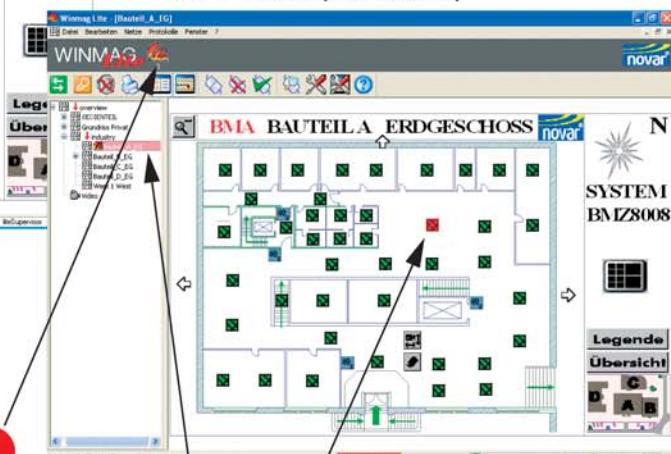


1 Marked area appears blue

Icon for fire alarm appears in the header

2 Smoke detector is indicated green

WINMAG Lite graphic view in alarm state (fire alarm)



2 Marked area appears red

3 Smoke detector is indicated red

4

An alarm messages appears by clicking ③ the fire detector:

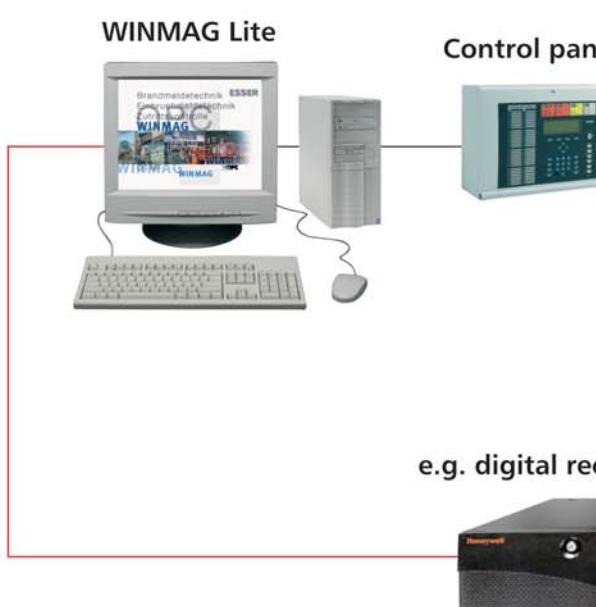


③

Text module 1
Text module 2

The messages contains two individually adaptable text modules and telephone numbers.

Example of WINMAG Lite System structure



e.g. digital recorder fusion



Performance Features

- VdS approval
- Integrated hazard detection and information system
- Security network of the new generation
- Loop-type network structure for maximum fail-safe
- Extension option for communication via Ethernet (TCP/IP) is available (adapter card)

Decentralised system structures allow an optimum adaptation to different object situations. 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 Esser 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 object-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.

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.

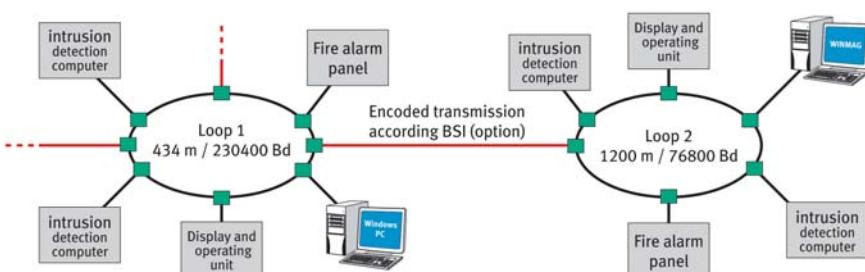
For secure transmission, encryption according to BSI (Federal Agency for Security) (BSI 7522 and BSI 7500) according to 3.4 and 3.12 is available for the routing path between routed loops. (encryption not for system 5008)

Technical Data

Data transmission speed	19,200-307,200 baud (can be set)
Interface	RS 422 (IGIS-LOOP) RS-232 (WINMAG-PC) K-BUS (BMC 1024-F) I-BUS (IDS central unit 561-MB16/MB100)
Nominal voltage	12 V DC
Operating voltage	10.5 V to 15 V DC
Current consumption	200 mA
Ambient temperature	-5 °C to +45 °C
Storage temperature	-25 °C to +70 °C
Environmental class according to VdS	II
Housing ZG 0 dimensions (W x H x D)	230 x 155 x 90 mm
Housing ZG 2 dimensions (W x H x D)	350 x 300 x 152 mm

 List of central units and software versions that can be used:

System 8000	from version 2.41 R 003
BMC 1024-F	V 5.00
IDS central unit 561-MB16	V 8.02
IDS central unit 561-MB100	V 8.02
System 5008	V 1.34
ABIGA	V 1.03
IGIS-LOOP Controller	V 3.0



Application example

► Network technology

013330.10

**IGIS-LOOP-Controller**

For EMT/BMT/ZK/PC.

Interface controller of universal use for integrating intrusion detection and fire detection central unit 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)**

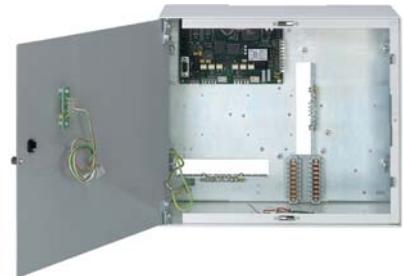
In housing ZG0. Housing with swivel door. Closure via seal.

No room for emergency power supply

Accessories:

013069 V.24 connection adapter set

013332.10

**IGIS-LOOP-Controller (in housing ZG2)**

In housing ZG 2. Housing with swivel door. Closure via seal.

Room for emergency power supply for Art. No. 010686.01, or 010690.02 (EN54) and 1 accumulator 018007.

Accessories:

013069 V.24 connection adapter set

► Accessories

013336

**Ethernet connection module****Ethernet connection module for IGIS-LOOP Controller 013330**

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 central units can also be connected to an IGIS-LOOP directly via the Ethernet by means of the Ethernet connection module and the IGIS-LOOP Controller.

Technical Data

Current consumption

70 mA

013335

**LED panel activation module****LED panel activation module for IGIS-LOOP Controller 013330.10**

The LED activation module is equipped with 4 connection plugs. Max. 4 LED driver pcbs (070750.03 or 070750.04) can be connected to each of these plugs. This means that a total of 2048 LEDs can be activated. The module also has 4 inputs, which can be used as triggering criteria during macro programming.

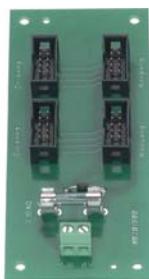
When activating more than 512 LEDs (LED panel activation module slots ST3 and ST4), the use of the connection adapter 013335.01 is absolutely necessary.

Technical Data

Current consumption LED activation	15 mA approx. 5 mA
---------------------------------------	-----------------------

The housing components 070754 and 070758 and the 32-group display pcb 070750.03 can be used to integrate a 256-detector display in the central unit of the ZG 4.

013335.01

**Connection adapter of the external power supply****Connection adapter of the external power supply for the IGIS-LOOP LED panel**

Connection adapter for another 512 LEDs each. The connection adapter is connected to a suitable power supply.

Maximum extension:

512 LEDs on the activation module (013335) +
512 LEDs on the connection adapter (013335.10) +
512 LEDs on the connection adapter (013335.10) +
512 LEDs on the connection adapter (013335.10)
= 2048 LEDs maximum extension

070750.09

**10-pin connecting cable****Technical Data**

Spacing	1.25 mm
Length	100 mm



070750.13

**10-pin connecting cable****Technical Data**

Spacing	1.25 mm
Length	2.5 m



789305

Kit for fire detection central unit 8000C, IQ8Control or IDS central unit 5008C



For integrating the fire detection central unit 8000C, IQ8Control + IDS central unit 5008C in the IGIS-LOOP security network.

Kit containing the IGIS-LOOP adapter micro module, connecting cable and IGIS-LOOP Controller, mounted in the extension housing for connection to fire detection central unit 8000C, IQ8Control or intrusion detection central unit 5008C.

Technical Data

Operating voltage	10.5 V to 15 V DC
Nominal voltage	12 V DC
Closed-circuit current consumption	Micro module adapter 85 mA IGIS-LOOP Controller 200 mA
Emergency power supply	up to 2x 12 V DC / 24 Ah
Type of protection	IP 30
Weight	approx. 5 kg
Dimensions (W x H x D)	450 x 320 x 185 mm
Colour	grey, similar to RAL 9002
Housing	ABS, reinforced with 10% of glass fibre, V -0

The number of possible central units, system 8000, IQ8Control and IDS central unit 5008 / 5008 C depends on the mains load to be calculated. For calculating the mains load, please contact our TSC.

- One 789300 extension housing for accumulators
One 784847 IGIS-LOOP micro module adapter
One 750725 IBB connecting cable for backbone
One 013330 IGIS-LOOP Controller
One 742417 pcb support sheet

013337

Secure transmission according to BSI (Federal Agency for Security)



System extension software for secure data transmission according to BSI.

The encrypted transmission only takes place between 2 IGIS-LOOPS on the routing path. A secure transmission according to BSI is not possible in combination with the IDS central unit 5008/5008C. (encryption not for system 5008)

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. However, remote maintenance, remote parameterisation and remote control can also be carried out via WINFEM or WINFEM Advanced.

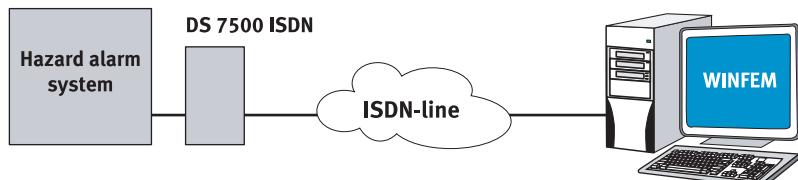
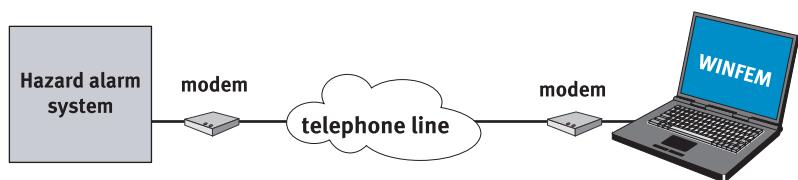
System configuration for direct central unit programming on-site: Hazard detection system including communication interface, for example USB, frame BUS or BUS-2; PC adapter cable; PC/laptop containing the corresponding WINFEM software.

System configuration for remote maintenance, remote parameterisation and remote diagnosis:

Hazard detection system including communication interface, for example frame BUS or BUS-2; ISDN dialler or DGA 2400 on the frame BUS or BUS-2; 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.

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



WINFEM system configuration

Accessories:

- | | |
|--------|--|
| 013466 | PC adapter cable V.24 / BUS-2 including 3-pin plug connector |
| 026809 | Zero modem cable |
| 013467 | USB adapter box |
| 058200 | High-speed modem V.90 external |

013498

WINFEM Advanced parameterisation software



Programming software for intrusion detection central units HB24, MB24, HB48.10, MB48, MB100.10, MB 256 plus and MB 256 (from firmware V03) and for the IK3 conventional evaluating unit and the ISDN diallers DS 7600 and DS 7700.

Performance Features

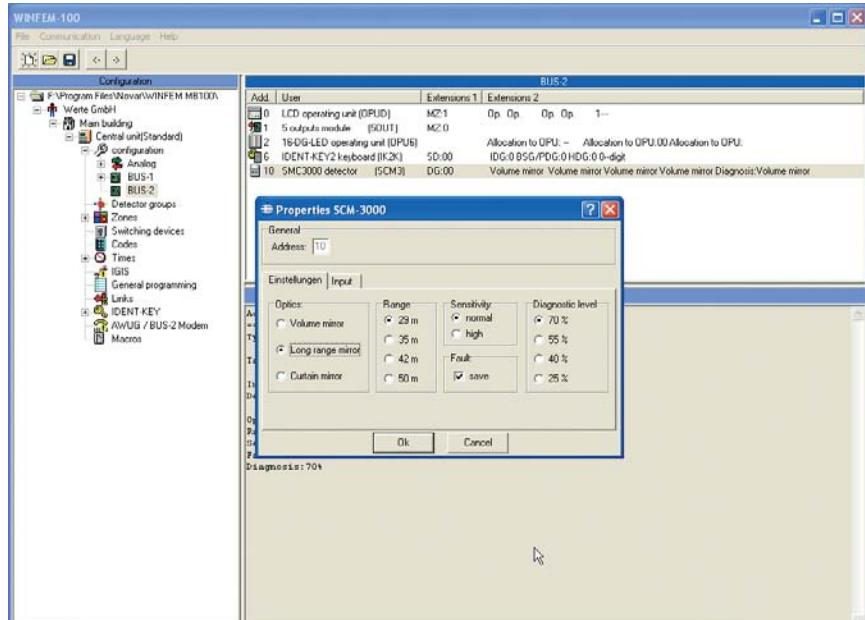
- Windows 2000, Windows XP
- Database for customers, objects and systems
- Operating unit emulation in different functionalities, depending on the type of connection

013497

WINFEM-100



Windows software for programming the central unit series 561-HB48, 561-MB8/16/100 to the central unit versions E015.xx.0V08.



Example from WINFEM-100

013496

WINFEM-256

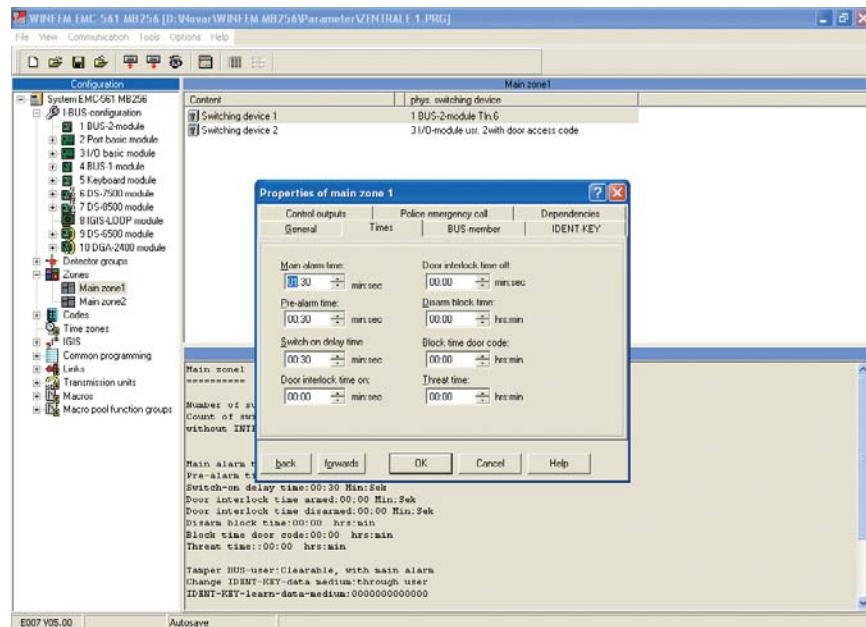
**Performance Features**

- Runs under Windows 98/Me/NT/XP
- Central unit programmings possible from software version V3.0
- Automatic background programming backup and system for making backup copies possible
- Extensive programming plausibility check
- Permanently visible information window for displaying all relevant component parameters
- Connection to the central unit via BUS-2, modem, ISDN, frame BUS or IGIS possible (depending on the Windows version used)
- Operating unit emulation for direct control or programming of the central unit
- Print functions for programming including selection options
- Event memory display and print via selectable filters

WINFEM-256 is an efficient tool for central unit programming for the central units 561-MB256.

As in the case of WINFEM-100, the options of the graphic user interface are also utilised for WINFEM-256.

WINFEM-256 is not suitable for programming the central unit MB256 plus, for which WINFEM Advanced is used.



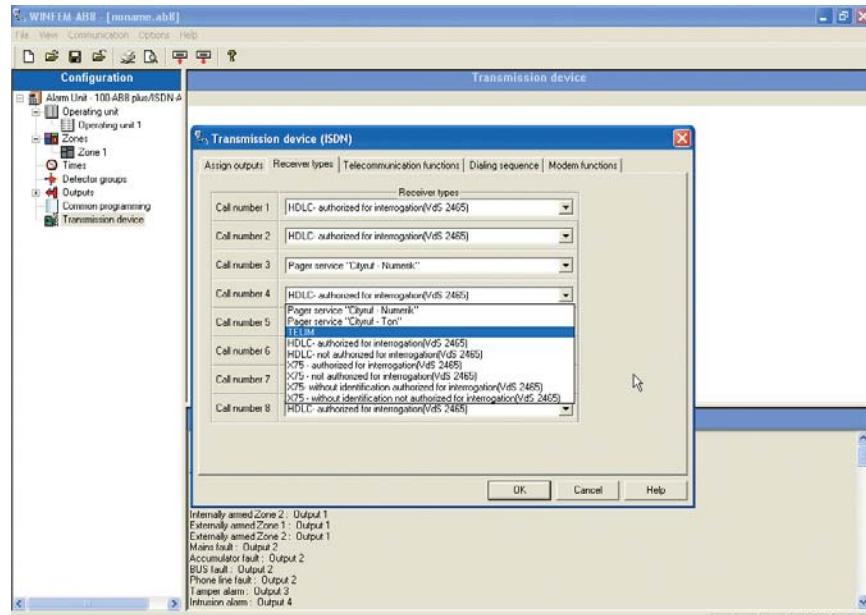
Example from WINFEM-256

013552

WINFEM-AB



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



Example from WINFEM-AB

013595

 WINFEM User

WINFEM User is an efficient help for programming the intrusion detection central units 561-HB24, 561-HB48, 561-MB24 and 561-MB100 on the operator level. The software uses the graphic options for display and operation.

059000

 EPROM update, German for IDS central unit 561-MB8

059001

 EPROM update, German for IDS central unit 561-MB16

059002

 EPROM update, German for IDS central unit 561-MB100

059003

 EPROM update, German for IDS central unit 561-MB256

059004

 EPROM update, German for IDS central unit 561-HB48

059200

||||||| Software update, German for DEZ 9000



059201

||||||| Software update, German for DEZ ISDN receiver module



059202

||||||| Software update, German for DEZ TELIM receiver module



059203

||||||| Software update, German for Datex-P receiver module



059205

||||||| EPROM update, German for DS 7500



 **Tedis**

381137

**Telediagnostics software Tedis 5008**

The software tool Tedis 5008 allows, in connection with public, in-house telephone networks or via a direct serial data connection, complete diagnostics of the intrusion detection panels 5008 and 5008C.

Thus, service or maintenance work can be optimally prepared with respect to material and personnel disposition.

The control of the central unit can be effected very simply by on-screen display of the display and control panel.

The ISDN-supported data transmission takes place in connection with the transmission unit DS 7500.

Connection of Tedis 5008 to the intruder alarm panel 5008: Directly at the central unit via serial V.24; central unit: analog modem, PC: analog modem; central unit: DS 7500 ISDN, PC: ISDN-FRITZ!Card.

System requirements:

Service PC: PC or notebook, IBM-compatible, Pentium 75 MHz or higher; min. 32 MB RAM; approx. 20 MB of available memory capacity on the hard disk; 3.5 inch floppy disk drive; VGA graphics; free serial interface; operating system from Windows 95; when connected to ISDN, an ISDN Controller will be required (recommended AVM FRITZ! Card)

Intruder alarm panel:

IDS central unit firmware from version V1.21; Customer data editor tools 5008 from version V1.31

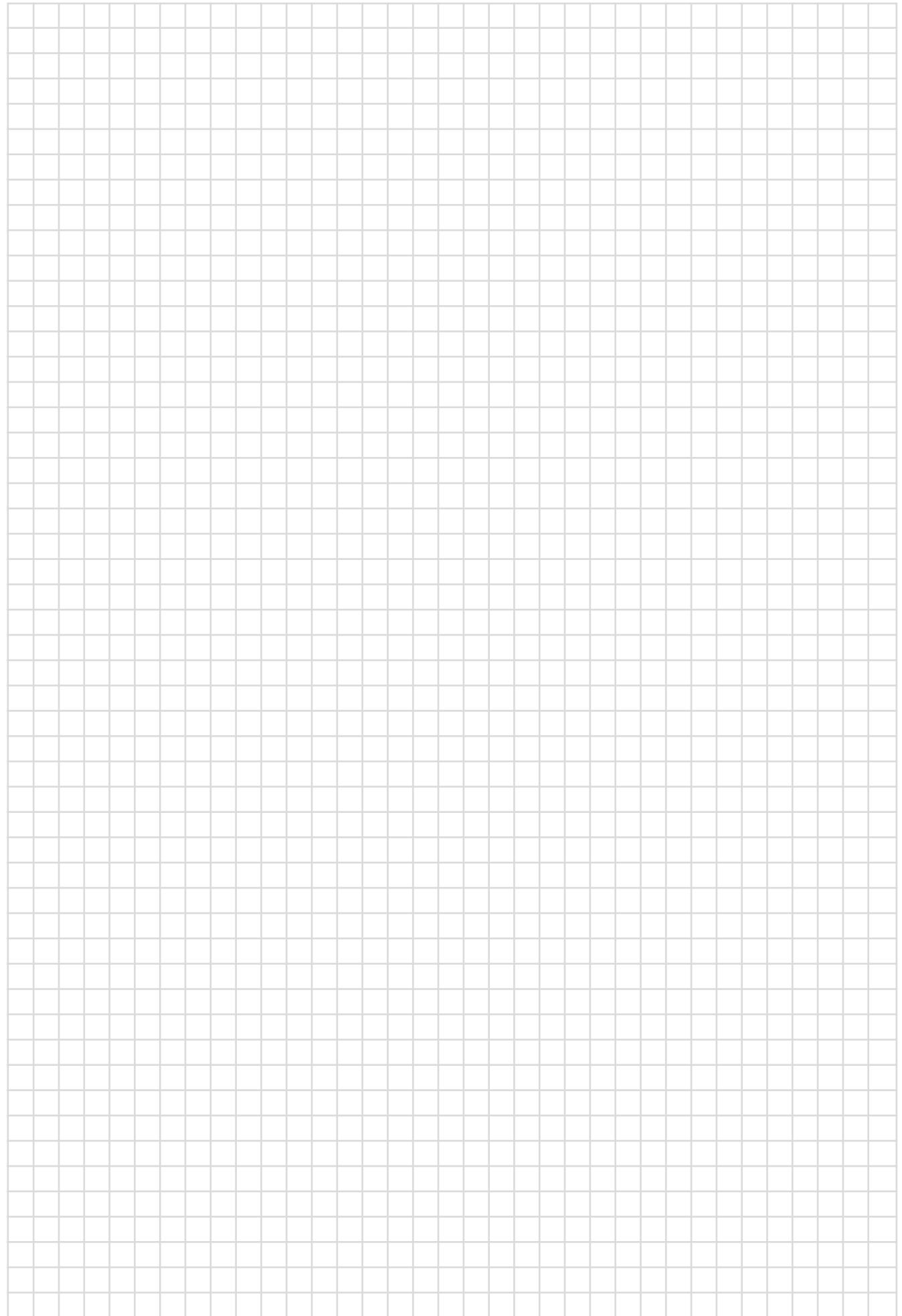
(Art. No. 770597); when connected to ISDN, connecting cable 057639; when connected to analog, PC modem type ELSA Microlink

Dialler DS 7500-ISDN: Software version V 07.0G



Software on 3.5 inch floppy disk; installation instructions





A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Installation material

Distributors

Cable and cable accessories

Relay

Housing

Flush-mounted box distributor

Fits standardised switch boxes Ø 58 or hollow-wall boxes Ø 68 mm, tamper-proof plastic cover with screw-on cap and film seal.

Technical Data

Environmental class	II (according to VdS 2110)
Type of protection according to DIN 40050 possible fixing hole spacings	IP 40 60 and 67 mm
Dimensions (W x H x D)	Cover 84.5 x 2 mm
Colour	pure white, similar to RAL 9010

050162



Flush-mounted box distributor, soldering technology



Approval

G100058 (EMT), Class C

Technical Data

Connection technology	Solder/solder, 22+2-pin
Height	approx. 19 mm

050163



Flush-mounted box distributor, IDC method of termination



Approval

G100060 (EMT), Class C

Technical Data

Connection technology	IDC method of termination, 22+2-pin
Assignment	2 wires per contact, max.
Line diameter	0.40 - 0.63 mm
External diameter	0.70 - 1.10 mm
Height	approx. 22 mm

 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



Approval

G100059 (EMT), Class C

Technical Data

Connection technology	Spring terminal technology, 28+2-pin
Assignment	2 wires per contact, max.
Line diameter	0.32... 0.80 mm with 1 wire; 0.40 - 0.63 mm with 2 wires
External diameter	0.70 - 1.10 mm
Height	approx. 22 mm

 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
Colour	pure white, similar to RAL 9010

 Fits flush-mounted distributors: 050162, 050163 and 050164

 5 units

**Modular plastic distributors**1
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120240

**Plastic distributor VVD 230 (surface mounted)****VdS Approval****Class C**

Small distributor housing for housing a pcb of dimensions 65 x 72 mm and the 10-pin distributor terminal 382030, for example for some EMT / BMT esserbus® transponders or the 8-fuse card 382040, surface mounted design.

Technical Data

Type of protection

IP 40

Housing

ABS

Colour

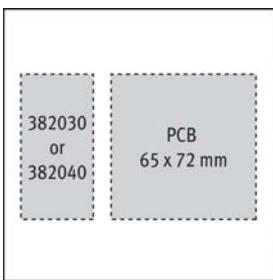
white, similar to RAL 9016

Dimensions (W x H x D)

125 x 125 x 35 mm



The VdS approval applies in connection with the esserbus® users 384620, 384622, 384624 and 384628 and the distributor pcbs 382031 and 382040.



120244

**Plastic distributor VVD 230 (flush mounted)****VdS Approval****Class C**

Small distributor housing for housing a pcb of dimensions 65 x 72 mm and the 10-pin distributor terminal 382030, for example for some IDS / FDS esserbus® transponders or the 8-fuse card 382040, flush mounted design.

Technical Data

Material

ABS

Dimensions (W x H x D)

120 x 120 x 30 mm

Cap

135 x 135 mm

Colour of housing

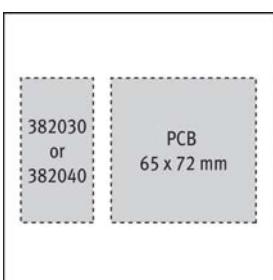
white, similar to RAL 9016

Type of protection

IP 40



The VdS approval applies in connection with the esserbus® users 384620, 384622, 384624 and 384628 and the distributor pcbs 382031 and 382040.



120242

**Plastic distributor VVD 230K****VdS Approval****Class C**

Small distributor housing, including cable link, for housing a pcb of dimensions 65 x 72 mm and the 10-pin distributor terminal 382030, for example for IDS / FDS esserbus® transponders or the 8-fuse card 382040, surface mounted design.

Technical Data

Type of protection

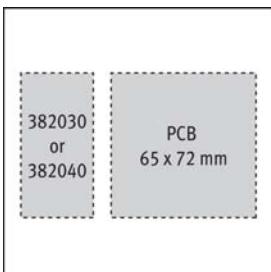
IP 40

Dimensions (W x H x D)

125 x 125 x 38 mm

Colour of housing

traffic-white, similar to RAL 9016



The VdS approval applies in connection with the esserbus® users 384620, 384622, 384624 and 384628 and the distributor pcbs 382031 and 382040.

Including cable link, 6 mm.

382030

**10-pin distributor without cover contact**

For mounting in IDS central unit 5008 and in housings 788600, 788601, 788650, 788651, 120240 to 120244.

**Technical Data**

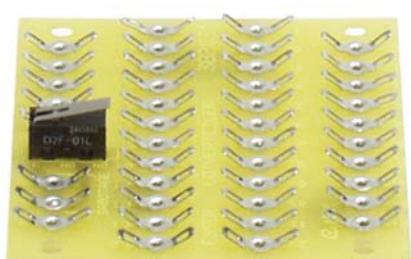
Connection technology

Solder/solder, 10-pin

Dimensions (W x D)

72 x 13 mm

382031

**42-pin distributor with cover contact****VdS Approval****G103027 (EMT), Class C**

For mounting in IDS central unit 5008 and in housings 788600, 788601, 788650, 788651, 120240 to 120244.

Technical Data

Connection technology

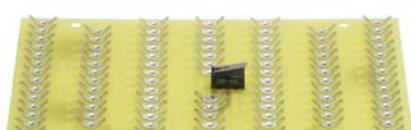
Solder/solder, 42-pin

Dimensions (W x D)

65 x 72 mm

The VdS approval applies in connection with the above housings.

381156

**92-pin distributor with cover contact****VdS Approval****G103029 (EMT), Class C**

For mounting in IDS central unit 5008 and in housings 788600, 788601, 788650, 788651.

Technical Data

Connection technology

Solder/solder, 92-pin

Dimensions (W x D)

150 x 82 mm

The VdS approval applies in connection with the above housings.

788600

**Surface mounted housing, grey**

Small distributor housing for housing two pcbs of dimensions 65 x 72 mm and the 10-pin distributor terminal 382030 or a pcb of dimensions 150 x 82 mm, surface mounted design.

Technical Data

Type of protection	IP 40
Dimensions (W x H x D)	189 x 131 x 47 mm
Material	ABS
Colour	grey, similar to RAL 7035

788601

**Flush mounted housing, grey**

Small distributor housing for housing two pcbs of dimensions 65 x 72 mm and the 10-pin distributor terminal 382030 or a pcb of dimensions 150 x 82 mm, flush mounted design.

Technical Data

Type of protection	IP 40
Dimensions (W x H)	207 x 149 mm (cover), otherwise same as 788600
Material	ABS
Colour	grey, similar to RAL 7035

788650

**Surface mounted housing, white**

Small distributor housing for housing two pcbs of dimensions 65 x 72 mm and the 10-pin distributor terminal 382030 or a pcb of dimensions 150 x 82 mm, surface mounted design.

Technical Data

Type of protection	IP 40
Dimensions (W x H x D)	189 x 131 x 47 mm
Material	ABS
Colour	white, similar to RAL 9016

788651

**Flush mounted housing, white**

Small distributor housing for housing two pcbs of dimensions 65 x 72 mm and the 10-pin distributor terminal 382030 or a pcb of dimensions 150 x 82 mm, flush mounted design.

Technical Data

Type of protection	IP 40
Dimensions (W x H)	207 x 149 mm
Material	ABS
Colour	white, similar to RAL 9016

050065

**Surface mounted plastic distributor (without insert)**
 VdS Approval
G189103 (EMT), Class C**Technical Data**

Material	Plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	grey-white, similar to RAL 9002

050066



Flush mounted plastic distributor (without insert)



VdS Approval

G189103 (EMT), Class C

Technical Data

Material
Dimensions (W x H x D)
Colour

Plastic
130 x 130 x 31mm
grey-white, similar to RAL 9002

050067



Flush mounted housing for articles 050066 and 050066.01



VdS Approval

G189103 (EMT), Class C

Technical Data

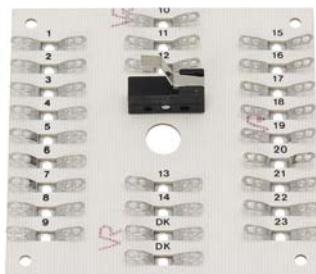
Material
Dimensions (W x H x D)
Colour

Plastic
118 x 118 x 31 mm
grey-white, similar to RAL 9002

050065.10



Distributor board containing 23 double soldering tabs and 1 cover contact



VdS Approval

G189103 (EMT), Class C

For integration in distributor housings 050065, 050066.

▶ **Small distributor**

050110



Small housing without soldering strip



For individual wiring

Technical Data

Environmental class according to VdS
Material
Dimensions (W x H x D)
Colour

II
Plastic
38 x 45 x 16 mm
pure white, similar to RAL 9010

050000



8-pin surface-mounted distributor without protection of the cover

**Technical Data**

Connection technology
Environmental class according to VdS
Housing
Dimensions (W x H x D)
Colour

Solder/solder, 8-pin
II
Plastic
38 x 84 x 19 mm
pure white, similar to RAL 9010

050002



6-pin surface-mounted distributor with protection of the cover

**VdS Approval****G193531 (EMT), Class B****Technical Data**

Connection technology	Solder/solder, 6-pin
Environmental class according to VdS	II
Material	Plastic
Dimensions (W x H x D)	38 x 84 x 19 mm
Colour	pure white, similar to RAL 9010

050035



Alarm glass terminal box

**VdS Approval****G186043 (EMT), Class C****Technical Data**

Connection technology	Solder/solder, 6-pin
Environmental class according to VdS	II
Dimensions (W x H x D)	38 x 45 x 16 mm
Colour	pure white, similar to RAL 9010

This terminal box is suitable especially for connecting alarm glasses. The alarm wires of the glass pane are inserted into the housing from behind.

► Plastic distributor

120217



Surface-mounted plastic distributor VVD 140, 14-pin

**VdS Approval****G186066 (EMT), Class C**

Small distributor with cover contact

Technical Data

Connection technology	Solder/solder, 14-pin
Environmental class according to VdS	II
Housing	Plastic
Colour	white
Dimensions (W x H x D)	115 x 45 x 27mm

050025



16-pin surface-mounted distributor with protection of the cover

**VdS Approval****G195030 (EMT), Class C****Technical Data**

Connection technology	Solder/solder, 16-pin
Environmental class according to VdS	II
Housing	Plastic
Colour	grey-white, similar to RAL 9002
Dimensions (W x H x D)	70 x 84 x 20 mm

160705

**Surface mounted plastic distributor, 20-pin****G187002 (EMT), Class C**

Small distributor with cover contact.

Technical Data

Connection technology	Solder/solder, 20-pin
Environmental class according to VdS	II
Housing	Plastic
Colour	white
Dimensions (W x H x D)	85 x 85 x 26 mm

120211

**Surface mounted plastic distributor VVD 215, 30-pin****G187108 (EMT), Class C**

Small distributor with cover contact.

Technical Data

Connection technology	Solder/solder, 30-pin
Environmental class according to VdS	II
Housing	Plastic
Colour	white
Dimensions (W x H x D)	85 x 85 x 26 mm

120213

**Plastic distributor VVD 215K, 30-pin****G187109 (EMT), Class C**

Small distributor with cover contact. With plastic-sheathed cable link and fixing piece.

Technical Data

Connection technology	Solder/solder, 30-pin
Length of cable link	approx. 300 mm
Dimensions of cable link	Ø inside approx. 8 mm; Ø outside approx. 11 mm
Environmental class according to VdS	II
Housing	Plastic
Colour	white
Dimensions (W x H x D)	85 x 85 x 26 mm



120215

**Surface mounted plastic distributor VVD 320, 40-pin****G187110 (EMT), Class C**

Small distributor with cover contact.

Technical Data

Connection technology	Solder/solder, 40-pin
Environmental class according to VdS	II
Housing	Plastic
Colour	white
Dimensions (W x H x D)	150 x 100 x 36 mm

120250

**Distributor LSA 16 w****VdS Approval****G193075 (EMT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

Number of connections by the IDC method of termination	2 x 8
Environmental class according to VdS	II
Housing	Plastic
Colour	white
Dimensions (W x H x D)	60 x 45 x 25 mm

120252

**Distributor LSA 32 w****VdS Approval****G187002 (EMT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

Number of connections by the IDC method of termination	2 x 16
Environmental class according to VdS	II
Dimensions (W x H x D)	85 x 85 x 26 mm
Colour of housing	white

120253

**Distributor LSA 32 b****VdS Approval****G187002 (EMT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

Number of connections by the IDC method of termination	2 x 16
Environmental class according to VdS	II
Dimensions (W x H x D)	85 x 85 x 26 mm
Colour	brown

120254

**Distributor LSA 64 w****VdS Approval****G187003 (EMT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

Number of connections by the IDC method of termination	2 x 32
Environmental class according to VdS	II
Dimensions (W x H x D)	150 x 100 x 36 mm
Colour of housing	white

120255

**Distributor LSA 64 b****VdS Approval****G187003 (EMT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

Number of connections by the IDC method of termination	2 x 32
Dimensions (W x H x D)	150 x 100 x 36 mm
Colour of housing	brown
Environmental class according to VdS	II

 Metal Distributors

050020



Distributor, 16-pin



VdS Approval

G17358 (EMT), Class C

Technical Data

Connection technology	Solder/solder, 16-pin
Environmental class according to VdS	II
Dimensions (W x H x D)	130 x 130 x 45 mm
Colour	grey-white, similar to RAL 9002

050021



Distributor, 32-pin



VdS Approval

G17310 (EMT), Class C

Technical Data

Connection technology	Solder/solder, 32-pin
Environmental class according to VdS	II
Dimensions (W x H x D)	215 x 130 x 45 mm
Colour	grey-white, similar to RAL 9002

050060



Distributor, 48-pin



VdS Approval

G185072 (EMT), Class C

Technical Data

Connection technology	Solder/solder, 48-pin
Environmental class according to VdS	II
Dimensions (W x H x D)	350 x 186 x 60 mm
Colour	grey-white, similar to RAL 9002

050034



Distributor, 64-pin



VdS Approval

G184086 (EMT), Class C

Technical Data

Connection technology	Solder/solder, 64-pin
Environmental class according to VdS	II
Dimensions (W x H x D)	215 x 215 x 45mm
Colour	grey-white, similar to RAL 9002

050061



Distributor, 96-pin



VdS Approval

G185071 (EMT), Class C

Technical Data

Connection technology	Solder/solder, 96-pin
Environmental class according to VdS	II
Dimensions (W x H x D)	350 x 300 x 60 mm
Colour	grey-white, similar to RAL 9002

050062



Distributor, 160-pin



VdS Approval

G188088 (EMT), Class C

Technical Data

Connection technology
Environmental class according to VdS
Dimensions (W x H x D)
Colour

Solder/solder, 160-pin
II
500 x 300 x 60 mm
grey-white, similar to RAL 9002

050019



Distributor block, 16-pin

**Technical Data**

Connection technology
Dimensions (W x H x D)

Solder/solder, 16-pin
60 x 72 x 19 mm

050095



Plug-in labelling field for distributor block.



2 units

160204



Surface mounted distributor VVD 300, 48-pin



VdS Approval

G182038 (EMT), Class C

Distributor with cover contact, sheet steel housing.

Technical Data

Connection technology
Environmental class according to VdS
Housing
Colour
Dimensions (W x H x D)

Solder/solder, 48-pin
II
Sheet steel
light-grey, similar to RAL 7032
155 x 145 x 55 mm

160206



Surface mounted distributor VVD 400, 84-pin



VdS Approval

G182039 (EMT), Class C

Distributor with cover contact, sheet steel housing.

Technical Data

Connection technology
Environmental class according to VdS
Housing
Colour
Dimensions (W x H x D)

Solder/solder, 84-pin
II
Sheet steel
light-grey, similar to RAL 7032
285 x 155 x 55mm

160209



Surface-mounted distributor VVD 600



VdS Approval

G182041 (EMT), 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 10 terminal strips of 20 DA each (180012) or 6 100-pin each distributor terminals (180844) can be mounted.

Technical Data

Environmental class according to VdS

II

Housing

Sheet steel

Colour

light-grey, similar to RAL 7032

Dimensions (W x H x D)

380 x 405 x 80 mm

Accessories for WD 500 and 600

180844



100-pin distributor terminal



180012



Screw-on strip

Screw-on solder strip for max. 20 double-wires (DA).



180013



Wire guiding strip for screw-on strip





Cable links

050223



Cable link type II, white



Technical Data

Dimensions (Ø)

Length

Colour

outside: 10 mm, inside: 7 mm

30 cm

grey-white, similar to RAL 9002

050233



Cable link type II, brown



Technical Data

Dimensions (Ø)

Length

Colour

outside: 10 mm, inside: 7 mm

30 cm

brown, similar to RAL 8017



Metal protective tube

050226



Metal protective tube type II, white



Technical Data

Dimensions (Ø)

Length

Colour

outside: 10 mm, inside: 7 mm

10 m

grey-white, similar to RAL 9002

050236



Metal protective tube type II, brown



Technical Data

Dimensions (Ø)

Length

Colour

outside: 10 mm, inside: 7 mm

10 m

brown

050205



Fixing caps for metal protective tube type II, white



Technical Data

Dimensions (Ø)

Colour

outside: 10 mm

grey-white, similar to RAL 9002

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050206



Fixing caps for metal protective tube type II, brown

**Technical Data**

Dimensions (Ø)
Colour

outside: 10 mm
brown, similar to RAL 8017

050213



Protective sleeve for metal protective tube type II, white

**Technical Data**

Dimensions (Ø)
Colour

7/6mm
grey-white, similar to RAL 9002



10 units

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)
Door opening angle
Fulcrum
Inside diameter

24 x 480 x 17 mm
up to 180°
up to 36 mm
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)
Door opening angle
Fulcrum
Inside diameter

24 x 260 x 17 mm
up to 100°
up to 18 mm
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
Door opening angle	up to 180°
Fulcrum	up to 18 mm
Inside diameter	8 mm

050260

 **Concealed cable link, medium**

Spiral without mounting box for use in hollow chamber profiles.

**Technical Data**

Dimensions (L)	241 mm
Door opening angle	up to 100°
Inside diameter	8 mm

050261

 **Concealed cable link, short**

Spiral without mounting box for use in hollow chamber profiles.

**Technical Data**

Dimensions (L)	155 mm
Door opening angle	up to 100°
Inside diameter	10 mm

050262

 **Concealed cable link, long**

Spiral without mounting box for use in hollow chamber profiles.

**Technical Data**

Dimensions (L)	370 mm
Door opening angle	up to 180°
Inside 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

Mains voltage	120 V - 250 V AC
Rated current	max. 2 A
Ambient temperature	-10 °C to +40 °C
Pitch	60.4 mm
Dimensions (W x H x D)	50.8 x 46.0 x 22.3 mm (excluding flange)
Operating frequency	50 - 400 Hz



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
- remains permanently elastic from -50°C to +220°C
- resistant to ageing, UV and weather, resistant to chemical contacts

Technical Data

Contents	90 ml
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032266



Contact spray



For improving the acoustic coupling between sensor tester and glass pane.

Technical Data

Contents	200 ml
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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 units

055112**3-pin solder plug-in strip**

5 units

055113**4-pin solder plug-in strip**

5 units

055114



5-pin solder plug-in strip



 5 units
INPUT TYPE

055115



6-pin solder plug-in strip



 5 units
INPUT TYPE

Relay

055074



Relay 12 V DC, 270 Ohm

**Technical Data**

Contact rating
Current consumption

250 V AC / 5 A (1 change-over contact)
typ. 45 mA

013100.08



Relay card



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
Contact rating

45 mA
250 V AC / 5 A (1 change-over contact)

070478



Group relay card



Plug-in card containing 4 relays 24 V DC/1 A for upgrading the relay extension module.

Technical Data

Current consumption at 12 V DC
Contact rating

16 mA
24 V DC / 1A (1 change-over contact)

 **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**

055100

 **Sealing pliers with ESSER engraving**

In the area of intrusion detection technology, sealing according to VdS classes B and C of installed devices must be done by means of wire seals (central units) or VdS adhesive seals (other devices).

Article to be discontinued by 31.12.2006

055100.01

 **1 package of seals**

800 units

Article to be discontinued by 31.12.2006

055100.02**1/2 kg of sealing wire**

In the area of fire detection technology, the sealing wire can be used for sealing the manual detectors 804970 and 804971 with the cover 704965.

Article to be discontinued by 31.12.2006**055131****Sealing screws, M4x6**

20 units

050097**VdS adhesive seal Ø 12 mm**

48 units

055105**Sealing caps**

10 units

055106**Press-in mandrel for sealing caps**

 **Cable****055300****Cable drum 4 x 0.14, white** 100 meters per drum**055301****Cable drum 4 x 0.14, brown** 100 meters per drum

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050040**Additional housing ZG 1**

With screw-on cover and built-in cover contact.

Technical Data

Material

Dimensions (W x H x D)

Colour

2 mm sheet steel, powder-coated

300 x 186 x 125 mm

grey-white, similar to RAL 9002

050046**Additional housing ZG 2**

With screw-on door and built-in cover contact.

Technical Data

Material

Dimensions (W x H x D)

Colour

2 mm sheet steel, powder-coated

350 x 300 x 152 mm

grey-white, similar to RAL 9002

050049**Housing ZG 3.1**

With screw-on door and built-in cover contact.

Technical Data

Material

Dimensions (W x H x D)

Colour

2 mm sheet steel, powder-coated

500 x 300 x 210 mm

grey-white, similar to RAL 9002

050050**Additional housing ZG 3.2**

With screw-on door and built-in cover contact.

Technical Data

Material

Dimensions (W x H x D)

Colour

2 mm sheet steel, powder-coated

500 x 300 x 260 mm

grey-white, similar to RAL 9002

Accessories:

With screw-on door.

050055**19" additional housing ZG 4**

12 HE, with lockable door and built-in cover contact.

Technical Data

Material

Dimensions (W x H x D)

Colour

2 mm sheet steel, powder-coated

580 x 640 x 300 mm

grey-white, similar to RAL 9002

050056**19" additional housing ZG 5**

12 HE, lockable door with Plexiglas window and built-in cover contact.

Technical Data

Material

Dimensions (W x H x D)

Colour

2 mm sheet steel, powder-coated

580 x 640 x 355 mm

grey-white, similar to RAL 9002

050057**19" additional housing ZG 6**

21 HE, lockable door with Plexiglas window and built-in cover contact.

Technical Data

Material

Dimensions (W x H x D)

Colour

2 mm sheet steel, powder-coated

600 x 1035 x 300 mm

grey-white, similar to RAL 9002

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050190**19" additional housing ZG 11**

Empty housing with front door and room for 2 x 6 HE front extension.
The housing bottom is prepared inter alia for accommodating the 1024-F mounting plates.

Technical Data

Material	2 mm sheet steel, powder-coated
Dimensions (W x H x D)	580 x 774 x 300 mm
Colour	grey-white, similar to RAL 9002

050191**19" additional housing ZG 12**

15 HE, lockable door with Plexiglas window and built-in cover contact.
The housing bottom is prepared inter alia for accommodating the 1024-F mounting plates.

Technical Data

Material	2 mm sheet steel, powder-coated
Dimensions (W x H x D)	580 x 774 x 335 mm
Colour	grey-white, similar to RAL 9002

050189**19" additional housing ZG 6.0.B**

21 HE, lockable door with Plexiglas window and built-in cover contact.
The housing bottom is prepared inter alia for accommodating the 1024-F mounting plates.

Technical Data

Material	2 mm sheet steel, powder-coated
Dimensions (W x H x D)	600 x 1035 x 335 mm
Colour	grey-white, similar to RAL 9002

050196**19" additional housing ZG 13, surface mounted**

6 HE, with removable dummy plates and built-in cover contact.

Technical Data

Material	2 mm sheet steel, powder-coated
Dimensions (W x H x D)	570 x 310 x 100 mm
Colour	grey-white, similar to RAL 9002

050198**19" additional housing ZG 14, surface mounted**

6 HE, with removable dummy plates and built-in cover contact.

Technical Data

Material	2 mm sheet steel, powder-coated
Dimensions (W x H x D)	570 x 440 x 120 mm
Colour	grey-white, similar to RAL 9002

013119 **19" dummy unit 3 HE**

Dummy unit for 19" switch cabinet installation dimension, headroom 3 height units.

**Technical Data**Material
Colour2 mm sheet steel, powder-coated
signal-grey, similar to RAL 7004**013118** **19" dummy unit 6 HE**

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

**Technical Data**Material
Colour2 mm sheet steel, powder-coated
signal-grey, similar to RAL 7004

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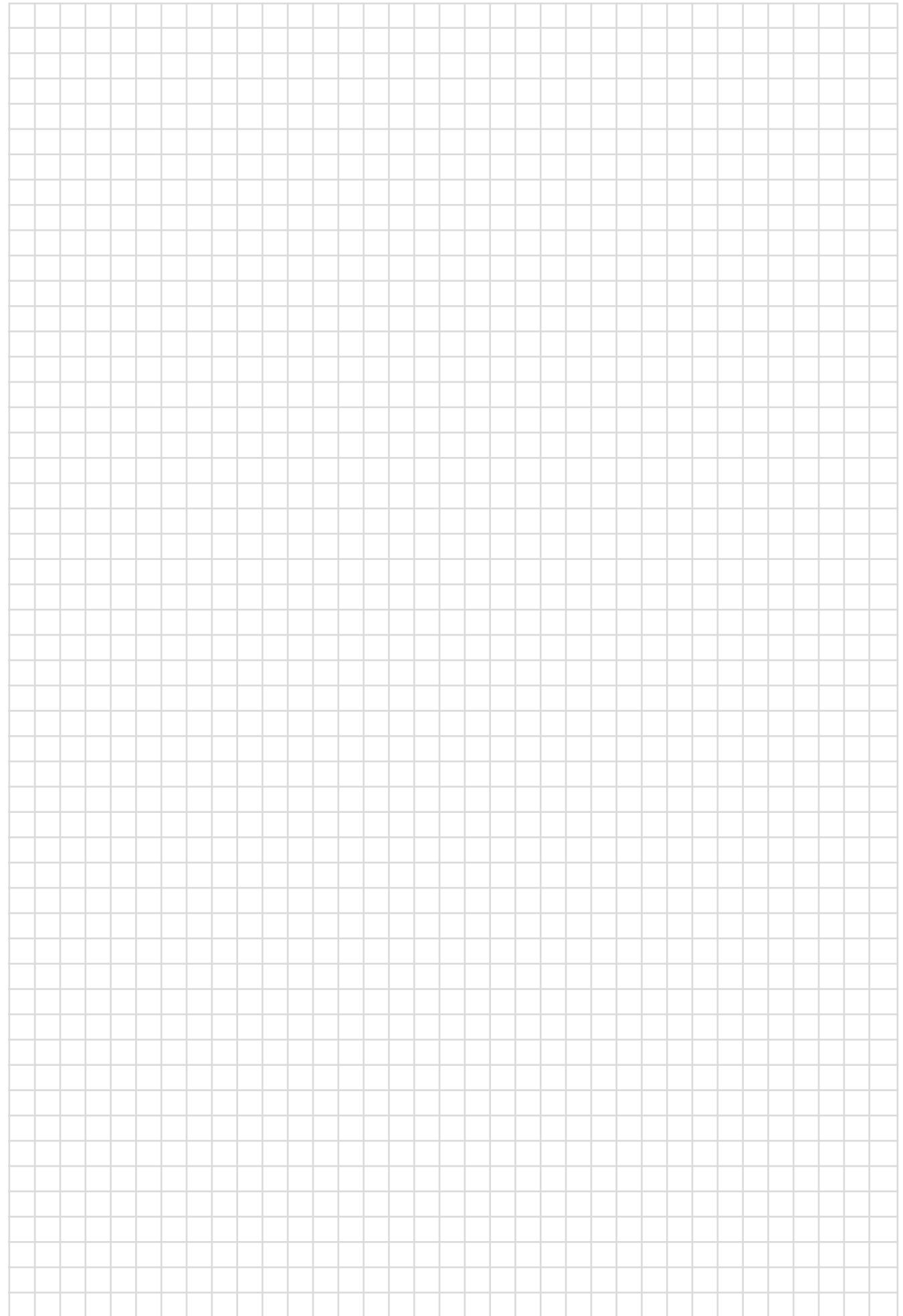
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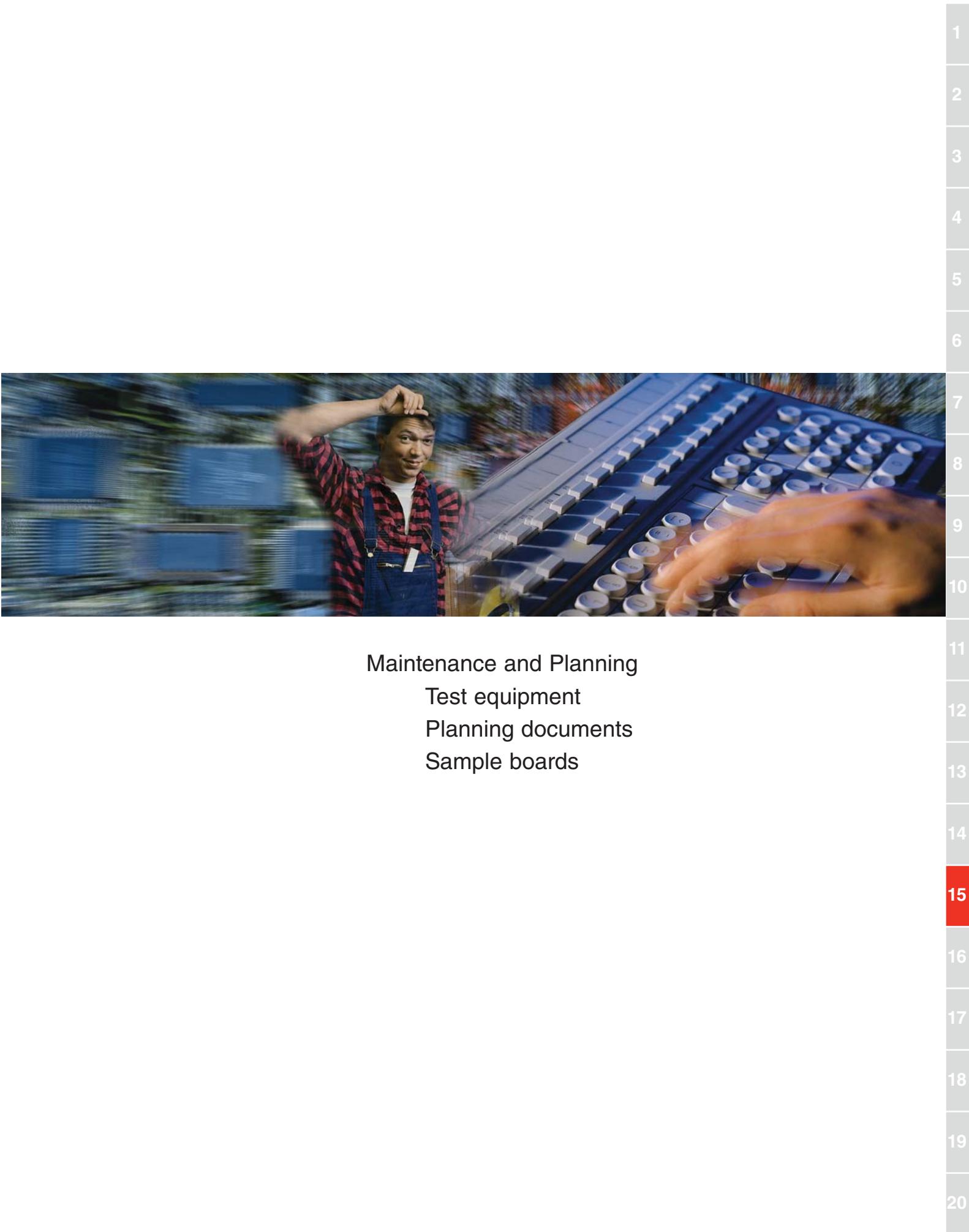
19

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A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Maintenance and Planning

Test equipment

Planning documents

Sample boards

058200

**High-speed modem V.90 external**

External unit with plug-in power supply



Not for intrusion detection central unit 100-AB8/AWUG.

For access control: Connection to ACS-1 directly via remote data transmission interface card 026480.18. Connection to ACS-8 directly without interface card. Connection to PC or bus controller via RS 232. It is strongly recommended using only this mode for connecting remote locations to the access control.



German manual, 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)

026809

**Serial connecting cable**

The cable is used to connect a serial COM interface to:
 -current central units HB/MB24, HB/MB48 and MB100
 -an interface converter 026817.03
 -an ACS-2 or ACS-8 for hardware setup

Technical Data

Connecting plug
Length

9-pin/socket - 9-pin/socket
2 m

013466

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

With 3-pin plug connector.



For use under Windows 98SE only

013467

**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 central unit programming.

059998

**Mobile programming device**

Intelligent programming device in small compact design with 16-key keypad and alphanumeric LCD display for user-guided control and input of application-specific data and for reading out event memories.

Technical Data

Dimensions (W x H x D)

100 x 45 x 180 mm

Firmware update possible via EPROM replacement.

► PC software E-TRANS

013700

**E-TRANS**

PC software for simple translation of the output texts of compatible devices. E-TRANS allows new language versions or adapted texts to be created. The management and translation of the text module are done under a Windows interface. After translation, the modified texts can be used to create an EPROM or loaded to adequately equipped central units via a programming cable. This will adapt the modified text outputs (e.g. on displays or printers) accordingly.

013701

**Software upgrade for E-TRANS**

 **Forms**

054504**Maintenance agreement form according to VDE 0833**

For intrusion detection systems.

054505**Inspection card**

For intrusion detection systems.

 **Log books**

054509**Neutral log book**

For hazard detection systems.

054510**Novar log book**

For hazard detection systems.

 **Planning documents**

054680**Manual for planning and projects - intrusion detection systems****054682****Manual for planning access control system projects**

The planning manual contains all important information ranging from the definition of terms to extensive practice-oriented planning examples for planning an access control system.

Sample boards



Intrusion detection technology

Effective sales promotion is more than just the distribution of brochures and advertising material.

Honeywell's sample board service gives you the opportunity of presenting their security technology with hands-on experience at a wide range of events.

Whether at in-house exhibitions, in exhibition rooms, at public events or other opportunities free to the public, the sample boards with their technology and hands-on experience are convincing.

Wherever you show up with Honeywell Security sample boards, you are demonstrating competence in

- Intrusion detection technology
- Access control
- Time recording
- Escape door controls / escape route technology
- Video technology

We loan you the sample boards for trade fairs or you can purchase them, for example, for permanent exhibition in your exhibition rooms.

Apart from the standard program, you can also order individual boards, customised to your needs and requirements, from us on request.

The standard sample boards are coated in white and have a 3 mm thick impact-resistant plastic edge protection. The recessed rear wall structure offers enough room for wiring.

The standard sample boards have the following dimensions:
W 920 x H 1300 x D 33 mm.

Please, order the desired board(s) in time prior to an event. If the desired board is not in stock, you must allow for a production time of 6 to 8 weeks.

Presentation sample cases for presentation and training can also be manufactured upon order.

Designs and prices on request.



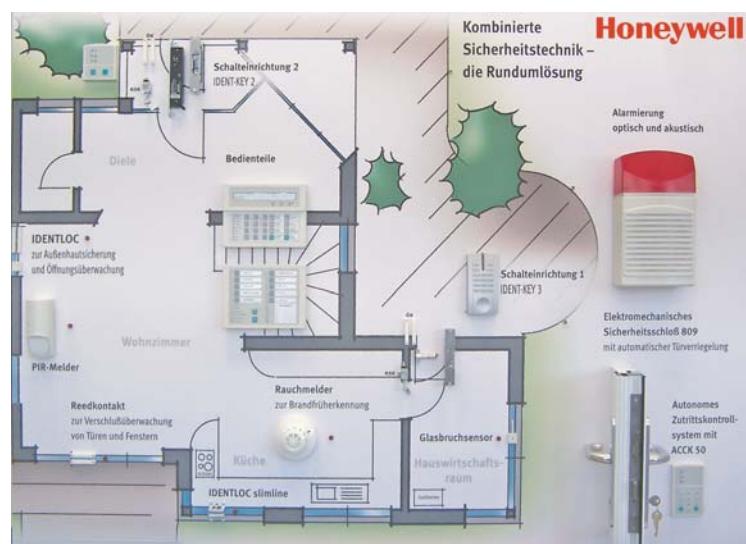
Access control technology



Access control and Time recording



Presentation sample cases



Sample board with background image



A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.



Escape route technology

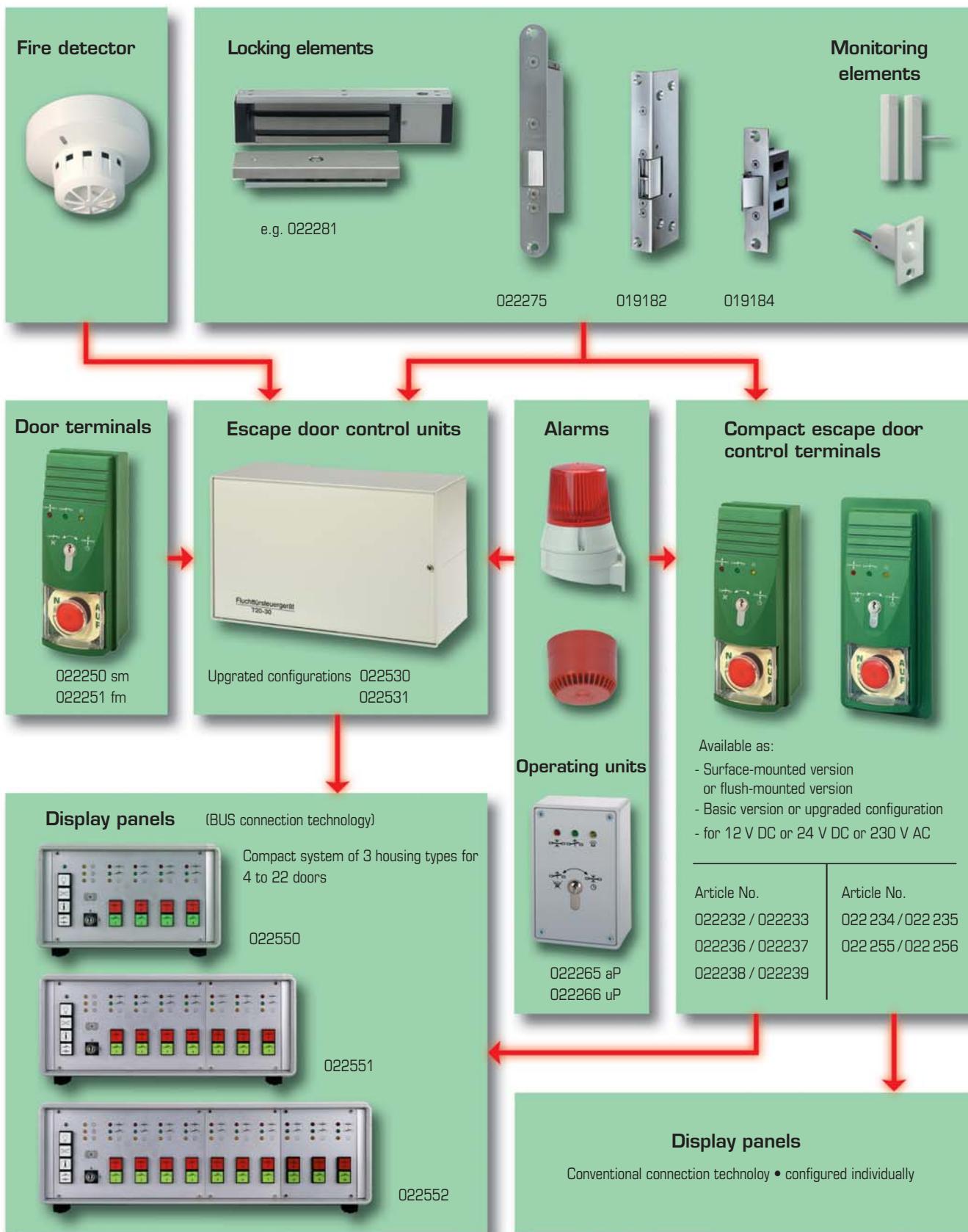
Escape door control units

Door terminals

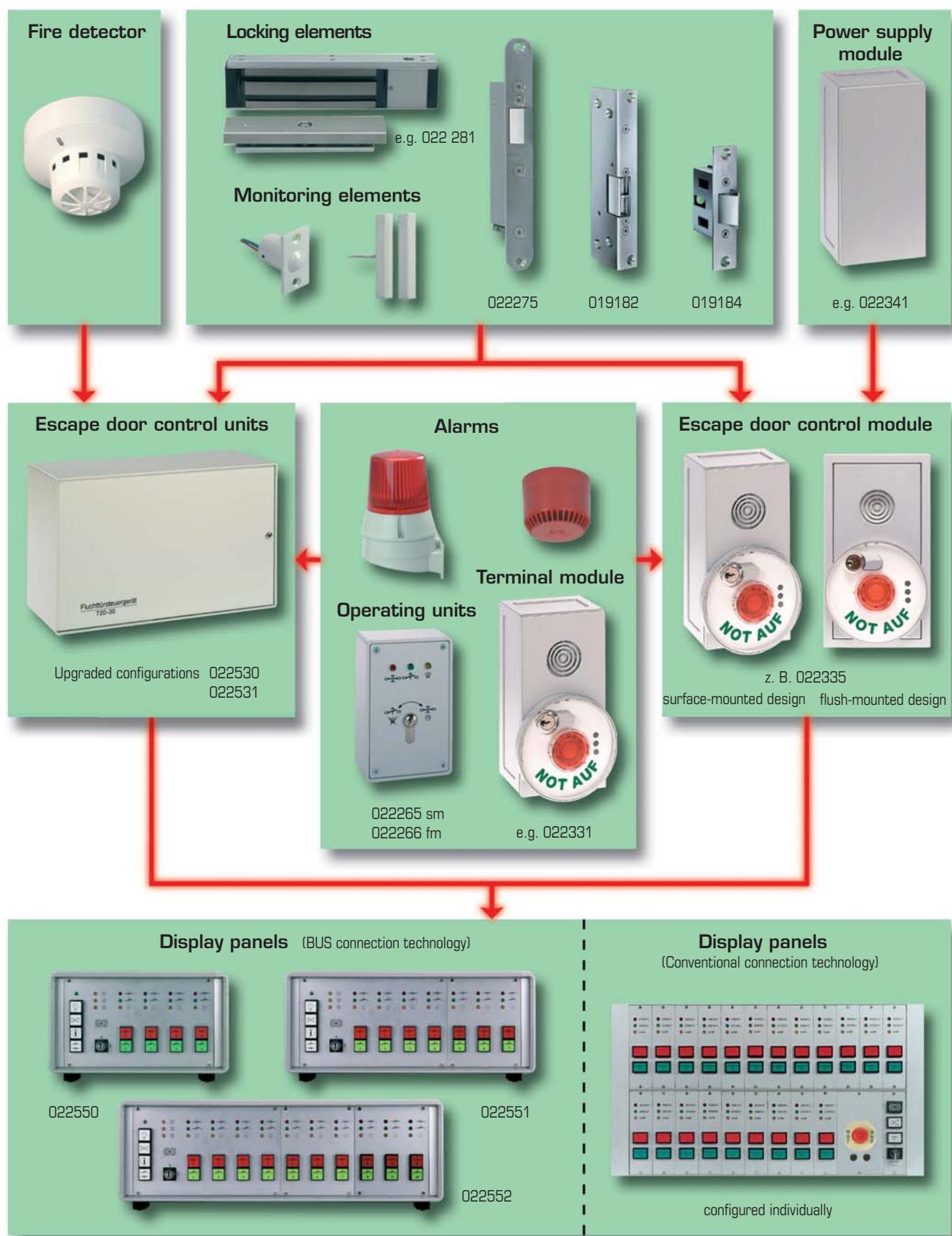
Panels

Escape door strike

Electric surface holding magnet

 List of versions


Terminal generation XT



022530



Escape door control unit 720-30

**Performance Features**

- External means of alarm connectable
- 5 fire detector connectable
- Released by fire detection system
- External switching device for authorised temporary release
- Can be connected to BUS control panel
- Temporary release for passage without alarm (card reader, door code, etc.)
- Door open monitoring
- Time limit for acoustic alarm
- Integrated emergency power supply (accumulator optional)

Upgraded configuration including power supply unit and bus connection technology. The escape door control unit is designed for controlling a door, allowing up to 2 locking elements to be operated via the integrated power supply unit. It is operated via an additional terminal module plus emergency pushbutton. The terminal module is supplied with power from the escape door control unit.

Technical Data

Rated mains voltage	230 V AC
Mains voltage range	230 V AC +10 % to -15 %
Frequency	50 Hz
Rated operating voltage	24 V DC
Rated load	1.24 A
Protection class according to DIN 40050	IP 30
Humidity class according to DIN 40040	Class F
Operating temperature range	0 °C to +40 °C
Dimensions (W x H x D)	300 x 186 x 152 mm

022531



Escape door control unit 720-32

**Performance Features**

- Central release from the panel via approved safety relay circuit.

Same as 022530, but also includes central release.

This special concept of the escape door control system is used wherever a local emergency button must be omitted at the door, for example in closed hospital wards, psychiatric hospitals, protecting workshops.

Compact escape door control terminals

Performance Features

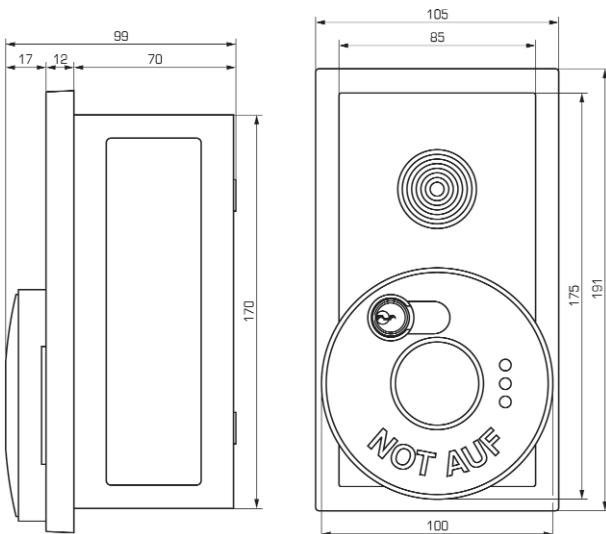
- Illuminated emergency button
- Transparent emergency button cover can only be removed by key (anti-theft protection)
- Additional terminal connectable to control module
- Optic status display via LEDs
- Surface or flush mounting possible without any added component
- Mounting in hollow walls possible

Compact escape door control terminals are a combination of control unit and door terminal/terminal module. This significantly simplifies mounting.

Apart from the four basic versions (white, green, stainless steel and brass optics), the devices of the XT series can be ordered in any colour from the RAL table. This makes any additional paint jobs, which probably would have to be carried out on-site by third parties, unnecessary.

Technical Data

Operating voltage range	12 V (-15 %) to 24 V DC (+15 %) stab.
Current consumption	own, max. 140 mA at 12 V/85 mA at 24 V
Output current	Locking elements max. 2 A
Contact rating	Relay 24 V/2 A
Signal	acoustic, can be set, max. 100 dB(A)/1 m
Type of protection according to DIN 40050	IP 40 (with built-in cylinder)
Operating temperature range	0 °C to +40 °C
Keybit position of the profiled cylinder	90 ° left (half cylinder)
Length	30 - 32.5 mm (half cylinder)
Dimensions (W x H x D)	100 x 175 x 99 mm (surface-mounted housing); 105 x 191 x 12 mm (frame)



Dimensional drawing (mm)

022334



Escape door control terminal XT, 12 V / 24 V DC, white



022335



Escape door control terminal XT, 12 V / 24 V DC, stainless steel optics



022336

||||||| Escape door control terminal XT, 12 V / 24 V DC, brass optics



022337

||||||| Escape door control terminal XT, 12 V / 24 V DC, green



► Terminal modules

Terminal modules for use on escape door control units.

By mounting the emergency button cover accordingly, the operator can decide whether the emergency button will break when actuated or whether it can be reused. The transparent cover can only be removed if in possession of the relevant key. Surface or flush mounting can be carried out without any further accessories. A mounting kit available as an option allows you to carry out flush mounting in hollow walls. Extended operating voltage range: 12 V to 24 V. Connection to a control unit is an easy solution of achieving an escape door having two escape directions.

Technical Data

Operating voltage range	12 V (-15 %) to 24 V DC (+15 %) stabilised
Current consumption	own, max. 55 mA at 12 V / 24 V
signal	acoustic, 100 dB(A)/1 m
Type of protection according to DIN 40050	IP 40 with built-in cylinder
Operating temperature range	0 °C to +40 °C
Keybit position of the profiled cylinder	90 ° left (half cylinder)
Length	A 30 - 32.5 mm (half cylinder)
Dimensions (W x H x D)	100 x 175 x 99 mm (surface-mounted housing) 191 x 105 x 12 mm (frame)



"Emergency button" sign

022330

||||||| Escape door terminal module XT, 12 V / 24 V DC, white



022331

||||||| Escape door terminal module XT, 12 V / 24 V DC, stainless steel optics



022332

||||||| Escape door terminal module XT, 12 V / 24 V DC, brass optics



022333

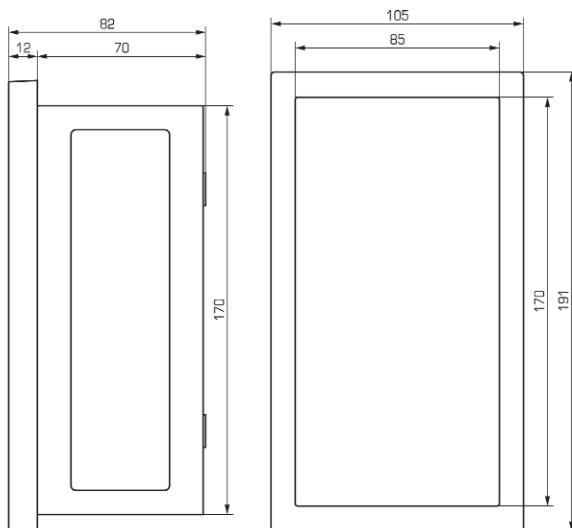
||||||| Escape door terminal module XT, 12 V / 24 V DC, green



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 Power supply module**Technical Data**

Connection voltage range	105 V to 250 V AC
Mains frequency	47 Hz to 63 Hz
Current consumption at 230 V AC	max. 0.2 A
Output current	max. 1.0 A at $T_u = 40^\circ\text{C}$
Type of protection according to DIN 40050	IP 40
Operating temperature range	0 °C to +40 °C
Dimensions (W x H x D)	85 x 170 x 82 mm (surface-mounted housing) 105 x 191 x 12 mm (frame)



Dimensional drawing (mm)

022340



Power supply module XT, 24 V DC, white



022341



Power supply module XT, 24 V DC, stainless steel optics



022342

 Power supply module XT, 24 V DC, brass optics

022343

 Power supply module XT, 24 V DC, green Accessories

022350

 Accessory kit for hollow wall mounting

For wall thickness of up to 33 mm

022351

 Emergency button cover interior part, red

022352

 Protective cover outer part, transparent

022353

 Seal for power supply module, white

022354



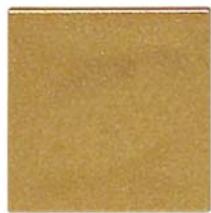
Seal for power supply module, stainless steel optics



022355



Seal for power supply module, brass optics



022356



Seal for power supply module, green



022357



Flush-mounted box, white



022358



Insertion label EMERGENCY OPEN



► Compact escape door control terminals

Performance Features

Basic version:

- Emergency button with protective cover (illuminated/forced opening)
- Key-operated button for door control
- Acoustic signal - 100 dB(A)
- LED door status display locked/unlocked/alarm

Upgraded configuration: (in addition to basic version)

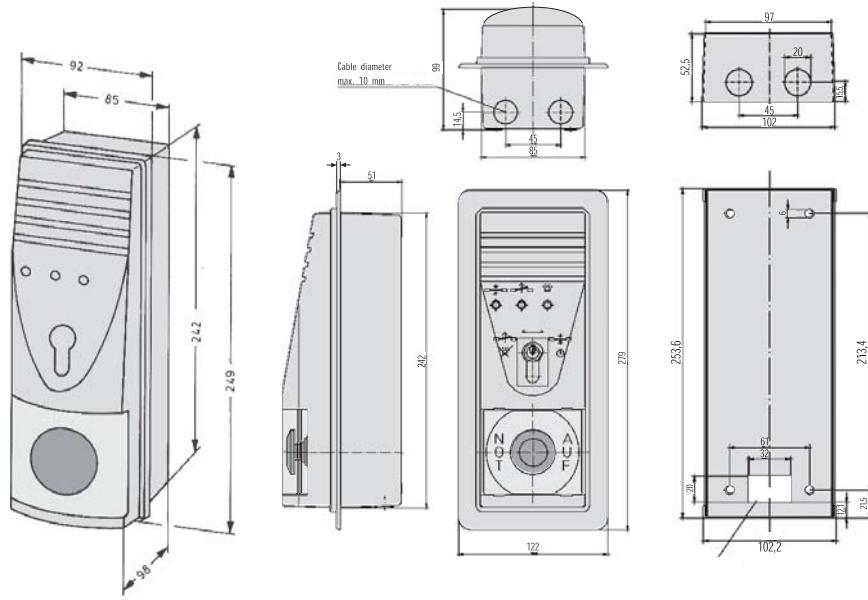
- Connection options for external switching devices, for example time (permanent release); access control system (authorised temporary release); key-operated switch / operating unit (manual unlocking and locking) times can be set for: temporary release, pre-alarm; internal alarm signalling device
- Connection option for external means of alarm

Compact escape door control terminals are a combination of control unit and door terminal, which allows escape door locking at a minimum expense, which of course fully complies with the "Building Supervision Authority requirements for electric locking of doors in escape routes".

The control terminals are available in several models, which are distinguished by connection voltage and range of performance features.

With respect to the connection voltage, the following models are available: 230 V alternating voltage (with integrated power supply), 24 V direct voltage, 12 V direct voltage. You can choose from a basic version and an upgraded configuration. They differ with respect to the different performance features and the connection options.

i In addition, both versions have connection options for automatic enable from a hazard detection system. The upgraded configurations are equipped with a BUS connection for connecting to a master control panel.



Dimensional drawing (mm)

► Compact escape door control terminals 24 V

Technical Data

Rated operating voltage	24 V DC
Operating voltage range	24 V DC ±10 % stabilised direct voltage; residual ripple Uss max. 1 V
Current consumption	own max. 150 mA for external consumers max. 640 mA
Contact rating of the relays	max. 24 V / max. 1 A with resistive load
Type of protection according to DIN 40050	IP 20
Humidity class	F (according to DIN 40050)
Ambient temperature	0 - 35 °C
Display	LEDs red, green, yellow
Signal	acoustic 100 dB(A)/1m
Installation position	vertical
Keybit position of the profiled cylinder	90 ° left (half cylinder)
Length A	30.5 mm (half cylinder)
Dimensions (L x W x H)	92.5 x 250 x 98 mm

022234



Compact control terminal, model 1338-10, surface-mounted design



Basic version.

Technical Data

Rated connection voltage	230 V AC
Operating voltage	24 V DC

022235



Compact control terminal, model 1338-11, flush-mounted design



Basic version.

Technical Data

Rated connection voltage	230 V AC
Operating voltage	24 V DC



Flush-mounted housing

022236



Compact control terminal, model 1338-20, surface-mounted design



Upgraded configuration.

Technical Data

Rated connection voltage	230 V AC
Operating voltage	24 V DC

Escape door control units

Compact escape door control terminals

022237

||||||| Compact control terminal, model 1338-21, flush-mounted design



Upgraded configuration.

Technical Data

Rated connection voltage	230 V AC
Operating voltage	24 V DC



022238

||||||| Compact control terminal, model 1340-20, surface-mounted design



Upgraded configuration.

Technical Data

Rated connection voltage	24 V DC
Operating voltage	24 V DC

022239

||||||| Compact control terminal, model 1340-21, flush-mounted design



Upgraded configuration.

Technical Data

Rated connection voltage	24 V DC
Operating voltage	24 V DC



Escape door control units

Compact escape door control terminals

► Compact escape door control terminals 12 V

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	12 V DC ±10 % stabilised direct voltage; residual ripple Uss max. 1 V
Current consumption	own max. 200 mA for external consumers max. 1 mA
Contact rating of the relays	max. 24 V /1 A with resistive load
Type of protection according to DIN 40050	IP 20
Humidity class	F (according to DIN 40050)
Ambient temperature	0 - 35 °C
Display	LEDs red, green, yellow
Signal	acoustic 100 dB(A)/1m
Installation position	vertical
Keybit position of the profiled cylinder	90 ° left (half cylinder)
Length A	30.5 mm (half cylinder)
Dimensions (W x H x D)	92.5 x 250 x 98 mm

022255



Control terminal, model 1340-10E, surface-mounted design



Basic version.

Technical Data

Rated connection voltage	12 V DC
Operating voltage	12 V DC

022232



Compact control terminal, model 1340-20, surface-mounted design



Upgraded configuration.

Technical Data

Rated connection voltage	12 V DC
Operating voltage	12 V DC

022233



Compact control terminal, model 1340-21, flush-mounted design



Upgraded configuration.

Technical Data

Rated connection voltage	12 V DC
Operating voltage	12 V DC

Flush-mounted housing

► Operating elements

Performance Features

- Emergency switch with protective cover (not destroyed upon actuation) for release in case of panic
- Key-operated switch for door locking ON / OFF, reset, temporary release, (for use with control unit 022530 only)
- LEDs for door locked, door unlocked and alarm
- Cover contact as sabotage contact
- "Emergency Exit" sign is enclosed

Door terminal for indoor use for operation using an escape door control unit

022250



Door terminal, model 1337-10, surface-mounted design, 24 V DC



For control units 022530 and 022531.

Technical Data

Dimensions (W x H x D)

92.5 x 250 x 98mm

022251



Door terminal, model 1337-11, flush-mounted design, 24 V DC



For control units 022530 and 022531.

Technical Data

Dimensions (W x H x D)

85 x 242 x 98 mm
122 x 280 x 3 mm, frame

Flush-mounted housing

► Operating units for outdoor use

022265

||||||| Outdoor operating unit, surface-mounted version



With 3 LEDs (door locked/door unlocked/alarm) on control units 022271/022272/022273.

Technical Data

Dimensions (W x H x D) 98 x 153 x 52 mm

Waterproof, for half cylinders

Accessories:

028032 Half cylinder for outdoor operating unit

022266

||||||| Outdoor operating unit, flush-mounted version



With 3 LEDs (door locked/door unlocked/alarm) on control units 022271/022272/022273.

Technical Data

Dimensions (W x H x D) 94 x 149 x 47 mm (housing);
115 x 171 x 3 mm (front plate)

Waterproof, for half cylinders

Accessories:

028032 Half cylinder for outdoor operating unit

022269

||||||| Set of safety screws

For operating units 022265 and 022266.

Escape door control units

Door terminals

Connectable locking elements

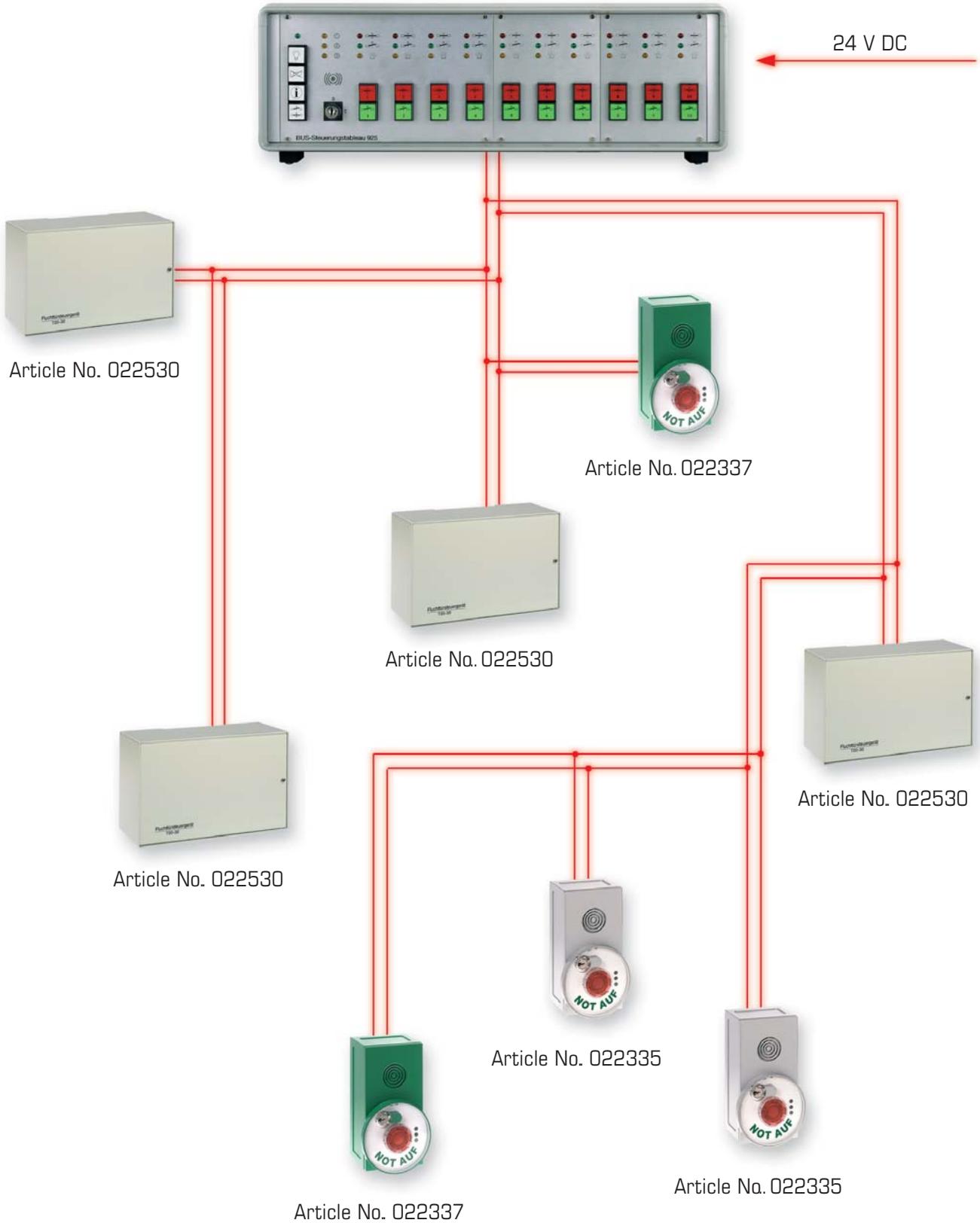
Control unit / Control module					Locking element (max. number)			
Connection voltage	Operating voltage	Version	Article No.	Type of mounting	Escape door strike type 331	Swing door strike type 022275	Holding magnet	
				sm			022 281 022 284	022 283
230 V AC	24 V DC	Basic	022234	•	2		1	
			022235	•	2		1	
		Upgraded	022 530	•	2	2	2	2
			022 531	•	2	2	2	2
			022 236	•	2		1	
			022 237	•	2		1	
			022 238	•	2	2	2	2
			022 239	•	2	2	2	2
		Basic	022 256	•	2		1	2
		Upgraded	022 232	•	2		1	2
			022 233	•	2		1	2

= Control unit

Control unit XT					Locking element (max. number)			
Supply voltage	Connection voltage	Operating voltage	Article No.	Type of mounting	Escape door strike type 331	Swing door strike type 022275	Holding magnet	
				sm and fm suitable			022 281 022 284	022 283
External power supply	12 V-24 V DC (2 A)	12 V	022 334	•	6	–	3	4
		24 V	022 335		12	12	6	8
Power supply module XT	24 V DC	24 V	022 336 022 337 022 371		6	6	3	3

 Central control and monitoring

The bus technology allows very simple and efficient wiring of the individual components.



Control panel with BUS connection technology

If central control and monitoring of escape door is desired, the control panels provide the elements necessary for this.

The panels are used in combination with bus-capable control units and provide simple wiring in 2-wire technology.

3 housing types are available:

Switchboard panel housing: Suitable for mounting, for example, in a reception console.

A wraparound frame conceals the installation opening.

Wall/tabletop housing: This device can be used for wall mounting or as table top unit.

19" module carrier: Used for integration of the display panels in the 19" housing.

The 19" module carrier has been constructed in open design.

Technical Data

Operating voltage range

12 v - 24 V DC (unsmoothed)

Power consumption

max. 9.7 W (BUS control module); max. 0.3 W

(BUS door module)



For standard applications up to max. 19 or 22 doors, just select the suitable panel.

For applications having a higher number of doors or for special models, we shall be happy to put together an individual configurations for you. The panels are supplied externally with power, for example via the transformers/rectifiers 094000 or 094100.

Switchboard panel housing

022540



BUS control panel for 4 doors



Technical Data

Dimensions (W x H x D)

270 x 170 x 176 mm, outside

Dimensions (W x H)

231 x 134 mm, installation opening

022541



BUS control panel for 7 doors



Technical Data

Dimensions (W x H x D)

376 x 170 x 176 mm, outside

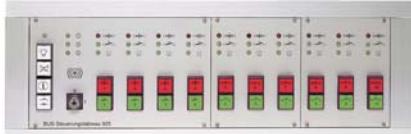
Dimensions (W x H)

338 x 134 mm, installation opening

022542



BUS control panel for 10 doors

**Technical Data**

Dimensions (W x H x D)
Dimensions (W x H)

438 x 170 x 176 mm, outside
444 x 134 mm, installation opening

022543



BUS control panel for 16 doors

Technical Data

Dimensions (W x H x D)
Dimensions (W x H)

376 x 303 x 176 mm, outside
338 x 267 mm, installation opening

022544



BUS control panel for 22 doors

Technical Data

Dimensions (W x H x D)
Dimensions (W x H)

483 x 303 x 176 mm, outside
444 x 267 mm, installation opening

022545



BUS control panel with EMERGENCY OPEN for 4 doors

Technical Data

Dimensions (W x H x D)
Dimensions (W x H)

376 x 170 x 176 mm, outside
388 x 134 mm, installation opening

022546



BUS control panel with EMERGENCY OPEN for 7 doors

Technical Data

Dimensions (W x H x D)
Dimensions (W x H)

483 x 170 x 176 mm, outside
444 x 134 mm, installation opening

022547



BUS control panel with EMERGENCY OPEN for 13 doors

Technical Data

Dimensions (W x H x D)
Dimensions (W x H)

376 x 303 x 176 mm, outside
338 x 267 mm, installation opening

022548



BUS control panel with EMERGENCY OPEN for 19 doors

Technical Data

Dimensions (W x H x D)
Dimensions (W x H)

483 x 303 x 176 mm, outside
444 x 267 mm, installation opening



Wall/tabletop housing

022550



BUS control panel for 4 doors



Technical Data

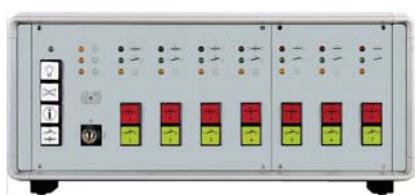
External dimensions (W x H x D)

259 x 152 x 269 mm

022551



BUS control panel for 7 doors



Technical Data

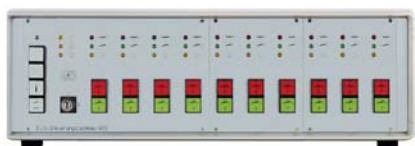
External dimensions (W x H x D)

366 x 152 x 269 mm

022552



BUS control panel for 10 doors



Technical Data

External dimensions (W x H x D)

473 x 152 x 269 mm

022553



BUS control panel for 16 doors

Technical Data

External dimensions (W x H x D)

366 x 285 x 269 mm

022554



BUS control panel for 22 doors

Technical Data

External dimensions (W x H x D)

473 x 285 x 269 mm

022555



BUS control panel with EMERGENCY OPEN for 4 doors

Technical Data

External dimensions (W x H x D)

366 x 152 x 269 mm

022556



BUS control panel with EMERGENCY OPEN for 7 doors

Technical Data

External dimensions (W x H x D)

473 x 152 x 269 mm

022557**BUS control panel with EMERGENCY OPEN for 13 doors****Technical Data**

External dimensions (W x H x D)

366 x 285 x 269 mm

022558**BUS control panel with EMERGENCY OPEN for 19 doors****Technical Data**

External dimensions (W x H x D)

473 x 285 x 269 mm

19" module carrier**022560****BUS control panel for 4 doors****Technical Data**

External dimensions (W x H x D)

270 x 133 x 176 mm

022561**BUS control panel for 7 doors****Technical Data**

External dimensions (W x H x D)

376 x 133 x 176 mm

022562**BUS control panel for 10 doors****Technical Data**

External dimensions (W x H x D)

483 x 133 x 176 mm

022563**BUS control panel for 16 doors****Technical Data**

External dimensions (W x H x D)

376 x 266 x 176 mm

022564**BUS control panel for 22 doors****Technical Data**

External dimensions (W x H x D)

483 x 266 x 176 mm

022565**BUS control panel with EMERGENCY OPEN for 4 doors****Technical Data**

External dimensions (W x H x D)

376 x 133 x 176 mm

022566

**BUS control panel with EMERGENCY OPEN for 7 doors****Technical Data**

External dimensions (W x H x D)

483 x 133 x 176 mm

022567

**BUS control panel with EMERGENCY OPEN for 13 doors****Technical Data**

External dimensions (W x H x D)

376 x 266 x 176 mm

022568

**BUS control panel with EMERGENCY OPEN for 19 doors****Technical Data**

External dimensions (W x H x D)

483 x 266 x 176 mm

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 Customised products

022295



Escape door control monitoring panel according to list



Individually configured panel. For projects of more than 19 or 22 doors, we offer customised control panels. In order to be able to design an optimum coordination of the specifications for an object-specific offer, we need information on the function and number of doors.

The panel coordinated to the needs of the particular customer contains door control and monitoring modules of the individual escape doors and a central control module.

022580



BCM bus controller for escape door control



The BUS Controller provides a serial RS 232 interface for connection to a PC. This allows, in combination with WINMAG, the visualisation and control of up to 120 escape door controls.

All processor functions necessary for BUS communication are already integrated in the BUS Controller. If the connected escape door controls are to be reproduced also in one or more panels, they must be designed as parallel panels (special models on request).



Power supplies that fit the BUS Controller 925:

094000 Power supply 24 V DC

094002 Emergency power supply 24 V DC, including 2 accumulators 018003

022581



BUS Repeater escape door control



When installing an escape door control system, the overall line length very quickly reaches several hundred meters. For larger systems, starting from a line length of 1000 m (per BUS lane), a BUS Repeater must be installed. This BUS Repeater amplifies the BUS signal, thus allowing escape door BUS systems with several kilometers of line length. Another advantage of the BUS Repeater is the galvanic separation of the BUS line. Thus, the installation of large systems can be subdivided, for example by floors. In case of failure, owing to the galvanic separation, only the lane in question will fail, while the remainder of the BUS system will remain fully functional.

Technical Data

Rated connection voltage	12 V AC/DC
Current consumption	max. 60 mA
Operating temperature range	0 °C to +40 °C
Dimensions (W x H x D)	118 x 118 x 30 mm
Colour	grey-white, similar to RAL 9002

► Escape door strike model 331

Performance Features

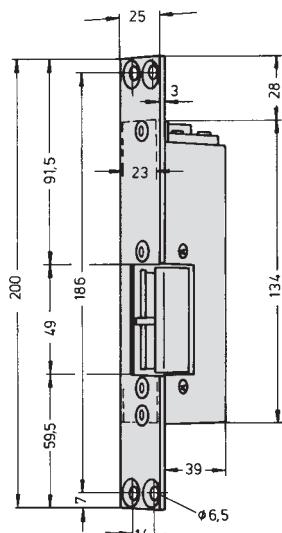
- Counter pressure of up to 5000 N
- Pressure resistance against break-open attempts: 7,500 N
- Principle of operation: No-load current principle

The escape door strike model 331 is an electromagnetic locking system for escape doors. An important point emphasising the functionality of this escape door strike is the safe unlocking when the power is switched off, even when the counter pressures acting on the door are up to 5,000 N.

The design is comparable to a commercially available electric safety door strike. This means, simple, uncomplicated mounting independent of the built-in panic lock. The latch bolt lock, built into the door unit as counter piece, completes the locking system. Integrated monitoring contacts monitor the locking function.



DL = DIN left-hand; DR = DIN right-hand; kl = short, flat striking plate; kiW = short angled striking plate; Fafix = door strike with adjustable and fixable door strike latch bolt



Dimensional drawing (mm)

019167

Escape door strike 331, DL, kl 12 V, with Fafix adjustment



019168

Escape door strike 331, DL, kl 24 V, with Fafix adjustment

019169

Escape door strike 331, DR, kl 12 V, with Fafix adjustment

019171

Escape door strike 331, DR, kl 24 V, with Fafix adjustment

Escape door control units

Escape door strike

019172



Escape door strike 331, DL, kiW 12 V, with Fafix adjustment



019173



Escape door strike 331, DL, kiW 24 V, with Fafix adjustment

019174



Escape door strike 331, DR, kiW 12 V, with Fafix adjustment

019175



Escape door strike 331, DR, kiW 24 V, with Fafix adjustment

019176



Escape door strike with flat striking plate, DIN left-hand, 12 V DC



019177



Escape door strike with flat striking plate, DIN right-hand, 12 V DC



019178



Escape door strike with angled striking plate, DIN left-hand, 12 V DC



019179

 Escape door strike with angled striking plate, DIN right-hand, 12 V DC

019180

 Escape door strike with flat striking plate, DIN left-hand, 24 V DC

019181

 Escape door strike with flat striking plate, DIN right-hand, 24 V DC

019182

 Escape door strike with angled striking plate, DIN left-hand, 24 V DC

019183

 Escape door strike with angled striking plate, DIN right-hand, 24 V DC

019184

 Slot-type latch bolt lock, type 807-10

Counter piece for escape door strike, with adjustable latch bolt lock between 12 and 17 mm.

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► Escape door strike model 331 V

Performance Features

- Principle of operation: No-load current principle
- Safe unlocking at a counter pressure of up to 5,000 N
- Pressure resistance against break-open attempts: 7,500 N

The model 331 V is an escape door strike that can be inserted directly in connection with a block lock.

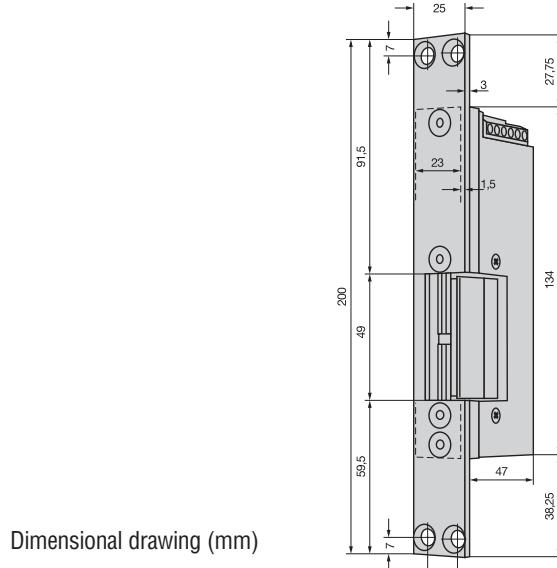
The combination of block lock and escape door strike makes it possible that person accidentally locked in can in an emergency situation also leave the hazard zone by the door which has been armed.

No electro-mechanical locking element such as 019031 may be used on a door that is located on a escape route. This is why it is prohibited to use an alternative arming device. In this case, the combination of block lock and FTÖ 331V is the safe and approved solution for both applications, arming device and escape door.

Technical Data

Rated voltage	24 V DC/12 V DC
Current consumption	160 mA/320 mA

 AKRR = monitoring contact as potential-free change-over contact. Actuated by the armature.



019166



Escape door strike 331 V, AKRR, DL/DR, 12 V



Approval

G197025 (EMT), Class C

With flat striking plate.



019170



Escape door strike 331 V, AKRR, DL/DR, 24 V



Approval

G197025 (EMT), Class C

With flat striking plate.



 **Electric panic strike model 351 AKRR**

022275



 **Electric panic strike model 351 AKRR**

Performance Features

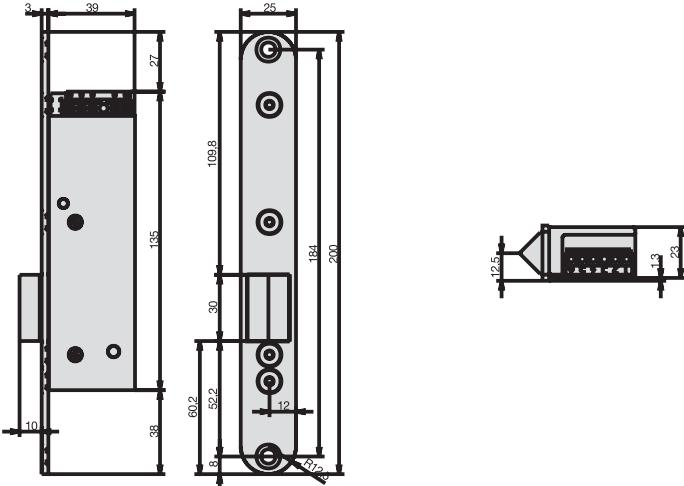
- Safe unlocking at a counter pressure of up to 5,000 N
- Pressure resistance against break-open attempts: 5,000 N
- Principle of operation: No-load current principle

Technical Data

Rated voltage	24 V DC
Current consumption	160 mA
Installation position	universal
Rebate clearance	2 - 4.5 mm, recommended 3 mm
Dead bolt throw	10 mm
Max. load	max. 25V/1A

 Please note when ordering: Apart from the integrated disabled message (armature contact), an additional mechanical door contact is required. It prevents the locking from being activated with the door open.

 4 spacer plates; striking plate



Dimensional drawing (mm)

 **Escape door strike for surface mounted housing**

019046



 **Strike with load current function**

Fits surface mounted housing art. no. 019185.10, DIN left-hand FAFIX, without striking plate, approved for fire barrier doors.

019187



Escape door strike 331, without striking plate, 12 V



For surface mounted housing A01, with monitoring contact.
Access control door strike in no-load current version.

019188



Escape door strike 331, without striking plate, 24 V



For surface mounted housing A01, with monitoring contact.
Access control door strike in no-load current version.

019185.10



Surface mounted housing model A 01 for steel and wooden doors



For escape door strikes 019187, 019188 and strike with load current function 019046.

Technical Data

Dimensions (W x H x D)
Material

168 x 57 x 40 mm
Stainless steel

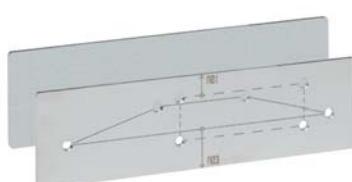
For the technical details, see graphic "Detailed views of surface mounted housings A01, A04 and mounting bracket A03"

Without door strike

019190.10



Mounting plate set A04



The combination of mounting plate A04 and surface mounted housing A01 replaces the previous surface mounted housing A02. The mounting plate A04 can also be used for fastening the mounting bracket A03.

Technical Data

Material

Stainless steel

019189.10



Mounting bracket A03 for surface mounted housing A01



The mounting bracket A03 can be used to compensate an offset between door leaf and door frame of at most +4 mm or at most -9 mm. An additional -2 mm can be compensated by means of the Fafix adjustment of the door strike latch bolt. This means that the door leaf can be moved back by up to 11 mm, relative to the door frame face or project from it by up to 4 mm.

Technical Data

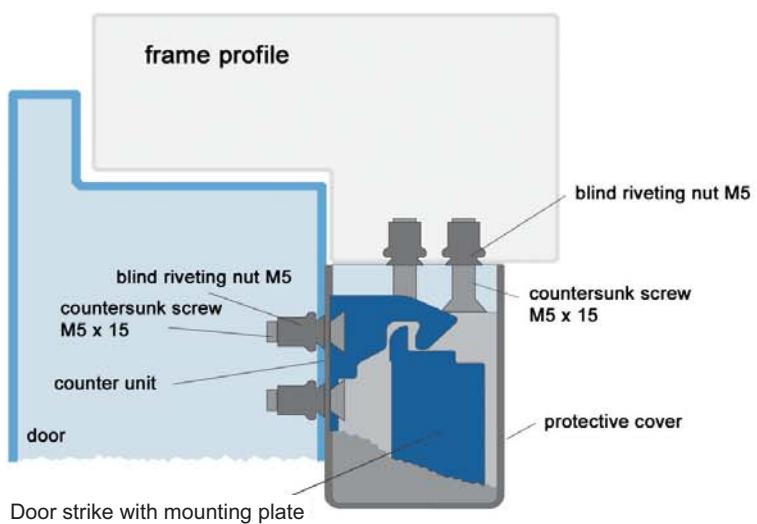
Material

Stainless steel

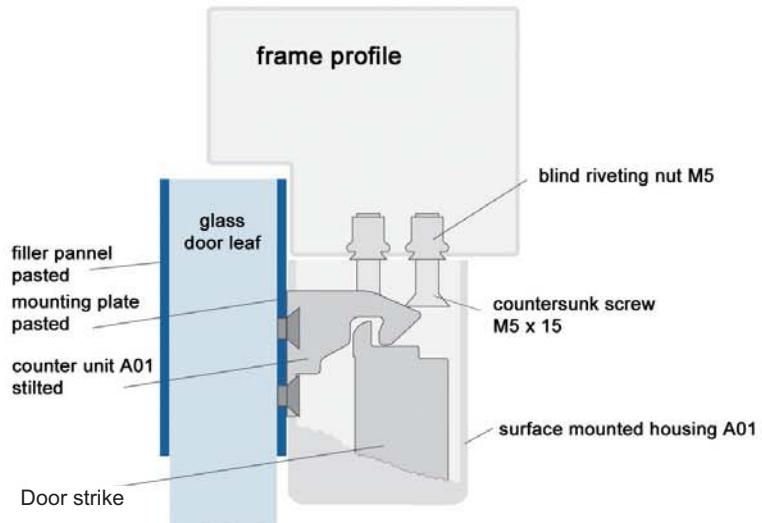
For flush-surface doors

 Detailed views of surface mounted housing A01, A04 and mounting bracket A03

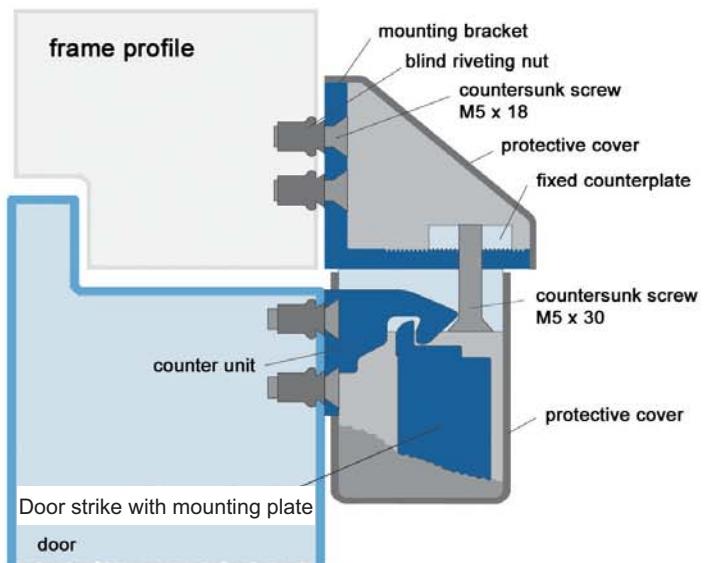
Surface mounted housing A01 for steel doors and wooden doors



Assembly kit A04 for glass door



surface mounted housing A01 with mounting bracket A03



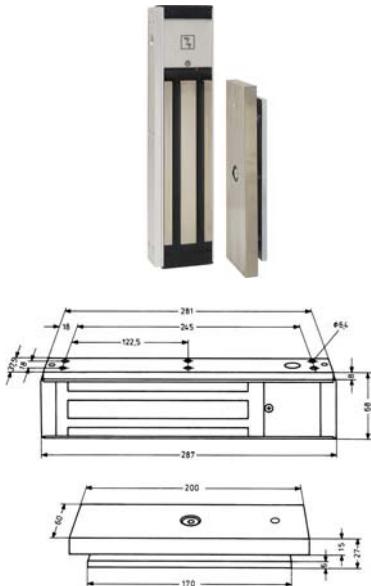
Electric surface holding magnet

Holding magnets for use in escape door controls. The advantage of the surface holding magnet is its easy mounting. It can also be retrofitted later on, without any particular problems, to existing doors. The surface holding magnet is mounted to the door frame and the counter plate to the door leaf. Locking takes place electromagnetically. This means that there are no moving parts, i.e., maximum security of the door locking and release, even with large counter pressures. A Hall sensor integrated in the sensor monitors whether the counter-holding plate is held magnetically by the magnet.

022281



Surface holding magnet model 828-44

**Technical Data**

Rated voltage	12 V DC / 24 V DC
Current consumption	630 mA / 315 mA
Rated power	7.5 W
Duty cycle	100 % duty cycle
Holding force	5000 N (500 kp)
Residual holding power	0 N
Switching contact	Relay contact, potential-free change-over contact, max. switching current 2 A resistive load
Colour	natural silver / anodised

 For single-leaf doors

022284



Surface holding magnet model 828-47



Series design including mounting plate and concealed connection in the aluminium body. With integrated Hall sensor and two-colour LED display for door "open" or magnetically "locked". Includes counter-holding plate.

Technical Data

Rated voltage	12 V DC / 24 V DC
Current consumption	630 mA / 315 mA
Rated power	7.5 W
Duty cycle	100 % duty cycle
Holding force	5,000 N (500 kp)
Residual holding power	0 N
Switching contact	Relay contact, potential-free change-over contact, max. switching current 2 A resistive load
Colour	dark bronze / anodised

 For single-leaf doors

022294



Mounting kit 828-7 for surface holding magnet type 828



 For mounting to flush-surface door elements, complete with spacer plates and fixed counter piece.

022292


Mounting kit 828-6 for surface holding magnet type 828


The mounting kit covers the surface holding magnet and counter-holding plate with the door closed.



Plastic cover; adjustable mounting bracket; fixing bracket 828-4

022293


Mounting counter fixing plate type 828-5


For counter-holding plate 828.

Mounting counter fixing plates are used to allow one-piece screw-joints to be mounted to wooden doors. This gives greater stability when mounting the counter-holding plates to wooden doors.

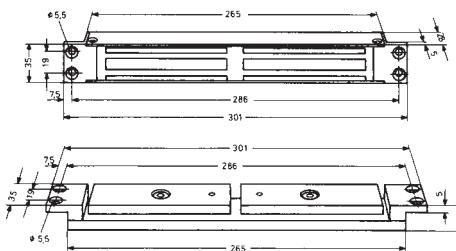
022283


Surface holding magnet model 827-44


Compact surface holding magnet without monitoring contacts with counter-holding plate in narrow device design for mounting in door frames, dimensionally stable aluminium housing for flush-mounting.

Technical Data

Rated voltage	12 V DC / 24 V DC
Current consumption	500 mA / 250 mA
Holding force	2,500 N
Dimensions (W x H x D)	301 x 35 x 20 mm
Colour	natural silver / anodised



022286


Compact surface holding magnet 827 surface-mounted


In surface-mounted housing by means of counter plate. Dimensionally stable design in surface-mounted sheet steel housing.

Technical Data

Rated voltage	24 V DC / 12 V DC
Current consumption	250 mA / 500 mA
Rated power	6 W
Duty cycle	100 % duty cycle
Holding force	2,500 N
Residual holding power	0 N
Dimensions (W x H x D)	301 x 43 x 52 mm

 Accessories

022278



Flashing lamp model 1055-24



Red flashing lamp for indoor and outdoor mounting including bracket for wall mounting.

Technical Data

Rated voltage	24 V DC
Alarm current	250 mA



094000



Transformer/rectifier 1002-241



For C bar mounting

Technical Data

Rated mains voltage	230 V AC
Output rated voltage	24 V DC / 24 V AC
Output rated current	1 A

094100



Transformer/rectifier 1001-121



For C bar mounting

Technical Data

Rated mains voltage	230 V AC
Output rated voltage	12 V DC / 12 V AC
Output rated current	1 A

094002



Emergency power supply 24 V DC



Compact emergency power supply with fully electronic, stabilised power supply/charger for redundancy standby operation in stable sheet steel housing, including accumulator(s) for surface mounting. The accumulators enclosed in the shipment are maintenance-free, closed accumulators containing a solid electrolyte. They are position-independent, have a long life span (approx. 4-5 years) and have high loading capacity.

Technical Data

Operating voltage	230 V DC
Rated operating voltage range	230 V +/- 10%
Power consumption	max. 62 VA, own 3.3 VA
Operating temperature	0 °C to +40 °C
Storage temperature	-20 °C to +50 °C
Max. continuous current	2 A
Accumulator charging	24 h
Accumulator capacity	2 accumulators 12 V / 2.6 Ah
Protection class according to DIN 40050	IP 20
Dimensions (W x H x D)	300 x 186 x 125 mm
Colour	white, similar to RAL 9002



022252



Replacement cover for escape door terminal



For compact escape door control terminals and operating elements, not suitable for terminals of the XT series.

022263



EMERGENCY OPEN plastic sign for escape door terminal

022264



Test badge for escape door terminal

Packaged individually.

022262



EMERGENCY BUTTON plastic sign, down arrow



022267



EMERGENCY BUTTON plastic sign, left arrow



022268

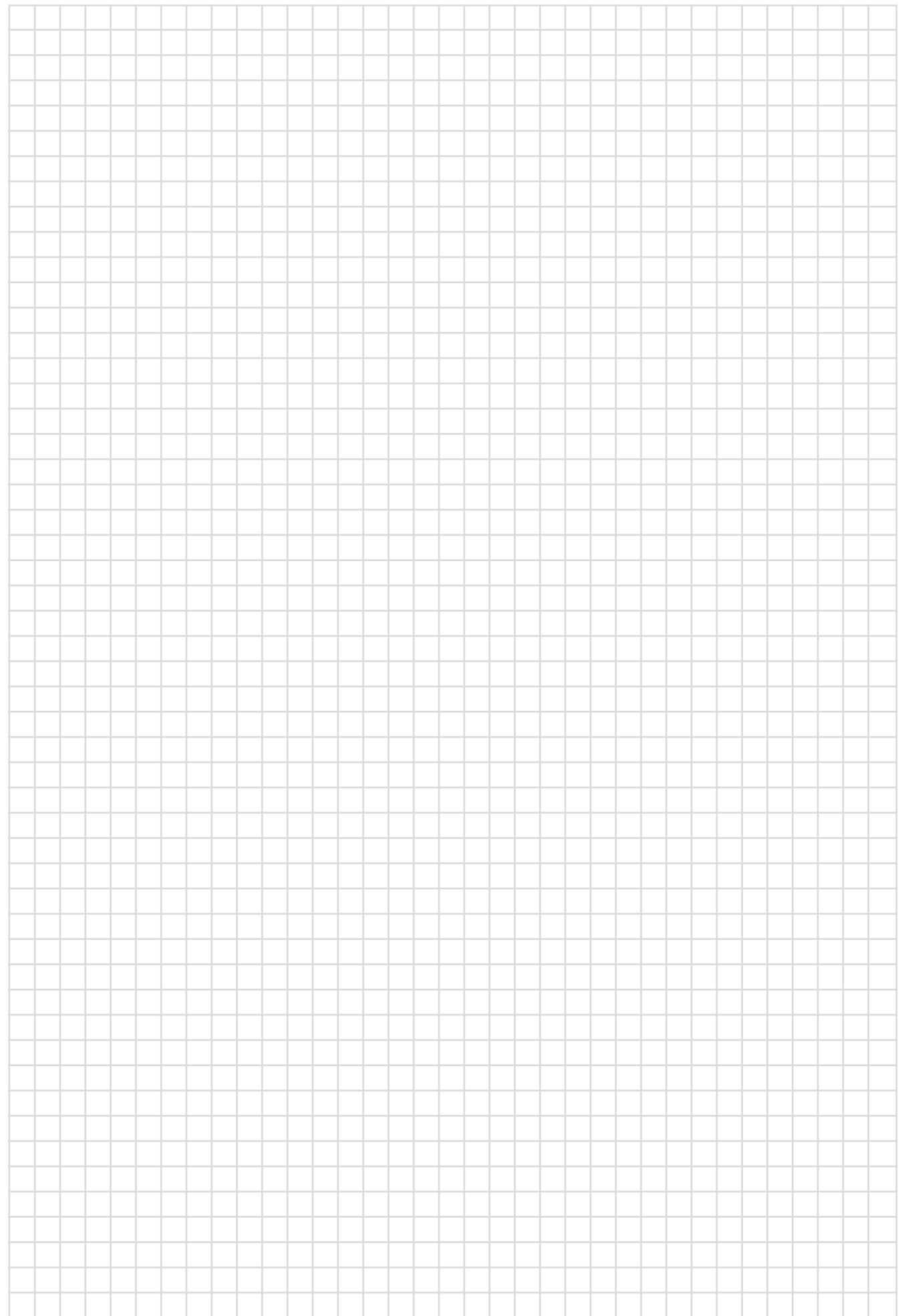


EMERGENCY BUTTON plastic sign, right arrow



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A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.

Fax Orginals for copying

Order Forms

Security Innendienst

Order Form

**Honeywell Security Deutschland
Novar GmbH
Johannes-Mauthe-Straße 14
72458 Albstadt**

Mon-Thu 7.30 am to 5.00 pm

VKI Security (Neuss):
Telephone +49 (0) 2137/17-60 75
Fax +49 (0) 2137/17-60 76

OEM Security (Albstadt):
Telephone +49 (0) 7431/801-1225
Fax +49 (0) 7431/801-1358

Order	
Customer Number (please always include when ordering or inquiring!)	
Order no.	
Commission	
Offer No.:	
Ordered by	
Delivery date	

Customer	
Postcode / City	
Delivery address, if different from above	
Postcode / City	

Date/Signature

To be filled in by Novar GmbH:
AB no.

The general sales and delivery conditions of the Novar GmbH shall apply

Repair Order Form
Product line ID/AC/T&A/RRT

**Fax Original
for copying**

Honeywell Security Deutschland
Novar GmbH
Reparaturabteilung
Johannes-Mauthe-Straße 14
72458 Albstadt

Mon-Thu 7.30 am to 4.30 pm
Fri 7.30 am to 2.30 pm
Manager Repairs:
Otto Trenker +49 (0) 7431/801-1424
Processing Repairs/Returns:
Jörg Schmid +49 (0) 7431/801-1879
Frank Jenter +49 (0) 7431/801-1877
Fax +49 (0) 7431/801-1466

- Repair order
 Return for replacement component
 Application for warranty settlement

Please check type of order.
For warranty orders, please enclose a copy of the delivery note.

Customer

Surname, First name
Company
Street House number
Postcode / City
Telephone
Fax
Delivery address
.....

Customer No.
Offer/Order No.
Commission
Date of delivery calendar week
Method of delivery
Date
Signature

Quantity	Article no.	Article designation

Fault Description

- | | |
|---|---|
| <input type="checkbox"/> Overvoltage damage | <input type="checkbox"/> Transmission error |
| <input type="checkbox"/> Constant error | <input type="checkbox"/> Drive |
| <input type="checkbox"/> Periodic error | <input type="checkbox"/> Language synthesis |
| <input type="checkbox"/> Thermal problem | <input type="checkbox"/> Mechanics |
| <input type="checkbox"/> Power supply | <input type="checkbox"/> For inspection |
|
<input type="checkbox"/> Other | |

AB No.
(To be filled in by Novar GmbH)

Order Forms WINMAG / WINMAG Lite

Honeywell Security Deutschland
Novar GmbH
Johannes-Mauthe-Straße 14
72458 Albstadt

Novar GmbH
Dieselstraße 2
41469 Neuss

VKI Security (Neuss):
Phone +49 (0) 2137/17-60 75
Fax +49 (0) 2137/17-60 76

OEM Security (Albstadt):
Phone +49 (0) 74 31/ 801-12 25
Fax +49 (0) 74 31/ 801-13 58

1. Licensing data

To register this data, please complete the form below.

End customer data:	(must be filled in: 8 characters min., 45 max.)	Example:
Name:		Novar GmbH
Street:		Johannes-Mauthe-Straße 14
Postcode/City:		D-72458 Albstadt
Object:		Security Control Centre

Installer data:	(must be filled in: 3 characters min., 45 max.)	Example:
Name:		Mustermann GmbH
Street:		Musterstraße 179
Postcode/City:		D-12345 Musterstadt
Contact person:		Hans Mustermann
Optional entries:	(12 characters max.)	
Telephone:		+49 (0) 7431/801-1567
Fax:		+49 (0) 7431/801-1321
E-mail:	(45 characters max.)	h.muster@t-online.com

2. Order type

One of the order types listed below must be selected.

2.1 WINMAG control centre software standard package (check additional options on page 2)

- x 013630 WINMAG standard package (parallel interface)
- x 013631 WINMAG standard package (USB interface)
- 1 x 013635 WINMAG Lite
- 1 x 013590 Gateway incl. OPC-Server und USB-Dongle

2.2 WINMAG later option extension (check options on page 2)

- 1 x 1 x 013609 later option extension from V6.0

Update-Nr.:

2.3 WINMAG Upgrade

- 1 x 013620 Upgrade einer GEMAG – Installation (MS-DOS) auf WINMAG
or
- 1 x 013620 Upgrade of a GEMAG installation (MS-DOS) to WINMAG
 - for USB interface
 - for parallel interface

Entering the licence number is mandatory.

Update-Nr.:

- 1 x 013636 Winmag Lite upgrade to Winmag full version

Update-Nr.:

AB No.

Order form WINMAG / WINMAG Lite

3. Options (for each computer to be connected a standard licence is required)

Article No.	Description	Multistation / Distributed PCs					
		Computer 1	Computer 2	Computer 3	Computer 4	Computer 5	Computer 6
	Computer designation/Interface						
013601	Intrusion detection licence						
013602	Fire detection licence						
013603	Access control licence						
013604	Video licence						
013605	Escape route technology licence						
013606	Connection Server						
013608	WINMAG Remote Data Transmission licence						
013611	OPC Server licence						
013612	OPC Client licence						
013613	Notification licence						
013623	DEZ 9000 licence						
013624	Redundancy licence						
013625	WINMAG Client ¹⁾ licence						
013627	BACnet Server licence						
013650	Escalation licence						
013651	DTMF control option licence						
013652	WINMAG Client Processing Ability licence						
013660	WEBX licence						
	Update number (for WINMAG update smaller than V6) ²⁾						

1) Number of PCs to which network data are transmitted

2) The update number can be seen from the Info dialog window or, from version 8, from the Lizenzinfo.txt text file

AB No.
(To be filled in by Novar GmbH)

Order Form WINFEM-User

Fax Original
for copying

**Honeywell Security Deutschland
Novar GmbH
Johannes-Mauthe-Straße 14
72458 Albstadt**

**Novar GmbH
Dieselstraße 2
41469 Neuss**

VVKI Security (Neuss):
Phone +49 (0) 2137/17-60 75
Fax +49 (0) 2137/17-60 76

OEM Security (Albstadt):
Phone +49 (0) 74 31/ 801-12 25
Fax +49 (0) 74 31/ 801-13 58

1. Licensing data

To register this data, please complete the form below.

End customer data: (must be filled in: 8 characters min., 45 max.)		Example:
Name:	Novar GmbH	
Street:	Johannes-Mauthe-Str. 14	
Postcode/City:	D-72458 Albstadt	
Object:	Main Building	

Installer data: (must be filled in: 3 characters min., 45 max.)		Example:
Name:	Mustermann GmbH	
Street:	Musterstraße 179	
Postcode/City:	D-12345 Musterstadt	
Contact:	Hans Mustermann	
Optional entries: (12 characters max.)		
Phone:	+ 49 (0) 7431/801-15 67	
Fax:	+ 49 (0) 7431/801-13 21	
E-Mail: (max. 45 characters)	h.muster@t-online.com	

For any queries, please contact your local sales representative. · E-Mail: info.security.de@honeywell.com

Appendix

Services

Customer Service

List of Article Numbers

Index

General Terms of Sale and Delivery

Customer Service Centre Application Technology

To assist you in troubleshooting and repair, our service team can be contacted daily during the following office hours:

Mon - Thu	7:30 am to 5:00 pm
Fri	7:30 am to 3:00 pm

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:

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

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.

Training offers

For assistance and further education, we offer an extensive training program.

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I.

1. Scope

1.1 The following General Terms of Sale and Delivery apply for all goods and services of the Seller.

1.2 Conditions of the Purchaser that deviate from these are not binding for the Seller. They are valid only with the explicit written approval of the Seller. The Terms of Sale also apply when the goods are provided unreservedly to the customer in the knowledge that there are conditions of the Purchaser that oppose or deviate from these Terms of Sale.

1.3 The Terms of Sale apply only vis-à-vis companies, legal entities under public law or special assets under public law.

2. Conclusion of Contract

2.1 The offers of the Seller are subject to change until they are accepted by the Purchaser. Information in offers and in attached drawings and illustrations about the goods, their measurements and weights are only approximate unless they are expressly referred to as binding.

2.2 Content and scope of the agreements comply with the Seller's written order confirmation. Verbal sideletters made at the conclusion of the Contract are only binding for the Seller if the Seller explicitly confirms this in writing.

2.3 The Seller reserves the right to make technical changes to construction, form and material, even during the delivery time, providing these changes are acceptable for the Purchaser.

3. Delivery, delivery time, delay

3.1 Unless otherwise stipulated, delivery is ex factory at the cost and risk of the Purchaser. Benefit and risk are transferred to the Purchaser at the latest when the goods leave the factory or warehouse of the Seller. The prices given by the Seller are ex factory and exclude packaging.

3.2 The Seller is entitled to make partial deliveries as long as these are acceptable for the Purchaser. Such partial payments may be invoiced separately.

3.3 The adherence to agreed deadlines or dates for deliveries necessitates the timely receipt of all documents to be provided by the Purchaser, necessary authorisations and approvals, in particular of plans, the provision of all necessary information, as well as the adherence to agreed payment conditions and other obligations by the Purchaser. If these requirements are not fulfilled in a timely manner, the deadlines will be extended appropriately. This does not apply if the Seller is responsible for the delay.

3.4 The Seller may also demand an appropriate extension of the delivery deadline in the event of subsequent changes to the Contract at the request of the Purchaser.

3.5 If the non-adherence to the delivery deadline is attributable to force majeure or other unforeseeable conditions or conditions that neither party is responsible for - e.g. operational disruptions, strike, lock-out, insufficient transportational resources, official intervention, difficulties in material procurement or energy provision, even if they occur with preceding suppliers, the delivery deadline is extended appropriately. If, as the result of the circumstances named, the goods or services become impossible or unacceptable, the Seller is released from his obligation to deliver, even when the circumstances occur during an already existing delay. The Seller will inform the Purchaser of the beginning and end of such hindrances immediately.

3.6 If the Seller is in arrears with delivery, the Purchaser may only withdraw from the Contract and demand compensation for non-fulfilment if the Purchaser gives the Seller an extension period of at least 20 working days and when this period has passed to no avail. The extension period is to be combined with the declaration that the Purchaser may refuse the acceptance of the delivery when the period has passed to no avail. The setting of an extension period under threat of refusal is not necessary if the Seller has seriously and definitively refused the goods previously. If a hindrance to delivery lasts longer than three months or if the delivery becomes impossible due to an event of a type named under Section 3.5, each contractual party is entitled to withdraw from the Contract.

3.7 Claims for compensation on the part of the Purchaser due to delayed delivery are excluded except in cases of wilful conduct and gross negligence by the legal representatives or vicarious agents of the Seller.

3.8 The Seller reserves the right to determine the form of shipment and shipment route at his own discretion. Packaging and transport will be charged to the Purchaser at the most favourable price that the Seller is able to obtain. If the shipment is delayed at the request of or through the fault of the Purchaser, the goods will be stored at the expense and risk of the Purchaser. In this case, risk is transferred to the Purchaser when readiness for shipment is notified to the Purchaser.

4. Conditions of payment

4.1 A 2% discount will be granted on invoices that are paid within 30 days of the invoice date. The decisive date for adhering to this deadline is the receipt of the invoice amount by the Seller, in other words the value date. A discount will only be given if the Purchaser is not in arrears with the payment of invoices.

4.2 With services that have a delivery time of more than six months from conclusion of the Contract, the Seller reserves the right to agree a special payment plan.

4.3 Cheques and/or bills of exchange will only be accepted for the sake of payment and in accordance with a special written agreement. They are deemed as payment only when they have been cashed. Discount charges and other charges for bill of exchanges as well as costs for collection are for the account of the Purchaser.

4.4 If the Purchaser is in arrears with a payment that is due or if the Seller becomes aware of circumstances after the conclusion of the Contract that are suited to lessening the creditworthiness of the Purchaser and the adherence to his payment obligations, the Seller

may demand advance payment or the provision of securities for deliveries still outstanding and if these are not given within an appropriate period of extension to withdraw from the contract or demand compensation for non-fulfilment.

4.5 The Purchaser may only offset payment claims of the Seller against undisputed or legally ascertained counter-claims or those that are ready for decision that are based on the same contractual relationship. Offsetting by the Seller is possible without restrictions.

5. Retention of title

5.1 The Seller reserves his ownership, copyright and all utilisation rights to the illustrations, drawings, catalogues, prospectuses and other documents provided by him without reservation. All documents may not be made available to third parties without the express permission of the Seller and are to be returned to the Seller immediately at the Seller's request if the Contract is not awarded.

5.2 The objects of the delivery (goods subject to retention of title) remain the property of the Seller until all claims of the Seller vis-à-vis the Purchaser arising from the contractual relationship including sub-claims and claims for compensation, including those arising from the encashment of cheques and bills of exchange, have been fulfilled.

5.3 In the event that the Purchaser is in arrears with payments or if there is an application to open insolvency proceedings over the Purchaser's assets, or there is a transfer of the contingency right to third parties, or if there is a transfer of the business operations to third parties, the Seller is entitled to take back the goods that are subject to retention of title and for this purpose to enter the business premises of the Purchaser. Taking back goods that are subject to retention of title by the Seller does not mean that the Seller is withdrawing from the Contract unless the Seller expressly declares this in writing. The Purchaser is obliged to hand over the goods. When the Seller has taken back the goods that are subject to retention of title, the Seller is authorised to make free use of them. The proceeds from the utilisation are to be offset against the liability of the Purchaser minus appropriate utilisation costs.

5.4 Any processing or modification of the goods that are subject to retention of title and their combination with other objects shall be done by the Purchaser for the Seller. If the goods that are subject to retention of title are combined with other goods that are owned by third parties during this processing or modification, the Seller acquires co-ownership of the new object in the ratio of the purchasing prices agreed between the parties to the corresponding purchasing price for the other goods. If the goods that are subject to retention of title are combined with real estate or movable goods by the Purchaser, the Purchaser also cedes to the Seller his claim for remuneration for the combination, with all ancillary rights as security amounting to the ratio of the value of the combined goods subject to retention of title to the remaining combined goods at the time of the combination.

5.5 The Purchaser is entitled to resell the goods that are subject to retention of title in a ordinary business transaction. The claims of the Purchaser arising from the resale of the goods subject to retention of title are already ceded at this point to the Seller to the amount of the value of the goods subject to retention of title with all ancillary rights. The Purchaser is entitled to collect the ceded claims as long as he fulfils his payment obligations. If the Purchaser is in arrears with payment, the Seller is entitled to revoke the autorisation for collection. In this case, the Purchaser is obliged at the request of the Seller to provide him with all information necessary for the collection, to permit him to have the portfolio of ceded claims checked by his agent by means of his accounting, and to inform the debtors of the cession of the claim.

5.6 During the existence of the retention of title, the Purchaser is forbidden from pledging or transferring the goods by way of security. The Purchaser is obliged to notify the Seller immediately of pledges, confiscations or other dispositions or interventions by third parties in the goods that are subject to retention of title or claims that have been ceded beforehand. The Purchaser is not permitted to make agreements with his contractual partners, in particular creditors or customers, which may restrict the rights of the Seller from the aforementioned agreed retention of title.

5.7 The Seller is obliged to submit all the legally necessary declarations at the place of destination for the effectiveness of the retention of title and to provide the necessary documents.

5.8 The Seller is obliged to release the securities owing to him through the retention of title at the request of the Purchaser in so far as the realisable value of the claims to be secured exceed 15%. The Purchaser will be informed in writing that the securities have been released. The selection of the security to be released is the responsibility of the Seller.

6. Guarantee claims / guarantee liability

6.1 The Purchaser is to examine the goods received immediately on arrival for defects, condition and guaranteed features. Obvious defects are to be reported to the Seller within 10 working days after receipt of the delivery, hidden defects within 10 working days after discovery through written notification. Otherwise, the delivery is deemed approved.

6.2 At the request of the Seller, the Purchase will send back the disputed goods to the Seller free of freight charges. If the defect proves to be justified in such a case, the Seller shall bear the costs of returning the goods by means that incur the lowest possible freight costs.

6.3 The Purchaser is to give the Seller sufficient opportunity to verify the complaint, in particular to provide damaged goods and their packaging to the Seller for inspection. If the Purchaser refuses to do this, the Seller is freed of any liability for defects. If it is urgently necessary in cases where operational security is under threat or to avert unproportionally great damage, the Purchaser is entitled to correct the defect himself or have this done by third parties and to demand from the Seller compensation for the costs required. The same applies in the event that the Seller is in arrears with the correction of the defect. In any case, the Seller is to be notified immediately by the Purchaser.

6.4 The Seller is not liable as the result of public statements in his advertising or the advertising of another manufacturer of the supplied goods or the agents thereof, if and in so far as the Purchaser cannot prove that the advertising statements have influenced his purchasing decision, if the Seller did not know the statements and did not have to know them or the statements had been already been corrected at the time of the purchasing decision.

6.5 If there is a defect in a device that is not older than four weeks and if this defect is notified within the first four weeks after delivery, a new device will be supplied. Furthermore, the Seller's guarantee is restricted to improving free of charge at his own discretion or replacing with new parts (replacement delivery) all parts that are proven to have become unusable or were restricted significantly in their usability as the result of a circumstance before the transfer of risk as the result of defective construction, material feature or design within one year of the delivery date. If there is a defect in the software, the guarantee is restricted to remedying the defect. If the rectification of the defect is unsuccessful, the Purchaser has the right to withdraw from the Contract. The replaced goods are to be sent back to the Seller within a period of 4 weeks. The Purchaser is to grant the Seller a reasonable period to rectify the defect or deliver a replacement. If the Purchaser refuses to do this, the Seller is freed of any liability for defects. If a rectification of the defect or a replacement delivery is not possible or if this takes longer than a reasonable period of time or is unsuccessful due to other reasons for which the Seller is responsible, the Purchaser may at his discretion either withdraw from the Contract or reduce the purchase price. If the complaint by the Purchaser is justified, the costs that exceed the costs of the replacement part including shipment and the reasonable costs of removing and installing the part, are to be borne by the Purchaser himself. The Seller does not provide any guarantee for damage or defects in the goods that arise from normal wear and tear, defective or careless handling or assembly, excessive use or improper modification or subsequent correction by the Purchaser or a third party. Furthermore, no guarantee will be assumed for damage to the device as a result of lightning, fire, water, smoke, defects due to contamination of detectors or defects due to maintenance not being carried out. Increased expense for post-fulfilment arising from the fact that goods supplied that are moved after delivery to a place other than the Purchaser's subsidiary will be borne by the Purchaser.

6.6 Claims of the Purchaser, that exceed the above, in particular for compensation instead of service and replacement or another direct or indirect damage are excluded. This does not apply if a legal or material defect has been maliciously concealed or if a durability guarantee has been assumed, if the representatives or vicarious agents of the Seller are guilty of wilful conduct or gross negligence, if there is liability in accordance with the Product Liability Act, if the defect or damage is based on a breach of guarantee or if the Seller is liable due to a breach of a major contractual obligation.

6.7 The Seller grants a durability guarantee of 24 months from delivery of the goods to the Purchaser. This claim lapses if it is not notified to the Seller at the latest 10 working days after discovery of the defect. A guarantee liability for software defects is excluded. The guarantee from delivery of spare parts to the Purchaser is limited to 12 months.

6.8 All defect claims of the Purchaser expire one year after delivery of the goods to the Purchaser. For replacement parts and improvement, the limitation period is 12 months; however, it runs at least until the expiry of the original limitation period for the object supplied.

7. Taking back goods, unjustified taking back, returns

7.1 The taking back of custom-made products, painted parts or those that cannot be reused is excluded.

7.2 If the Purchaser withdraws from the Contract and is unjustified in doing so, or if the Purchaser refuses to accept the delivery and is unjustified in doing so, the Seller is entitled to demand 15% of the agreed price as compensation for non-fulfilment without particular proof. It is open to the Purchaser to prove that the Seller has suffered no or less damage.

7.3 Returns of goods are only accepted up to 5% of the order value once or only in their original packed and sealed condition within six months after shipment. Custom-made products, however, shall not be taken back. The return of these goods shall be done at the expense and risk of the Purchaser. In the case of accepted returns, the purchase price shall be repaid with a deduction of 15% for processing, testing, administration and other overheads; claims for defects on the part of the Purchaser are unaffected by this No. 7.3.

8. Final provisions

8.1 For all legal relationships between the parties that arise from or in the context of this Contract, the law of the Federal Republic of Germany is exclusively valid. The application of the UN Convention on Contracts for the International Sale of Goods is excluded.

8.2 The respective valid foreign trade provisions of the Federal Republic of Germany and the United States of America, in so far as they are applicable, determine the content of the mutual rights and obligations from the Contract with regard to export, re-export and resale. In any case, a contractual obligation of the Seller only arises when the corresponding authorisations regarding the final destination of the goods have been granted by the responsible authorities. The Purchaser undertakes to provide any information needed for these approvals and to procure the necessary documents for the approval procedure at his own costs.

8.3 The place of fulfilment for all deliveries, services and payments as well as the place of jurisdiction for all legal disputes, including for lawsuits involving cheques and bills of exchange, is the registered office of the Seller, in so far as the Purchaser is a merchant, legal entity under public law or a special asset under public law.

8.4 If a provision of these General Terms of Sale and Delivery should be or become invalid, this does not affect the validity of the remaining provisions.

II.	
Additional conditions for the licensing of software	
1. Scope	
1.1 The subject of the following provisions ("Additional Provisions for the Licensing of Software") is the licensing of computer programs, appropriate user documentation in electronic and printed form (user handbook) and other appropriate written materials, hereinafter referred to overall as "Software". The software may be stored on a device or another separate data storage medium or in a non-physical form.	
1.2 As a supplement to these Provisions, the "General Terms of Sale and Delivery" of Novar GmbH apply, even if these are not explicitly referred to.	
2. Usage rights	
2.1 The Seller grants the Purchaser the following non-exclusive rights for usage of the permanently licensed software. In accordance with No. 6 of these Provisions, these rights are transferable and not restricted temporally or geographically.	
2.1.1 Right to use the software in the manner and to the extent described in the handbook and/or functional description;	
2.1.2 Right to copy, process and back-translate the licensed program code into other forms of code (decompilation) of the software.	
2.2 There are no time restrictions to the aforementioned rights.	
2.3 The aforementioned rights are exclusively for the Purchaser and not for third parties. Third parties in this sense are also associated companies of the Purchaser.	
2.4 The duplication right given to the Purchaser in accordance with No 2.1.2 is limited to duplications on the computer systems in his direct possession and to duplications that require the loading, display, running, transfer or storage of the software; this restriction does not apply to the right named in § 69 d Para. 2 Copyright Act (UrhG) for the creation of a back-up copy by a person authorised to use the computer program. The back-up copy of the licensed program is to be labelled as such. Duplication of the handbook or functional description is not permitted.	
2.5 The right to process the software that is given to the Purchaser in accordance with No. 2.1.2 is limited to the maintenance or restoration of the contractually agreed functionality of the software.	
2.6 The right to decompile the software granted to the Purchaser in accordance with No. 2.1.2 is only granted under the conditions of § 69 e Para. 1 No. 1 - 3 Copyright Act (UrhG) and in the restrictions of § 69 e Para. 2 No. 1 - 3 Copyright Act (UrhG). The interface information required for the purpose of establishing the interoperability of an independently created computer program can be requested from the Seller in return for the reimbursement of a contribution to the costs.	
2.7 More extensive rights to use and exploit the software are not granted to the Purchaser.	
2.8 The Seller is not obliged to license the source code, including the relevant development documentation.	
3. Multi-use and network use	
3.1 The Purchaser may use the software on hardware that is available to him and which is suitable for using the software. However, if the Purchaser changes the hardware, he must delete the software from the mass memory of the hardware used up until that point. Storing or keeping software ready or using it on more than one hardware is not permitted.	
3.2 The use of the licensed software within a network or any other multi-station computer system is not permitted, in so far as this would create the possibility of multi-use of the program at the same time	
4. Decompilation and program changes	
4.1 A decompilation that exceeds those described under No. 2 as well as other kinds of back-development of the various manufacturer levels of the software are not permitted.	
4.2 As a basic principle, the removal of copy protection or similar protection routines, such as a dongle query routine, is not permitted. Only in so far as the smooth use of the program is hindered or prevented by this protective mechanism and the Seller, despite a corresponding request to solve the problem, has not done so within an appropriate period of time, may the Purchaser remove the copy protection and/or the protective routine. The Purchaser bears the burden of proof for the hindrance or prevention of smooth usability by the protective mechanism.	
4.3 Changes other than those regulated in No. 4.2, in particular those for the purpose of correcting other errors or enhancing the functional scope, are only permitted if the changed program is solely within the scope of own use.	
4.4 The actions mentioned in No. 4.3 may only be licensed to commercially active third parties that may have a potential competitive relationship with the Seller if the Seller does not want to undertake the desired changes to the program in return for appropriate remuneration. The Seller is to be given an appropriate period of time to check whether he wishes to take on the Contract.	
4.5 Copyright notes, serial numbers or other features serving to identify the program may not be removed or changed by the Purchaser.	
5. Rights to the software in the event of changes or combination	
The Seller remains the owner of all rights to the software, even if the Purchaser changes the software or combines it with his own programs or those of a third party.	
6. Permanent transfer and temporary leasing of the software	
6.1 The Purchaser may transfer the software that has been permanently licensed to the Seller to third parties permanently if the third party acquiring the software declares its agreement to abide by all of the provisions agreed between the Seller and the Purchaser before the transfer takes place. In the event of the transfer, the Purchaser must hand over all program copies, including back-up copies to the third party acquiring the software and destroy any copies that are not handed over. As a consequence of the transfer, the Purchaser's right to use the software lapses. The Purchaser is to inform the Seller of the transfer, indicating the name and complete address of the party acquiring the software.	
6.2 A commercial leasing of the software is not permissible. A gratuitous licensing of the software licensed permanently to the Purchaser is permissible if the third party declares in writing its agreement to abide by all the provisions agreed between the Seller and the Purchaser before the transfer and that all program copies including all back-up copies are handed over to the third party. For the period that the software is licensed to the third party, the Purchaser is not entitled to use the software.	
6.3 The software may not be licensed to third parties if there are substantial grounds to believe that the third party may not adhere to all the provisions agreed between the Seller and the Purchaser.	
7. Changes and updates	
The Seller is entitled to change and update the software at his own discretion. The licensing of software updates to the Purchase is the subject of a special agreement concerning software maintenance.	
8. Special software	
Unless otherwise agreed, special software is created on the basis of the current software version. Special software is generally excluded from the maintenance and further development by the Seller.	
9. Retention of title	
9.1 The software remains the property of the Seller until all claims of the Seller vis-à-vis the Purchaser from the business relationship have been fulfilled. When retention of title has been asserted by the Seller, the Purchaser's right to use the software further lapses. All program copies created by the User must be deleted.	
9.2 As a supplement, the provisions of No. 5 of the General Terms of Sale and Delivery apply.	
10. Warranty claims	
10.1 Within the scope of the material defects warranty, the Seller vouches for the software fulfilling the functions named in the program description, corresponding to the recognised rules of technology and not having any defects that nullify or reduce in more than just an insubstantial way the value or aptitude for the usual purpose or that assumed under this Contract.	
10.2 The liability for loss of data is restricted to the typical effort required to restore the data that would have been incurred if back-up copies had been made regularly and appropriate to the risks.	
10.3 As a supplement, the provisions in No. 6 of the General Terms of Sale and Delivery apply.	
11. Delivery	
The Purchaser will be handed the necessary number of duplication units of the software in machine-readable form, stored either on data media that correspond to state-of-the-art technology and which can be read on the Purchaser's computer systems or transmitted via remote data transfer, according to the Purchaser's preference. One copy of the user documentation and other material will be supplied in electronic or written form, according to the Seller's preference.	
12. Procedures at the end of the Contract	
At the end of the Contract, the Purchaser undertakes to delete all duplication units of software in the Purchaser's possession and to return the documentation and other documents.	



A large, empty grid area consisting of approximately 20 columns and 25 rows of small squares, intended for handwritten notes.

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