



CATALOGUE

benvenuti nella nuova dimensione della Sicurezza
welcome to the new dimension of Security

Ksenia
security innovation

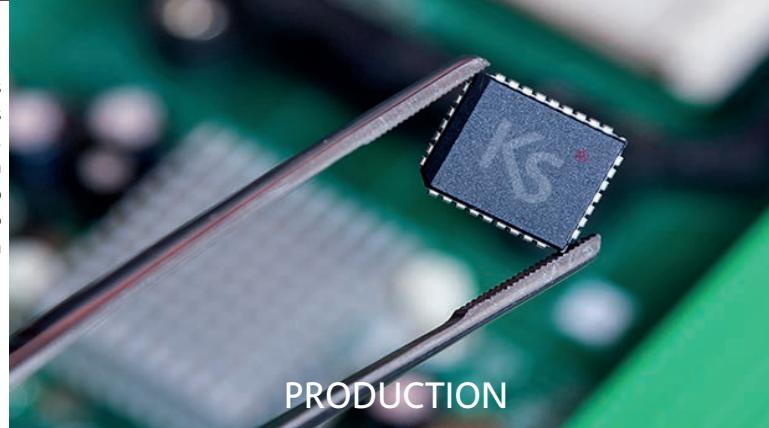
The new dimension of Security



RESEARCH AND DEVELOPMENT

Iares 4.0 is the Hybrid IoT platform designed by Ksenia Security that fits perfectly to any type of installation. It represents the top expression in terms of Power, Integration and Connectivity, thanks to the innovative components, the highest degree of Reliability and Quality certified EN50131. The platform Iares 4.0 is equipped with IP/Ethernet connectivity supported by a 3G Back-up and it can be configured from remote, by connecting to the Ksenia SecureWeb cloud. There are six versions, wired and Wireless, and a Full Wireless version with Iares 4.0 wls 96.

In the digitization era the technology offered by Ksenia Security plays a key role in terms of the Security (Intrusion, Access Control and Video Surveillance) and Home & Building Automation. A reality appreciated both in Europe and worldwide, with a wide range of unique products able to fully convey Italian Quality. A constant research to satisfy the needs of the Professional Installers as well as the End- Users, through choices embracing environmental sustainability.



PRODUCTION



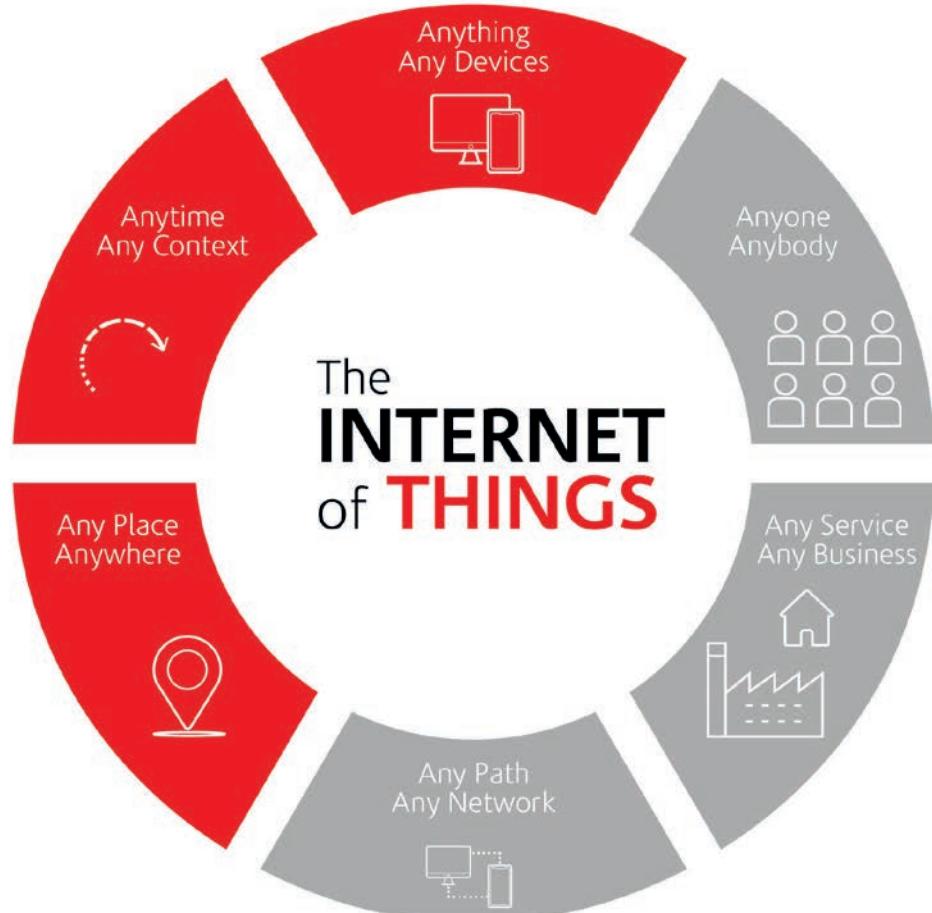
SALE

Installers and Users of Ksenia Security can use the most advanced Speech Technologies, being able to choose between 38 different languages, both for voice mail and for customized voice messages. This thanks to the partnership with Loquendo (a Brand of Nuance Communication).



Ksenia Security is a technological leader for IoT Security Solutions and Home & Building Automation. Thanks to the various Apps, based on

Ksenia SecureWeb, besides the complete management of the system, it is now possible to program and centralize from mobile the various installations.



Design

02



Ksenia Security pays special attention to product design. Through care for details, we choose a simple and minimalist profile, able to merge with any environment. At the same time, we don't neglect the functionality, offering accessible and intuitive solutions with advanced products representing a concentrated blend of simplicity, innovation and beauty.

Innovation

Our mission is to create reliable products with great technological innovation. How do we do it? Listening to the needs of the market. Thanks to our R&D team, we commit to respond effectively to nowadays needs, focusing on originality and User-friendliness. This attitude is also expressed by our APP for Users and Installers which allow remote management and configuration, through an extremely intuitive interface and a surprising graphic customization.



Made in Italy

Ksenia Security is deeply linked to Italian traditions and history. For this reason, we have decided to give latin names to our products. For us this is synonymous of recognition and affiliation. All our development, from design to final realization, takes place in Italy.



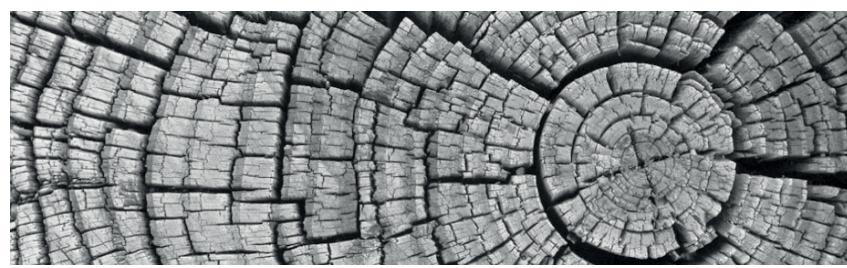
03

Eco-sustainability



Innovation and environmental respect: a winning combination. The new headquarters of Ksenia Security is a technological reality with low environmental impact which produces renewable energy, independently, thanks to the photovoltaic system installed on the roof, contributing to a sustainable development consistent with one of our most important values: environmental sustainability. We have deep respect for human and workers' rights. We carefully evaluate each of our choices, from suppliers to the materials used, in order to reduce our impact on the environment.

we care



ALWAYS CONNECTED.



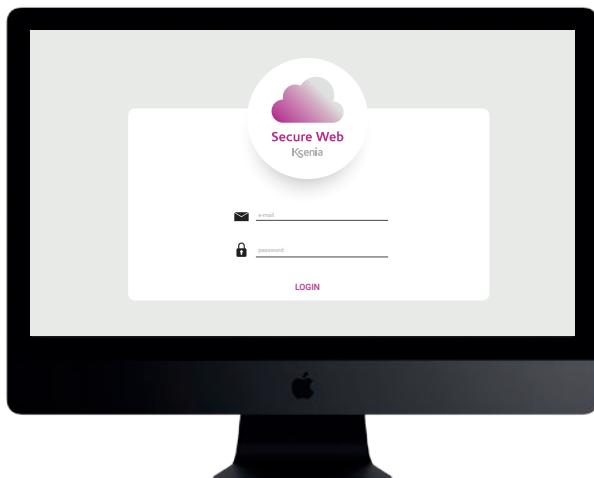
Ksenia
security innovation

www.kseniasecurity.com

Index

Tools for Installers	6
Hybrid IoT Control Panels for Security and Home & Building Automation lares 4.0 and lares 4.0 wls 96	10
Communication Systems for lares 4.0	27
Wireless Technology	37
User interfaces	55
BUS Peripherals	65
BUS Peripherals for Smart Home	73
Indoor and Outdoor Sirens	81
Motion Detectors	89
External and Perimetral Protections	95
Universal Communication Systems	101
Video-Surveillance and Video-Analysis Systems	107

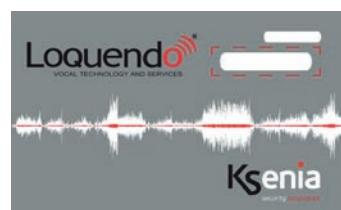
Ksenia SecureWeb: new interface, new functions, new world



The technological evolution of Ksenia Security is always in continuous expansion. Ksenia SecureWeb platform is the proof, characterized by a strong innovative implementation, thanks to the latest improvements made. SecureWeb, the secure Cloud that allows the development of complex applications, has taken a leap forward that by far anticipates the near

future, gaining a leading position in the world of Business Intelligence. Its graphic interface has been improved, simplifying the organization of the data, through an unprecedented dynamism; greater fluidity has been conferred to the Installer dashboard and the speed of unloading has increased significantly. It offers to Installer valuable tools to have full control of your profile, accessing the certification

level with simplicity and transparency. It guarantees the highest level of Security and respect for Privacy in terms of accessibility, network encryption and DRP (Disaster Recovery Plan). Therefore, Ksenia SecureWeb is able to make the best use of all the resources to realize really competitive strategies, offering processing power, data base storage, orderly distribution of contents and all the other features that support the sizing and growth of different needs, both for the End User and for the Installer.



Thanks to Loquendo scratch card (p/n KS17800011.000) and using Ksenia Pro it is possible to generate voice messages with text-to-speech (TTS) synthesis, in the chosen voice and language, without the need to be in the system, like the license provided on a USB key requires instead.

Ksenia Pro App: only for Professional Installer



The IoT (Internet-of-Things) Platforms represent a significant advancement in their Value Proposition also thanks to the Ksenia SecureWeb. Ksenia SecureWeb, in fact, offers to the Installer a single dedicated APP named KSENIA PRO, which allows the Control Panel Configuration from any mobile terminal, smart-phone included, simply by scanning the Control Panel QR-code and the registration with geolocation.

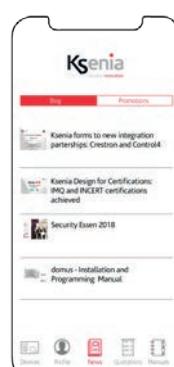
Furthermore, with this fantastic Tool, the Installer has the possibility to receive all the Technical Release, Marketing News, Reserved Commercial information and any variation applied to the Installer Manuals.

07

Ksenia Pro APP



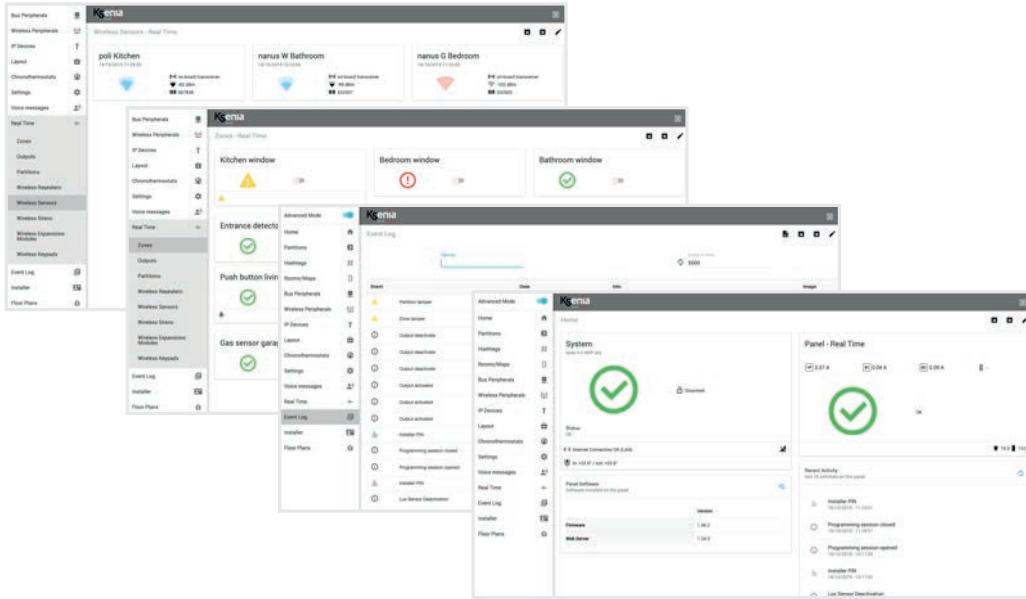
[Download on the App Store](#) [Available on Google play](#)



Installer Webserver

08

WEB SERVER



With the lares 4.0 platform, Ksenia has revolutionized the way of programming and maintaining the Security and Home & Building Automation systems.

In fact, for these operations it is no longer necessary to use a software installed on the installer's PC, but it is sufficient to connect to the control panel's web server, which contains the programming interface. This operation is made even simpler and faster thanks to the use of the Ksenia Secureweb platform that allows you to reach the control panel, even remotely, via a cloud based on AWS with the most advanced data encryption systems.

The installer has several ways to connect with lares 4.0 systems:

- **In local connection**

Via any web browser, simply by entering the local IP address of the lares 4.0 control panel.

- **APP "Ksenia Pro"**

By downloading the dedicated APP for Security installers for free and scanning the control panel's QR code.

- **Ksenia Secureweb**

Through any browser, by accessing the page www.kseniasecureweb.com

The configuration interface is modern, intuitive and extremely fast. It allows to reduce connection times and eliminates the possibility of making errors due to data synchronization failure, since, following the connection, the real system configuration will be shown directly without any need to explicitly download data before making changes. Simultaneous access by several technicians is also allowed to check the configuration, the status of the system and the possible presence of faults.

The increase in speed is a visible plus even after sending a new configuration that no longer requires a system restart and thus avoids long waiting times and the annoying reset of the active outputs during this operation.

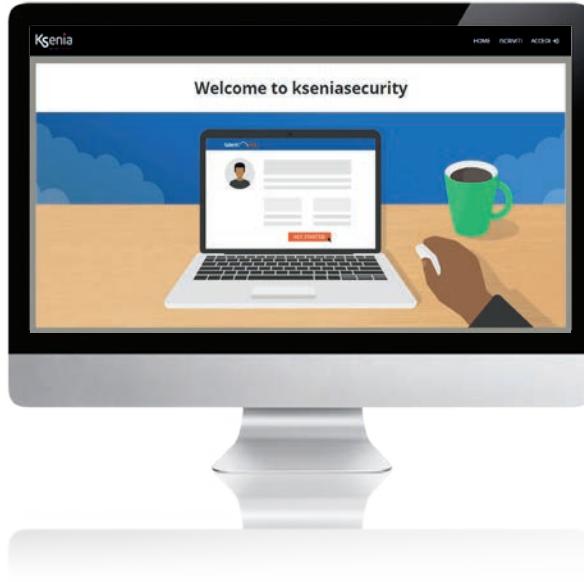
A further and fundamental aspect to consider is its universality. The user interface and the installer interface that are used to manage and program this new generation of control panels are always the same, for systems ranging from residential to small, medium and large industrial, and for wired, wireless or hybrids.

It is constantly enriched and simplified to provide a faster and more complete user experience through semi-automatic updates managed independently by the lares 4.0.

Finally, the very simple adaptation to the various languages by the whole system should be emphasized.

The control panel language is quickly set by the installer during the start-up phase of the control panel, while the user APP and installer interface languages automatically adapt to the language used by the smartphone and the web browser.

Talent LMS: for Ksenia Professional Installers



Selected
Installer



Silver
Installer



Gold
Installer



Specialist
Installer

Technical Training plays a key role on the basis of Ksenia Security solutions; suffice to say that, just in 2018, we held 111 training courses, reserved to Professional Security Installers and our Distributors Technical and Sales staff, in Italy and abroad.

For this reason, we wanted to grow and make this service even more widespread and useful, by introducing a new e-learning system that will complete the training activity that we have been carrying out and will continue to perform.

Thus, we launched a new platform called LMS (Learning Management System) available on <http://kseniasecurity.talentlms.com> link, allowing registered Installers, to access several educational contents regarding the most technical aspects of our products, especially related to the Lares 4.0 system.

The Ksenia Security Installer Certification Program also reports updates, evolving on the same platform.

In fact, upon completion of specific modules, Ksenia installers can have an online certification exam which, if successful, gives the opportunity to join the Loyalty Program, providing visibility on our website www.kseniasecurity.com, Private section. This generates free advertising for all those who will show interest in our solutions.

The Ksenia Security Certification Program has been completely redesigned and includes 4 Certification categories, divided according to the following settlement:

Selected Installer
Silver Certified Installer
Gold Certified Installer
Specialist Certified Installer

This is an educational path; therefore, it always starts from the first step (Selected Installer) and then progress towards the next Certification levels.

The Certificates acquired are valid for a whole calendar year; to renew them, it will be enough to take the exam again and score the minimum required in the Loyalty Program.





INDUSTRY 4.0: MOBILE REVOLUTION

lares 4.0

www.kseniasecurity.com



**The most Innovative IoT Solution
for Security and
Home & Building Automation**



Ksenia
security innovation

lares 4.0

HYBRID IoT CONTROL PANELS FOR SECURITY AND
HOME & BUILDING AUTOMATION

lares 4.0

product code KSI1400016.300 - lares 4.0 - 16
 KSI1400040.300 - lares 4.0 - 40
 KSI1410040.300 - lares 4.0 - 40 wls
 KSI1410140.300 - lares 4.0 - 140 wls
 KSI1410644.300 - lares 4.0 - 644 wls



lares 4.0 - 644+ wls



lares 4.0 - 16



lares 4.0 - 40



lares 4.0 - 40 wls



lares 4.0 - 140 wls



Secure web



App Ksenia Pro



App lares 4.0



5 years warranty

CERTIFICATIONS

EN50131 Grade 3 - class II

T031:2017

SSF 1014 Larmklass 3



lares deriva dal latino secondo cui i "Lari" nella Roma antica, erano le divinità che proteggevano la domus, la casa; quale miglior nome per una famiglia di centrali di Sicurezza?

lares comes from Latin and means "Lari": in Ancient Rome they were the divinities who protected the domus, the home. What better name for a family of Security control panels?

The control panel is available in 2 different versions: for smaller sizes the control panel has only one BUS (compatible except for some exceptions with all existing BUS devices that can be updated by the control panels) while for all the others it already integrates the double BUS and the 868MHz bi-directional wireless transceiver (compatible with all existing Ksenia wireless devices).

Particular attention is always put to the ease of installation and for this reason all the connection terminals are removable.

On all versions and regardless of the control panels size, the boards have an SD card slot to expand the available memory, in addition to receiving directly on board (without communication BUS to maximize the speed of transit of information and data) both the 3G module (and soon the 4G-LTE) and, where necessary, the PSTN module. In any case, sending of voice messages, e-mails, text messages, push notifications, Contact ID and SIA DC-09 level III protocol to the Surveillance Centers is guaranteed.

The Installer APP then allows you to centralize and geolocalize all the installed units and therefore to offer maximum assistance to the end customer by receiving push notifications also for technological alerts (this is valid for all the IoT control panels: lares 4.0 and lares wls).

lares 4.0 is available and perfectly scalable in sizes 16, 40, 140 and 644 or even customizable for needs of higher areas and / or outputs.

The panel board can be installed inside the existing metal containers used for 'lares-IP'; furthermore a new metal container is available for medium-large installations: with dimensions of 435x325x90mm, it allows to allocate not only the motherboard of the control unit with the related add-on modules, but also up to 7 expansion modules, the 18Ah back-up battery and has a 50W switching power supply.

MAXIMUM RELIABILITY

lares 4.0 control panel is designed for the most severe installation and operating conditions and for the most "sensitive" applications. In fact it is certified with the European standards EN50131 grade 3 and T031.

lares 4.0 wls 96

product code **KSI1410096.30x** - lares 4.0 wls 96 Kit (polycarbonate box and power supply)
KSI1413096.30x - lares 4.0 wls 96 Kit (polycarbonate box, power supply and 3G module)
KSI1410096.3xx - lares 4.0 wls 96 Kit (polycarbonate box, power supply and keypad)
KSI1413096.3xx - lares 4.0 wls 96 Kit (polycarbonate box, power supply, keypad and 3G module)



lares 4.0 wls 96 - Kit



CERTIFICATIONS

EN50131 Grade 2 - class II
T031:2017
SSF 1014 Larmklass R



Performances and capacities in comparison

The lares 4.0 control panel platform was designed and produced with unprecedented power, computing and memory speed (even compared to the existing lares, however already superior to the major competitors) as highlighted by the comparative table shown in the table below.

It allows to manage parallel communications in encrypted mode at 2048bit with loading times of a few seconds, storing hundreds of screenshots from the supported IP cameras, doing the back-up of local programming on SD-card, etc.

	lares	lares 4.0
Flash memory (space code)	512 MB	4 MB
RAM	96 KB	512 KB
CPU Clock	80 MHz	240 MHz
Dystone MIPS (Mln. Instr. per sec.)	132	480
NAND data memory	8 MB	32 MB
NOR data memory (eMMC)	-	4 GB
SD card slot	no	yes

HOW TO ORDER

KSI1410096.30x - lares 4.0 wls 96 Kit

It is able to manage up to 32 radio peripherals and up to 96 wireless zones. It is possible an essential BUS-based expansion: up to 3 user interfaces (a choice among ergo keyboard, volo and volo-in proximity readers), 1 BUS siren (imago or radius), 1 domus to manage the functions of the programmable chronothermostat. lares 4.0 wls 96 with white or black polycarbonate box and 1,7A power supply.

KSI1413096.30x - lares 4.0 wls 96 Kit

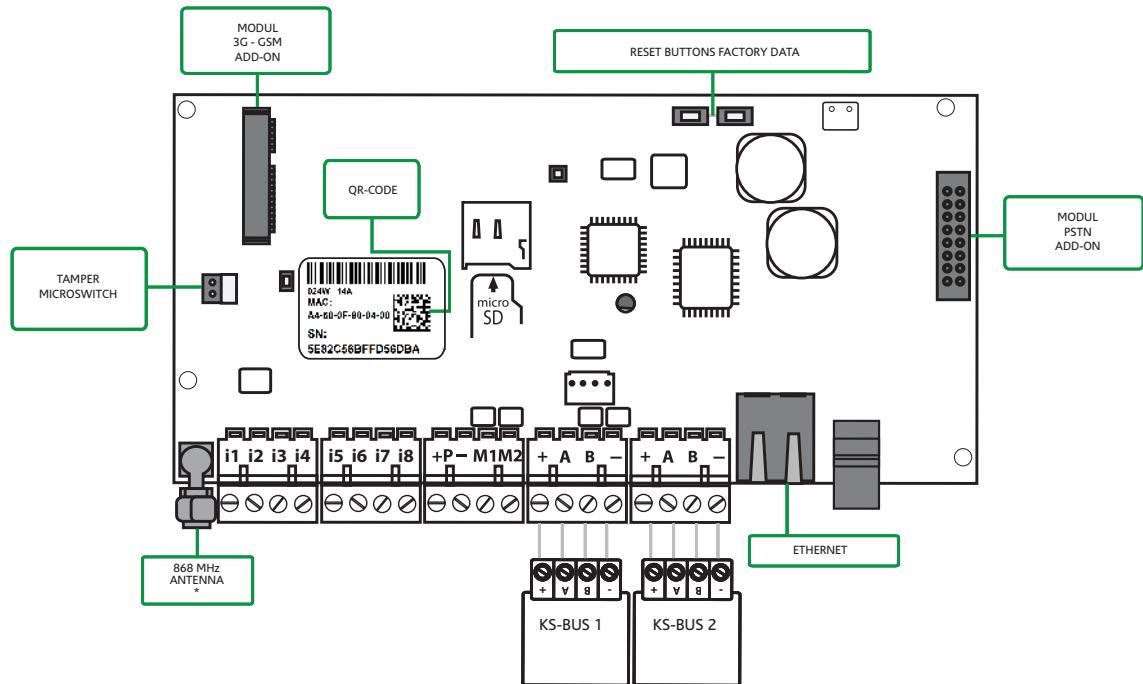
It is able to manage up to 32 radio peripherals and up to 96 wireless zones. It is possible an essential BUS-based expansion: up to 3 user interfaces (a choice among ergo keyboard, volo and volo-in proximity readers), 1 BUS siren (imago or radius), 1 domus to manage the functions of the programmable chronothermostat. lares 4.0 wls 96 with white or black polycarbonate box, 1,7A power supply and 3G module.

KSI1410096.3xx - lares 4.0 wls 96 Kit

It is able to manage up to 32 radio peripherals and up to 96 wireless zones. It is possible an essential BUS-based expansion: up to 3 user interfaces (a choice among ergo keyboard, volo and volo-in proximity readers), 1 BUS siren (imago or radius), 1 domus to manage the functions of the programmable chronothermostat. lares 4.0 wls 96 with white or black polycarbonate box, 1,7A power supply and ergo S (same color as the box).

KSI1413096.3xx - lares 4.0 wls 96 Kit

It is able to manage up to 32 radio peripherals and up to 96 wireless zones. It is possible an essential BUS-based expansion: up to 3 user interfaces (a choice among ergo keyboard, volo and volo-in proximity readers), 1 BUS siren (imago or radius), 1 domus to manage the functions of the programmable chronothermostat. lares 4.0 wls 96 with white or black polycarbonate box, 1,7A power supply, ergo S (same color as the box) and 3G module.



Certified EN 50131- Grade 3 - class II
and T031: 2017
SSF 1014 Larmklass 3

HOW TO ORDER

KSI1400016.300 - lares 4.0 - 16:

up to 16 IN + 16 OUT with 6 partitions - native with Ethernet interface.
(no wireless on board - requires a duo transceiver)
Dedicated APP for Installer (Ksenia Pro) and User (lares 4.0)

KSI1400040.300 - lares 4.0 - 40

up to 40 IN + 40 OUT with 12 partitions - native with Ethernet interface.
(no wireless on board - requires a duo transceiver)
Dedicated APP for Installer (Ksenia Pro) and User (lares 4.0)

KSI1410040.300 - lares 4.0 - 40 wls

up to 40 IN + 40 OUT with 12 partitions
native with Ethernet interface and 868 MHz bidirectional wireless
(DPMS technology - Dynamic Power Management System) and double
BUS on board.
Dedicated APP for Installer (Ksenia Pro) and User (lares 4.0)

KSI1410140.300 - lares 4.0 - 140 wls

up to 140 IN + 140 OUT with 20 partitions
native with Ethernet interface and 868 MHz bidirectional wireless
(DPMS technology - Dynamic Power Management System) and double
BUS on board.
Dedicated APP for Installer (Ksenia Pro) and User (lares 4.0)

KSI1410644.300 - lares 4.0 - 644 wls

up to 644 IN + 644 OUT with 30 partitions (and beyond on specific
project): native with Ethernet interface and 868 MHz bidirectional
wireless (DPMS technology - Dynamic Power Management System) and
double BUS on board.
Dedicated APP for Installer (Ksenia Pro) and User (lares 4.0)

(+) lares 4.0 - 644+ wls: In order to obtain a unique and customized solution, for large
project, it is possible to agree a customization of
lares 4.0 with a number of areas larger of 644 already available.

PARTS INCLUDED

Each PCBA control panel board is delivered with:

- Power supply cable and battery connection
- 10 10K end-of-line resistors
- Installation manual and quick guide
- 868.5MHz antenna with 30cm of cable (only on wls versions)

ACCESSORIES

KSI7404130.010 - Metal cabinet painted in white 325 x 435 x 90 mm,
lockable door and microswitch tampers, removable base,
space for 7 expansion modules and an 18 Ah back-up battery.
As standard, the metal cabinet is supplied with a 50W
Switching power supply.

KSI7402117.010 - Metal cabinet painted in white 255x295x85 mm,
lockable door and microswitch tampers, 2 keys, space for 1
expansion modules and 7Ah back-up battery.
As standard, the metal cabinet is supplied with a 25W
Switching power supply

KSI7403130.010 - Metal cabinet painted in white 325x400x90 mm,
lockable door and microswitch tampers, 2 keys, space for 2
expansion modules and 7Ah back-up battery.
As standard, the metal cabinet is supplied with a 25W
Switching power supply

KSI4800000.300 - Kit auxiliary Antenna with 30 cm cable.

KSI4800001.300 - Kit external Antenna with 3 m cable.

lares 4.0 MAIN FEATURES						
	lares 4.0 wls 96	lares 4.0 - 16	lares 4.0 - 40	lares 4.0 - 40 wls	lares 4.0 - 140 wls	lares 4.0 - 644 wls
Zone Management						
Number of zones (of which radio)	100 (96)	16 (16)	40 (40)	40 (40)	140 (64)	644 (64)
number of customized balancing	1	2	4	4	14	64
Output Management						
Number of outputs (of which radio)	18 (16)	16 (16)	40 (40)	40 (40)	140 (128)	644 (128)
Virtual Output (timer software)	●	●	●	●	●	●
Motherboard / Software						
1. Programmable inputs/outputs	2 (output only)	2	2	2	2	2
2. Inputs	4	8	8	8	8	8
on board 868MHz radio interface	●	-	-	●	●	●
on board BUS	1	1	1	2	2	2
Siren Connector on board	●	-	-	-	-	-
Number of partitions	5	6	12	12	20	30
Number of arming modes	8	8	32	32	64	128
#Hashtag number	2	2	12	12	20	64
Rooms number	8	12	24	48	64	128
Timer of time scheduler	4	8	64	64	64	128
Number of stored events	1.500	1.500	1.500	5.000	10.000	10.000
Number of manageable users	16	16	64	128	512	1024
Number of programmable scenarios	8	8	32	32	128	512
Number of events groupings to which associate the scenarios	32	32	64	64	256	1024
Thermostat	1	-	8	8	24	40
Number of IP cameras	4	4	12	12	20	30
ergo-T/ ergo-T plus	1	2	4	4	8	15
BUS management						
User Interfaces (ergo, ergo S, ergo M, volo, volo in)	3	6	24	24	40	64
Expansion Module (auxi, auxi relè, auxi 10in, auxi-L)	-	4	24	24	64	250
Expansion Module auxi-H	-	-	●	●	●	●
opis/divide	-	4	12	12	20	32
duo BUS (64 peripherals)	-	2	2	1 (2)*	1 (2)*	1 (2)*
Sirens (indoor and outdoor)	1	6	24	24	40	64
domus moduls	1	-	8	8	32	64
Wireless						
Wireless sensor (poli, nanus, unum, velum, nebulia)	32	16	40	40	64	64
imago wireless Siren	3	3	3	3	5	5
opera Remote control	16	16	64	64	64	64
duo repeater	2	2	2	2	2	2
auxi wireless I / O	8	8	20	20	64	64
ergo wireless	4	2	3	3	4	4
Manage Notifications						
Number of contact lists	8	8	8	8	16	32
Number of contacts for each list	8	8	8	8	8	8
Number of events grouping to which associate a list of contacts	16	16	32	32	64	128
Sia-IP Couples of receivers	1	1	3	3	3	3
Contact-IP Couples of receivers	1	1	3	3	3	3
Hardware						
Power supply voltage	15 Vcc ± 1%					
Central Power Consumption (max)	100mA					
Temperature range	+5 °C / +40 °C 23 °F / 131 °F					
Degree of protection IP	IP34					

* If the Motherboard is already having the wls "onboard", n.1 "duo BUS" can be added.

lares 4.0 User APP

18

HYBRID IoT CONTROL PANELS FOR SECURITY AND HOME & BUILDING AUTOMATION / lares 4.0



MAXIMUM FREEDOM and CREATIVITY

Thanks to this new APP, the User can manage all lares 4.0, wired and hybrids.

The application allows the complete monitoring of the system, the management of the Home Automation part and all aspects of Video Verification, by connecting to any ONVIF camera model.

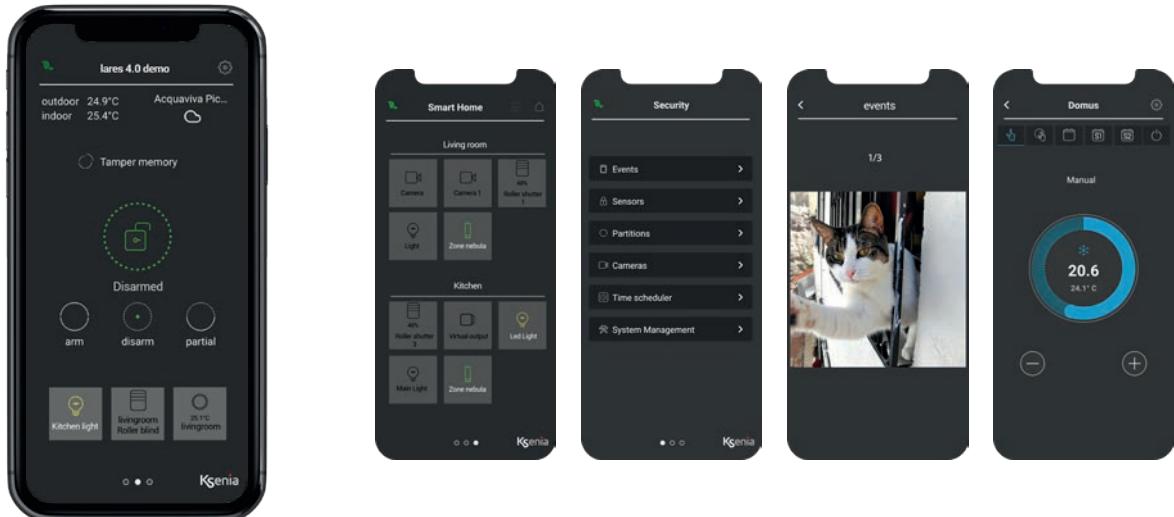
The new interface is simple and intuitive. It is identified by a dashboard with temperatures and weather forecasts, usable through a new scrolling navigation. It allows the personalization by the User through the use of the favorites and the choice of the background color.

The APP lares 4.0 is divided into three sections: Security, Home and Smart Home.

In the first, it is possible to view the event log and the status of all the sensors, manage the time programmer, view the details of any faults and access the user management.

The status of the whole system is visible in the Home and there is a quick check of the activation, or deactivation, of the alarm system.

The third and final section is completely dedicated to the Home Automation part: on this page the User can control all the exits, assign the categories and have full control of lights, blinds, scenarios, and much more. The application is extremely flexible and allows you to set the page display even for rooms; this facilitates the programming and the detailed view of the whole system. Overall, therefore, with the use of a single App it is possible to monitor the various aspects relating to Security and effectively manage Home Automation and BMS (Building Management System). The App lares 4.0 is free and available for iOS and Android operating systems, downloadable from the relevant stores on any mobile device, smartphone or tablet.



Description of lares 4.0 main functions

Input section

Each control panel has 8 programmable inputs and 2 terminals that can be configured as inputs or outputs. Practically we already have on the panel board up to 10 inputs.

Furthermore, a special connector is available for connecting the protections against opening and removal of the control unit from the wall. Depending on the model, the number of inputs can be expanded up to a maximum of 644, using the various auxi expansion modules, the ergo keypads for wired zones or wireless detectors.

Each input is programmable according to one's own needs: no control panel on the market offers so much flexibility.

Output section

The number of outputs can be expanded up to a maximum of 644 using the various auxi expansion modules, the ergo keypads or the wireless modules auxi wls. Each output can be programmed according to needs: polarity, mode, times, activations. Everything kits easily to any installation need.

KS-BUS interface

All the panels have a KS-BUS interface for connecting Ksenia peripherals, which allow to expand the capabilities and functionalities of the control panel.

In the wireless versions, the panels have a double BUS on board, the speed is doubled and isolation is also guaranteed even in case of severe failure of one of the two BUS.

Communication add-on

The communication add-ons can be connected to the control panel board: one for the mobile part (GSM/GPRS or 3G/HSPA), the other one for the PSTN part.

Unlimited Memory

All the panels have a 4GB eMMC memory to save programming data, event logs, updated device firmware, screenshots of IP cameras. And if this memory is not enough, it will always be possible to expand the capacity through the special SD card slot.

Power control

lares 4.0 monitors both the external power supply voltage and the battery voltage: periodically it checks its efficiency and alerts in case of problems. Moreover, in case of prolonged power failure, lares has a battery disconnection function to prevent deep discharges: the control panel, before "auto-shutdown", performs all the necessary checks, stores the date and time of the event going in stand-by in security. In this case even the sirens will not sound, avoiding unnecessary disturbances. When the power returns, everything will be restored as before, including the status of the outputs!

Ethernet connectivity

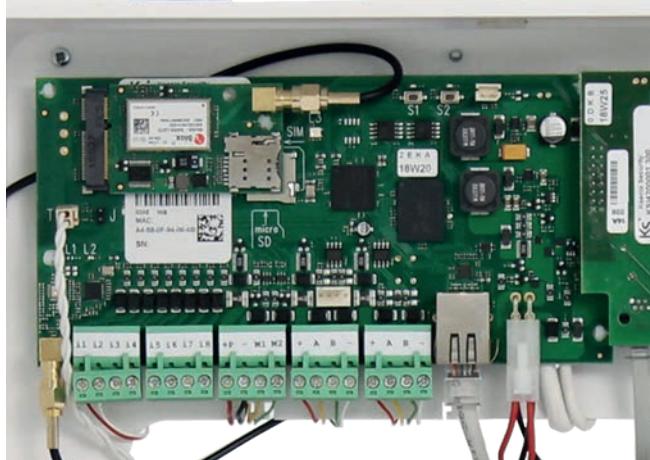
In compliance with Ksenia philosophy, the IP interface is already integrated on the motherboard: a solution that allows you to comfortably manage the control panel from anywhere in the world from any internet connection. It is possible to program the

control panel, perform all the management operations available in the system through the integrated installer WEB-SERVER, connecting to the Ksenia SecureWeb cloud for the remote management and programming via mobile APP. The system is protected by a triple security: all remote operations require password entry, the data are sent over the network under encrypted protocol and finally it is possible to disable remote access at any time or limit its functionality. In addition the system is able to send e-mails, synchronize the clock via NTP protocol, manage a P2P connection with the DNS ksenia, send the events to the telecommunications centers via the SIA DC009 protocol and much more without the need for hardware or additional licenses.

Finally, the network port is the best way to expand the functions of the control panel: remote communication via the gemino IoT with 4G-LTE module, user control via ergo-T and ergo-T plus touchscreens, integration with third-party systems.

ONVIF compatibility

On the IP versions of the lares control panel, cameras compatible with the ONVIF protocol (Open Network Video Interfaces Forum) can be integrated without the need for additional cards or hardware. Without the need to perform port mapping on the router, it is possible to send screenshots when an alarm occurs or see what happens in the protected areas in real time.



Partitions

Each zone can be freely associated to a partition to simplify its management, depending on the model up to 30 partitions are available. For each partition it is possible to program the entry, exit, warning, patrol times and define different entry modes.

Voice messages

On the control panel it is possible to register a virtually unlimited number of different voice messages, with hundreds of minutes of recording; they allow to warn the user in case of alarm or failure (with a personalized message for each zone).

The voice messages are generated by a text-to-speech (TTS) synthesis engine: it is available thanks to the Loquendo® libraries (*) and released by a "one-off" license.

You can use the licenses purchased on USB key that are compatible with traditional lares, for the generation in local connection, or buy a new one with scratch card for generation via KseniaSecureWeb (therefore remotely via APP).

Programmable logics

Any request received from your Customer, also the strangest, can be satisfied thanks to the Programmable logics.

Try to put together hundreds of different events and arrange them with AND/OR operators: it will take few seconds to make

the features of lares 4.0 more flexible and surprising!

#Hashtags

#hashtags are a necessary tool of work when you need to implement replicated programming.

After all, they are simply labels which allow to operate on several homogeneous objects at the same time. So, to create a scenario to switch off all the lights, you do not need to program a long list of actions that should act on a single output. It will be enough to create #hashtag #light, associate it to all related outputs and write down just one instruction that turns off all the #light.

The same facility is also available for zones, users and user interfaces management!

Lots of new security features and integrated home automation

Not only is the platform easily integrated into any logic of Home Integration & Automation, but it is the absolute protagonist being perfectly able to manage the home automation applications you have always dreamed of for your home without the need for PC or complicated programs.

Below is a list of some home automation applications that do not include intrusion:

- lighting
- heating / air conditioning systems

- irrigation systems
- automation and load control
- fire detection and suppression system
- audio and video entertainment
- audio and video surveillance
- access control

The control panel also allows the acquisition of a new programming without restarting the system, any modification does not change the status of the system.

New functions have been added to expand the potential of the control panel, such as hashtags per zones, outputs, users and user interfaces: a single label to manage even 644 outputs in one go! Many new features on scenarios, such as the possibility to exclude and include zones, enable or disable users, manage 4 modes of entry (manual override, forced with exclusion, forced with alarm, certified EN50131).

Moreover the behaviour of the scenario can even be variable depending on the localization (local or remote): for example, opening a door remotely requires the insertion of a PIN while locally it takes simply to press a button!

All this without losing control of the intrusion, today even more powerful but simplified in many aspects to facilitate the installer's work.



HOW TO ORDER

KSI7800011.000 - Scratch card with a licence for 1 voice/1 language. It can be activated on www.kseniasecureweb.com

KSI7800010.0xx - License on USB hardware support with a licence for 1 voice/1 language. Contact Ksenia's sales office to select the voice / language.

Loquendo

* It may be associated with any model / brand of Control Panel, even if they are without voice dialer.

Access control

The access control section, already integrated on the 4.0 lares, is also highly developed. In fact, the control panel is able to manage over 1000 users to whom it is possible to associate PINs to be used in the keypad or RF-ID tags. The user can interact with the system by having up to 64 user interfaces (keypads and proximity readers), which allow a management of every gate.

Each user can be assigned to one of 7 different access levels, with different privileges: from the administrator who has complete control of the system, to the minimum level which is only allowed to activate a scenario.

From lares 4.0 app it is possible, for administrators and masters users, to manage the authorizations and configurations of other users, as long as they belong to the same partitions.

Finally, an interface is available on Ksenia SecureWeb for the centralized management of users on multiple control panels, for an administrator it becomes simple and immediate to manage, for example, all users of the same chain of stores!

Rooms / Maps

End-user has at his disposal a logical organization subdivided into rooms, so he can interact with numerous features configured on his control panel. Each device that has been programmed on the system (sensors, outputs, scenarios, cameras, etc.), in fact, can be combined with one or more rooms. With the APP lares 4.0, opening the display for rooms in the section SMART HOME, it is possible viewing each element, previously configured, in that room and be immediately in control whenever you are.

But there is more than that!

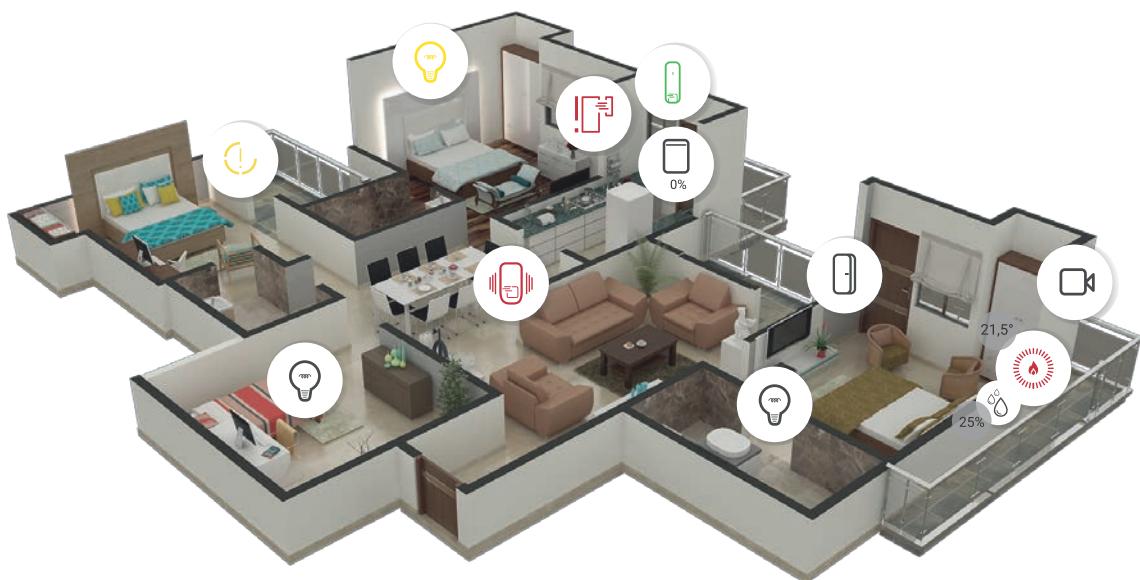
Each room can be linked with an image, a picture of the space or a layout where each device can be placed exactly where it is physically located. With one simple click, you can move from one corner of your house to the other, without getting up off the couch!

Chrono-thermostats

Thanks to the temperature and humidity sensor of domus, the central panel offers to end-user a sophisticated control of heating and air-conditioning of rooms. Each control panel can manage up to 40 independent chrono-thermostats, each one of them can operate over independent air-conditioning devices or thermostatic valves. The easy management through APP lares 4.0 for user, or even from ergo-T touch keyboard, joins an exceptional level of functions: from a trivial manual management of temperature up to the programming of weekly programmes divided into time slots and advanced energy saving modes.

Of course, both heating and air-conditioning can be set according to the season.

Finally, the possibility of controlling humidity of environment, because 360 degree management of comfort is a must-have!



Firmware update remotely

Both the control panel firmware and all the peripheral devices connected via the KS-BUS can be simply updated in a few seconds. It is not necessary to make any special connections, nor to insert jumpers or switch off the system or peripherals: the firmware is already in the control panel which downloads it by itself at every update from the KseniaSecureWeb.

The update is done by simply pressing a button and it is safe. All Ksenia Security devices have a unique firmware update technology: the dual-firmware-mode.

A copy of the new firmware is saved on the device (control panel) that needs to be updated. Once the copy is finished (it can be done during normal system operation) the device checks the new firmware using a CRC (Cyclic-Redundancy-Check): if it is correct, it

will start using the new firmware; otherwise it will continue to use the old one code, ensuring maximum reliability even in case of interruption of the transmission.

In practice all Ksenia Security systems are backwards compatible, new features or functions available in the future can be added also to existing systems without the need to modify or replace the peripherals themselves.

Future devices: scalability

This special update management ensures that, once a lares control panel is installed, it will be compatible with all future Ksenia Security devices, without any need to replace the control panel, simply by updating its firmware.

The future ahead of us

lares 4.0 is an evolutionary platform that will

allow us to always add new and innovative functions oriented to Security, access control and Home & Building Automation.

Feedbacks from our customers are important to give the right priorities to all the functions we intend to add from time to time and identify new ones.

lares platform has been constantly enriched with functions from 2011 until 2015, absorbing most of the R & D resources. We expect the lares 4.0 platform to follow the same path!



Welcome to the Smart Home: Control4 & Crestron

We, at Ksenia Security have developed two drivers capable of integrating all the lares 4.0 central panel series, respectively in the Control4 and Crestron worlds.

Therefore, within the Control4 and Crestron Security management interfaces, it is possible to manage many functions of the lares 4.0 control panel: partitions, zones, outputs, scenario activation, etc. Furthermore, when events occur on the lares 4.0 control unit, it is possible to perform some actions on the Control4 and Crestron devices.

Control4

Control4 is one of the main leading providers of personalized automation and control solutions that allow the user to virtually control any device installed at home or in the office. Control4 was founded in 2003, the company's mission is to offer a smart and more convenient way to control and automate lighting, music, video, energy, of a single room or the entire house.

Thanks to the collaboration with the most important consumer electronics, household appliances, energy and lighting brands, Control4 is a leader in the sector of interoperability, ensuring a continuous expansion of the ecosystem of connected devices that will work together at home or in the company.

Crestron

Crestron Electronics has carved the path for technological innovation since 1971. Crestron creates automation solutions that transform the way people live their lives, making their day-to-day tasks easier and improving efficiency and productivity. Crestron engineers high-tech solutions for every market. From customized luxury smart home automation to scalable out-of-the-box collaborative tools, Crestron provides award-winning, leading-edge technology and outstanding customer experiences, better solutions that address the needs of customers the world over. Crestron has solution for Audio/video distribution, Lighting control, Building Management Systems (BMS), GUI design software, Speakers and much more!



Control4



Google Home & Alexa: complete integration

24

HYBRID IoT CONTROL PANELS FOR SECURITY AND HOME & BUILDING AUTOMATION / lares 4.0

Technological progress has inevitably changed our habits and greatly simplified our daily actions.

Ksenia Security, protagonist in this strong expansion, has created a concentrated blend of possibilities that can combine, at the same time, innovation and simplicity of use. So, the integration between lares 4.0 and the virtual assistants Google Home and Amazon Alexa was born.

Intelligent digital assistants have revolutionized the way people interact with objects and technology, in particular, with home and Home Automation solutions. Today, thanks to the voice assistance function that distinguishes Alexa and Google Home, Users can manage all the Smart devices in their home through a simple voice command.

This has a strong impact, for example, in situations of motor disabilities, greatly simplifying daily actions within the home: management of blinds, monitoring of lights, coordination of scenarios, switching on or off of the air conditioner and the full power of all the

desired automations.

It is the real case in which technological innovation is at the service of people, to satisfy every type of need.

In this way, Home Automation becomes a convenient daily ally, helping to create a higher level of interaction with one's home through a perfect User Experience.

To all this is added a surprising ease of use, thanks to the support of the APP lares 4.0 that offers numerous functions and a true graphic customization.

A real guarantee of being "always connected" even with the protection of one's own home. All you have to do is control the Ksenia Security and lares 4.0 Home Automation using your voice!

lares 4.0 is evolving and expands its functionality.

lares 4.0 is Ksenia Security's hybrid IoT platform that fully interprets the Digital Revolution. It is a unique solution, with high innovative potential, able to guarantee Security and Home Automation for every type of application. A

double offer for those who install a lares 4.0 in their home or business.

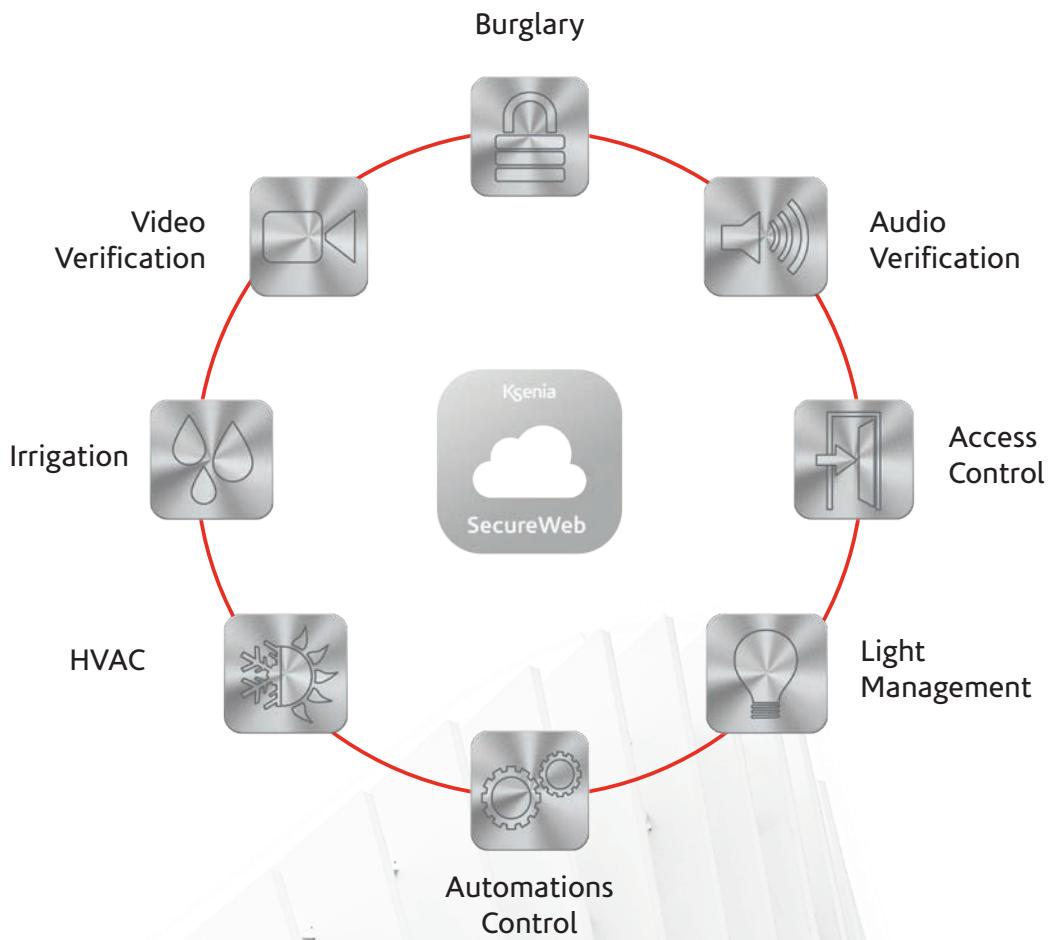
It responds with an integrated solution to the request of the customer who wishes to secure his residence and, at the same time, manage the energy resources of his home, by installing an Home Automation system, with the possibility to control the whole system from a single APP, via smartphone or tablet.

He currently holds a predominant position in the digitization era, in terms of physical security (Intrusion, Video Verification, Access Control) and Home & Building Automation. lares 4.0 is evolving and expands its functionality thanks to complete integration with intelligent personal assistants Google Home and Amazon Alexa.

From this union comes the great opportunity to manage all Smart devices in your home and, thanks to the voice assistance function, you can simply use the voice.

* The use of voice assistants may decrease the level of Security of the system.







Ksenia

security innovation

gemino IoT
3G module
PSTN module
porta 4.0
switch 4.0
ksenia DNS

lares 4.0 COMMUNICATION SYSTEMS

gemino IoT comunicator 4G-LTE/IP

product code KSI4104000.310 - gemino IoT

28

lares 4.0 COMMUNICATION SYSTEM/ gemino IoT



gemino dal latino significa unire strettamente, mettere uno accanto all'altro.
gemino derives from Latin and means closely related/linked or to put one next to the other.

gemino IoT 4G-LTE/IP Communicator is an additional device that increases the communication capabilities of the lares 4.0 IoT platform thanks to the M2M 'ublox' Cat.1 professional module. It works on two transmission channels: encrypted Ethernet/IP (with proprietary protocol) and 4G-LTE (Long Term Evolution) data network, with band 3, band 7 and band 20 (800, 1800 and 2600 MHz respectively).

gemino IoT is equipped with an Ethernet port and a micro-SIM card slot on board and it is designed to remotely control Dual-Path communication on lares 4.0 control panels. gemino IoT allows lares 4.0 IoT platforms, installed on sites that do not have sufficient GSM coverage, to be reachable from 4G data network (with reception also on 3G or GPRS bands) or via Internet, in a completely transparent way for the installer and end-user as well. All of the above is related to specific features, such as: programming and management of the control panel, push notifications when events occur, sending reports with SIA DC09 digital protocol with supervision of channel and receiver (dual-path), video-verification of IP cameras connected to the local network. Finally, it includes easy management and fast synchronization of voice messaging, thanks to the now consolidated partnership with TTS Loquendo® of Nuance Communication.

TECHNICAL DATA

- **Power supply:** PoE 13W or 12VDC
- **Current consumption:** PoE class 3 (12.95W) / 80mA stand-by, 250mA max
- **GSM bands:** GSM 4G Module u-blox
- **Maximum data rate:** 10 Mbit/s in download, 5 Mbit/s in upload
- **Maximum transmission time of vocal alarm:** 10 sec.
- **Alarm transmission system:** SP2 - SP4 - DP3
- **External antenna connector type:** SMA
- **Operating temperature:** -10 +55°C
- **Humidity:** 95%
- **PCBA dimensions:** 92x113x20 mm (hxlxp)
- **Max overall dimensions:** 140x102x30 mm (hxlxp)
- **Weight:** 190 gr

INCLUDED PARTS

- 1 communicator gemino IoT (PCBA)
- 1 'Slim' plastic box
- 1 Installation Manual

HOW TO ORDER

- KSI4104000.310 - PCBA

ACCESSORIES

- KSI4800005.300 - External 4G antenna Kit with wall-mounting bracket, connectors and 10 m cable.

COMPLIANCE

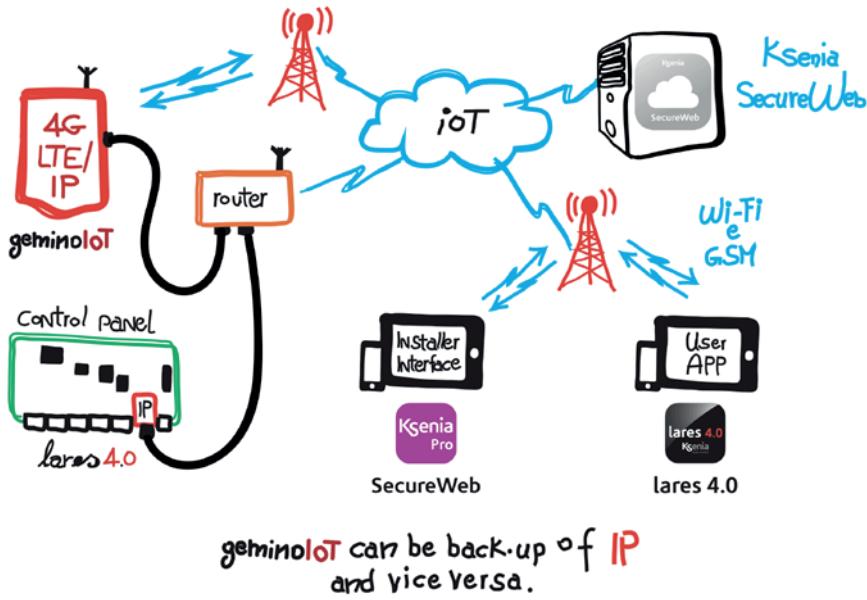
Europe - CE, RoHS
EN50131 Grade 3 class II
EN50136 Grade 3 class II

In addition, gemino IoT allows the supervision and therefore the sending of voice, SMS and Contact ID reports when any of the events programmed occur. Also it provides a high-speed data channel (up to 10Mbit/s in download) able to offer a complete back-up of communication network in the event of failure or temporary lack of coverage, from the 4G network to the IP-LAN network and vice versa, ensuring a total communications and data security.

gemino IoT has to be installed where the lares 4.0 IoT platform resides, in the same LAN infrastructure through the Ethernet port. The device is supplied with a plastic case for wall mounting, with special openings for connecting the Ethernet network cable and an external antenna if necessary (as an alternative to the internal one). It is powered by PoE or, alternatively, by 12V external power supply.



Antenna 4G



perché gemino IoT why gemino IoT

The Ksenia SecureWeb service is reserved for professional installers; it offers the possibility to configure the whole lares 4.0 IoT platform by connecting directly to the portal www.kseniasecureweb.com (via PC/MAC) or via the "Ksenia Pro" APP, it is available for download from the App Store (Android or iOS), for any mobile device, smartphone or tablet, free of charge.

The SecureWeb portal, as well as the "Ksenia Pro" APP, satisfies, through an intuitive and user-friendly graphical interface, all the technical aspects related to the configuration of the plants, including maintenance, remotely automatic updates of firmware (central unit and peripheral cards) and real-time monitoring of the systems installed in the field.

The end-user has the possibility to manage and monitor the status of his system as well; he can download a free app for real time checking home or business: "lares 4.0" APP is available for download from the App Store (Android or iOS).

PROGRAMMING

gemino IoT 4G-LTE/IP communicator is automatically acquired by lares 4.0 by entering the MAC Address printed on the label on the device. If DHCP protocol is enabled, it does not require the manual assignment of the IP address. The few customization data are required if you have to use the external antenna, instead of the internal one and you want enable the device supervision; from GSM side it is possible to disable data traffic and, if necessary, customize the authentication data of your carrier's APN (Access Point Name).

- Because it supports 4G-LTE connectivity, fourth generation network for data transmission on a high-speed mobile network, up to 10Mbit/s in download. 4G-LTE technology improves performance and communications and provides great advantage in reliability of connections and high speed.
- Because you are allowed to choose the most suitable position to install gemino IoT, for the best reception of the mobile network signal. As gemino IoT is connected to lares 4.0 router platform via Ethernet and powered by PoE, it is not constrained by the position occupied by the central unit but aimed to guarantee best coverage.
- Because it is provided in an extremely compact (140x102x30 mm) case, it also implements the internal antenna on board, that make it a modern technological and design product.
- Because it communicates through the IP network: on one side toward lares 4.0 platform, which guarantees adequate speed for data traffic and for communications offered by the services provided, and on the other side it ensures 4G-LTE network redundancy, for a complete back-up of communications, in case of failure or temporary lack of coverage (switching from 4G network to IP network and vice versa).
- Because it represents the natural technological evolution of the Add-on module (gemino BUS 3G) transitioning to 4G-LTE network, maintaining the same functionalities: remote configuration of the control panel through Ksenia PRO application or from Ksenia SecureWeb service, remote management by end-users with lares 4.0 application, sending of messages using the SIA DC09 protocol, notifications via SMS, e-mail, voice messages, Push notifications and Contact ID .

3G add-on module

product code KSI4103000.300 - 3G module

30

lares 4.0 COMMUNICATION SYSTEM/ 3G Module



TECHNICAL DATA

- Interface mini PCI-express
- Power supply: 3,3 Vdc
- Current consumption: 50 mA stand-by, 2,2 A max
- UMTS Bands: 900/2100 MHz
- GSM Bands: 900/1800 MHz
- Maximum data rate: 7.2Mbit/s DL, 5.76Mbit/s UP
- Operating temperature : +5°C to +40°C
- Compatible SIM type: micro
- Antenna connector type: SMA
- PCBA dimensions: 32x62x14 mm

PARTS INCLUDED

- 1 3G add-on module (PCBA)
- 1 PCBA Support holder
- 1 Installation manual

HOW TO ORDER

KSI4103000.300 - 3G module

CERTIFICATIONS

Europe - CE, RoHS
EN50136 Grade 3 - Class II
T031:2017
SSF 1014 Larmklass 3



Thanks to 3G module it is possible to expand the communication capabilities of lares 4.0 control panel. It allows the sending of voice messages, SMS, and contact ID whenever any of the events programmed in the control panel occurs. It also provides a high-speed data channel (up to 7.2 Mbps in downlink) that can do a complete back-up of the IP communication, or even be the only data channel available of the control panel. Regardless of the Internet connection over IP, with the addition of the 3G module, lares 4.0 will be enriched with the following features:

1. Sending of messages using the SIA DC09 digital protocol, with channel and receiver supervision
2. Remote configuration of the control panel through application Ksenia PRO or from the portal www.kseniacsecureweb.com
3. Remote management of the control panel with lares 4.0 application
4. Possibility of video monitoring by ONVIF IP cameras connected in local network to the control panel

ACCESSORIES

KSI4800000.300 - Kit auxiliary Antenna with 30 cm cable.

KSI4800001.300 - Kit external Antenna with 3 m cable



PSTN add-on module

product code KSI4200001.300 - PSTN add-on for lares 4.0



TECHNICAL DATA

- **Add-on Modul with 16 pole connectors**
- **Power Supply:** 12 Vdc and 3,3 Vdc
- **Current consumption:** 10 mA on 12 V, 30 mA on 3,3V
- **Operating temperature:** +5°C to +40°C
- **Connector RJ-11**
- **PCBA dimensions:** 80x38x16 mm

31

PARTS INCLUDED

- 1 PSTN (PCBA) add-on module
- 2 Sustainers for PCBA
- 1 Installation Manual

HOW TO ORDER

- KSI4200001.300 - PCBA

CERTIFICATIONS

Europe - CE, RoHS
EN50136 Grade 2 - Class II
T031: 2017



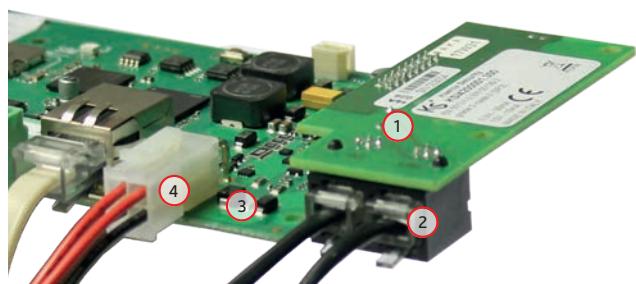
Using the PSTN module, the communication capabilities of lares 4.0 control panel can be extended.

It allows the sending of voice messages and contact ID when any of the events programmed in the control panel occurs.

It is a quick installation module, plugged into the control panel motherboard, and connected to the telephone line through a standard RJ-11 connector.

Another connector, always RJ-11, allows the connection of telephones and other devices that use the telephone line, in case of alarm the device is therefore able to start the communications by disconnecting all the other devices that use the telephone line.

It can work either as a back-up of 3G (or GSM) module or as main line.



1 PSTN module

3 lares 4.0 PCBA

2 Phone line plug

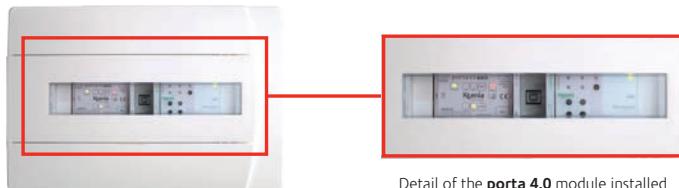
4 Power supply plug

porta 4.0 Konnex Gateway

product code KSI4300001.300 - porta 4.0

32

lares 4.0 COMMUNICATION SYSTEM / porta 4.0



Detail of the **porta 4.0** module installed

porta dal latino significa **accesso, passaggio**.
porta derives from Latin and means access, passage.

Nowadays, KNX technology is the open, world-recognized standard, compliant with the main European and International standards, for automated and decentralized management of: commercial buildings, industries, offices, residential, public places, schools and so much more.

porta 4.0, a KNX compatible device, can take control of all Ksenia lares 4.0 control panels family, through standard KNX devices.

In fact, when the gateway **porta 4.0** receives a Konnex datagram, it is possible to perform the following operations on lares 4.0 control panel:

- Management of monostable / bistable outputs
- Exclusion / inclusion zones
- Scenarios implementation

Moreover, when one of the following events occurs on lares 4.0 control panel:

- Status change of a zone
- Status change of a partition
- A fault

it is possible to send a datagram to a Konnex device, either of switching type or with payload up to 2 bytes.

TECHNICAL DATA

- Power Supply: 12 - 24VDC or PoE
- Consumption: 5W max
- Communication BUS: KNX
- Ethernet interface: RJ45
- Operating range: +5 to +40°C
- Dimensions: 86 x 69 x 58mm
- Weight: 130g

HOW TO ORDER

- KSI4300001.300 - porta 4.0 KNX Gateway

PARTS INCLUDED

- 1 porta 4.0 KNX Gateway
- 1 Installation manual

The whole configuration is instead carried out through the web interface for configuring the lares 4.0 control panel, therefore it can be performed locally or remotely, by using a PC/MAC or a mobile device. The device is connected to the control panel via Ethernet and can be powered by PoE or by external power supply (12 / 24Vdc).

porta 4.0 is supplied with a plastic box that occupies 4 DIM modules.

perché **porta 4.0** why **porta 4.0**

- because it allows a bidirectional interface between lares 4.0 control panel and KNX world;
- because it does not need any dedicated driver, it is completely recognized and can be programmed by lares 4.0 control panel;
- because it is powered directly by PoE or by external power supply.

Switch 4.0

product code KSI4400000.300 - Switch 4.0



TECHNICAL DATA

- **Supply:** 13.8Vdc /1A max
- **Switch 4 ports** 10/100Mbit of which 1 PoE port 13W max
- **Dimensions:** 75x60x16mm

33

INCLUDED PARTS

- 1 Switch 4.0 PCBA
- 4 Sustainers for PCBA
- 1 Installation manual

HOW TO ORDER

- KSI4400000.300 - Switch 4.0

CERTIFICATIONS

Europe - CE, RoHS

switch 4.0 is a 10/100Mbit Ethernet network switch, designed to connect the Control Panels Sistem lares 4.0 with the touchscreen keypads ergo-T and ergo-T plus. It has 4 Ethernet network ports of which one is PoE (Power over Ethernet) that can be used to directly connect an ergo-T or ergo-T plus. The device is powered directly from the lares 4.0 Control Panel power supply and therefore ensures a PoE power supply back-up to the Keypad.





www.kseniadns.com

DNS

Gratis / Free

All the service is completely free for all customers Ksenia; no deadline in terms of time or computational resources.

Assistenza / Tech. Support

All users can access the e-mail support to resolve configuration issues or referring directly support ksenia.



DNS Dinamico / Dynamic DNS

The dyndns is a tool to update in real time a URL, making it always point to the IP address of your system. In this way, the IP address can even change, but the URL address remains the same over time, allowing the connection to the line with dynamic IP address.

KseniaDns.com is a free service without paying options that can exploit this mechanism to your dynamic IP, associating a fixed URL. Inserting a device Ksenia configured to use the DDNS service, in your network, you can indirectly also access other resources, such as cameras, NVR, etc

SMTP gratuito / free SMTP

Even if the dyndns service is not necessary in the case of control panel management via SecureWeb, registering the control panels to the service, it provides a free SMTP server that ksenia devices can use to send emails.

Semplice da usare / Simple to use

Simplified configuration for all devices Ksenia, using the software basis in three steps: register on the portal (only the first time), recording a personal URL, URL configuration of basis / lares 4.0.

www.kseniadns.com

A free service to Ksenia Selected Installers.

Professionale / Professional

All recordings are used to manage countless clients / devices from your account, and you can also monitor all their interactions with the server devices ksenia ddns in the log. Finally you can make advanced searches using various types of filtering information.

Dettagliato / Documented

The service is provided by a very detailed online help for both the registration process that the operation of the various devices.

Performante e Reattivo / Effective and Reactive

A service-based cluster of redundant servers provided directly by Telecom Italy, unlimited resources to provide an efficient, responsive 24x7 Service.

Kseniadns.com, as all Ksenia solutions, simple unique





The Control Panels of the lares series can manage up to 64 wireless devices (or 128 Zones) thanks of the adoption of its new Transceiver linked to the KS-BUS /4 wires Communication BUS.

The Wireless Technology developed represents the very last generation, fully bi-directional (each Peripheral works basically as a Transceiver enabling each single transmission to receive a signal of acknowledgment back, by allowing a consumption optimization and by assuring a much higher reliability than any classic mono-directional system) utilizing the Frequency Band at 868 MHz.

A sophisticated control of the Transmission Power (DPMS – Dynamic Power Management System) enables to reduce interferences, maximize the battery life by optimizing the transmission power according to the distance between each device and considering the specific installation constraints. The outmost protection of the entire system is fully guaranteed by means of the encryption (through a proprietary algorithm) of each communication packet.

All wireless devices are identified by a univocal serial number which is automatically acquired by the system in the installation process; both the basis software and on the ergo Keypad are enabled to show in real time the wireless signal level of each device and the communication path in the case of more BUS Transceivers or Repeater should be present.



868 MHz Frequency Band



Dynamic Power Management System



Full 2-way Encrypted Communication



VLBL Very Long Battery Life



ergo wls, opera, unum wls,
nebula, poli, nanus poli,
velum wls, velum-C wls, matrix,
auxi wls, imago wls, duo,
universal duo

WIRELESS TECHNOLOGY

ergo wls keypad

product code KSI2100022.311 - ergo wls white
KSI2100022.312 - ergo wls black

38

USER INTERFACES / ergo wls



MAIN CHARACTERISTICS

- Dot matrix LCD (visible area 79 x 19 mm)
- Mechanical keys cropped laser
- Available to the final customer in the colors white, black Ksenia
- Backlight and contrast adjustment
- Fast Addressing System: no need to pre-address setting device
(automatic detection of the Control Panel / communicator)

CERTIFICATIONS

Europa - RoHS, CE

perché ergo wls why ergo wls

In the new ergo wls have been included all the qualitative features developed for the ergo M keypad and added the wireless communication capabilities, to make it the best wireless solution for the management of lares 4.0 wls 96 Control Panel.

FUNCTIONS

- Display of System Status
- Display of operating parameters (date / time, GSM network active level GSM, etc.)
- System Commands (complete or partial arming, reset, activation of output terminals, telephone calls, etc.)
- Full Programming of System Parameters / Panel
- Execution of the scenarios
- Exclusion of zones in alarm on the system activation.
- Reset the alarm in progress
- Reset communications

- because it includes the most advanced Wireless Technology, 868 MHz, completely bi-directional, professional and reliable.
- because it integrates the DPMS Technology (Dynamic Power Management System) which allows less interferences and extends the battery life.
- because ergo wls can operate in transceiver mode (RF transceiver only if connected to the BUS).

HOW TO ORDER

- KSI2100022.311- ergo wls white
- KSI2100022.312 - ergo wls black

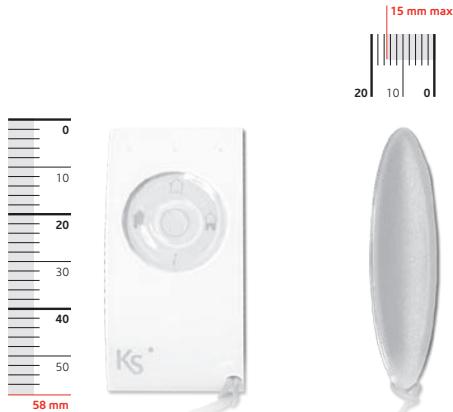
ACCESSORIES

- KSI7203019.000 - Lithium Battery Pack 3V-1900mAh (non rechargeable)



opera Remote Control

product code **KSI7700000.00X*** - opera control, different colors



TECHNICAL DATA

- **Power:** 1 Lithium Battery Type CR2032A included (up to 6 years max. duration time)
- **Operational Frequency:** 868 MHz Band
- **Operation Range (open-air):** up to 400 m
- **Operative Temperature Range:** from +5°C to +40° C
- **Overall Dimensions:** 30 x 58 x 15 mm (hxwd)
- **Vibration:** adjustable duration and switch-off option for energy saving purposes

39

PARTS INCLUDED

- 1 opera remote control
- 1 CR-2032 battery
- 1 Lanyard
- 1 User Guide IT / EN / FR

HOW TO ORDER

- **KSI7700000.001** - White opera control
- **KSI7700000.002** - Black opera control
- **KSI7700000.003** - Grey opera control
- **KSI7700000.008** - Red opera control

ACCESSORIES

- **KSI7203002.000** - Button battery CR2032 (200 pcs per pack)

CERTIFICATIONS

Europe - RoHS, CE
EN50131 Grade 2 - Class II
T014A:2013



opera dal latino significa lavoro, servizio, comodità.
opera derives from Latin means work, service, easiness.

perché opera
why opera

opera: it is a remote control with a revolutionary design, both ergonomic and minimalist.

Thanks to the bi-directional communication, **opera** is not limited to the possibility to activate up to 7 different scenarios, but also to deliver in any moment the system status (arm, away and stay) visualized by one of the 3 LEDs positioned on the upper part. The activation of any scenario is confirmed both visually (through the relevant LED) and by means of a vibra-motor device.

The **panic function** could be also activated by a prolonged pressing of each of the 4 bottoms (or 7 Functions).

The implementation of a complex encryption algorithm guarantees a superior Security level and contemporary allows the utilization of the same remote control's device even with different installations (e.g. main residence and sea cottage).

opera is available in the 4 Ksenia institutional colors, i.e. White, Red, Grey and Black.

• **because** it includes the most advanced Wireless Technology, 868 MHz, completely bi-directional, professional and reliable.

• **because** it integrates the DPMS Technology (Dynamic Power Management System) which allows less interferences and extends the battery life.

• **because** in case of MULTI-RECEIVER system it is able to automatically choose the best radio path.

• **because** the communication is completely encrypted by proprietary algorithm.

• **because** in real time it allows to visualize the system status (after the confirm reception) by visual signalization (three red LEDs).

• **because** it is the only remote control with four bivalent function keys (extended pressure for other scenarios activation).

• **because** it has a revolutionary design which remember the keypads circular scroll.

• **because** it has extremely small size

• **because** it is the only one equipped of vibration motor for received command tactile confirmation

• **because** it is available in four colors: White, Grey, Black and Red

• **because** it is provided with the alternative numeric Keypad, easily interchangeable and useful to use **opera** in domotic purposes.



unum wls Indoor Motion Detector

product code KSI5201000.300 - PIR
KSI5201100.300 - PIR + Pet Immune



40

WIRELESS DEVICES / unum wls



perché unum wls why unum wls

- because it is a digital sensor with double optic.
- because it includes the most advanced Wireless Technology, 868 MHz, completely bi-directional, professional and reliable.
- because it integrates the DPMS Technology (Dynamic Power Management System) which allows less interferences and extends the battery life.
- because in case of MULTI-RECEIVER system it is able to automatically choose the best radio path.
- because when the alarm is disarmed it is possible to set the sensor in sleep mode, keeping the complete supervision.
- because it has a unique aesthetic - minimalist and discreet different from the rest.
- because unum detectors apply the new ELT Technology (Embedded Lens Technology), which takes advantage from decades of experience in designing professional lens for motion detection purposes, thus enabling to achieve the objective to literally make the lens disappearing from the detector profile, thanks to very sophisticated techniques which also use the same special material of the lens (HDPE), to basically allow it to be fully embedded, completely integrated in the front cover itself;
- because they do not need, unlike other products in the market, to have on their front side all those colored lights (LEDs) which very often the installers need to disable because too annoying for the end-customers;

TECHNICAL DATA

- IR Sensor: Dual Element Digi Pyro
- Power: 1 CR123A Lithium battery included for a maximum battery life up to 4 years
- RF immunity: 20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- White Light Immunity: 6500 lux
- Sensitivity: adjustable at 2 or 3 impulses
- Coverage: adjustable from software or Keypad at 6 or 12 m. range
- Operational Frequency: 868 MHz
- Open Air Range: up to 400 m
- Operative Temperature Range: from +5 °C to +40 °C
- Materials: Base: ABS; Front: HDPE
- Dimensions: 113 x 60 x 45 mm (h x w x d)

PARTS INCLUDED

- 1 unum wls motion detector
- 1 CR-123A battery
- 1 Installation manual

HOW TO ORDER

- KSI5201000.300 - PIR version
- KSI5201100.300 - PIR plus Pet Immune version

ACCESSORIES

- KSI5900000.300 - adjustable bracket for wall mounting
- KSI7203015.000 - Lithium battery CR123-A (200 pcs per pack)

CERTIFICATIONS

Europe - RoHS, CE
EN50131 Grade 2 - Class II
T031:2014

SSF 1014 Larmklass R



FUNCTIONS

unum wireless, is a digital Dual-Optic Motion Detector available in 2 versions, with and without Pet Immunity

The Motion sensor is a **dual PIR Digi Pyro™** with high Quality **EvenEye™** Lens.

Thanks to the Bi-Directional wls Technology, **the range selection (6 or 12 m.) and the number of impulses programmable directly from the basis software with no need of selecting jumpers or annoying dip-switches; furthermore it's possible to modify the configuration with no need to re-open it.**

Additionally, it is possible **to deactivate the PIR sensor when the system is disarmed (default setting) so as to reduce drastically the current consumption** with consequent increase of the battery life.

Instead, with particular reference to Home-Automation applications, it is possible to program the PIR sensor to be always powered.

nebula optical smoke detectors

product code KSF5100001.001 - glass design, wired
KSF5100001.003 - mesh design, wired
KSF5300001.001 - glass design, stand-alone
KSF5300001.003 - mesh design, stand-alone



Detail of separate bases

nebula dal latino significa **nuvola, nebbia.**
nebula derives from Latin means **cloud, fog.**

nebula detectors are optical devices that allows a very quick smoke and fire detection respecting DIN EN 54-7 normative (wired version) or EN14604:2005 (stand-alone version).

Both models are fitted with a separate base available in silver and white. Thanks to the handy bayonet the installation is completed by screwing the detector on the base. There are two versions: the first with silver mesh, the second with circular glass design. Both versions of the device have a red LED for alarm event.

All models are also available in wired version, extremely practice in cabling thanks to the separate base.

TECHNICAL DATA

- **Operating temperature range:** -10 to +60 °C, 95% Humidity
- **Weight:** 320 g (glass design)
160 g (mesh design)
- **Dimensions:** 112x37 mm (glass design)
95x21 mm (mesh design)

41

Stand-alone versions

- **Power Supply:** 9V battery
for a life expectancy up to 10 years

Wired versions

- **Operative range:** 9 - 33 Vdc
- **Consumption:** < 20 µA - 25mA max

PARTS INCLUDED

- 1 nebula Optical smoke detector
- 1 Separate base
- 1 9V Battery (only wireless version)
- 1 Installation manual

HOW TO ORDER

- **KSF5100001.001** - nebula glass design, wired version
- **KSF5100001.003** - nebula mesh design, wired version
- **KSF5300001.001** - nebula glass design, stand-alone version
- **KSF5300001.003** - nebula mesh design, stand-alone version

CERTIFICATIONS

- EN14604:2005 - stand-alone version
EN54-7 - wired version

Radio interface for stand-alone smoke detectors

product code **KSI5003000.300**



TECHNICAL DATA

- **Operative range in open air:** up to 350 m
- **Battery life expectancy:** up to 2 years

HOW TO ORDER

KSI5003000.300

The radio interface allows to enroll the nebula stand-alone detectors to lares systems.

poli Magnetic Contact

product code **KSI5001000.301** - White poli

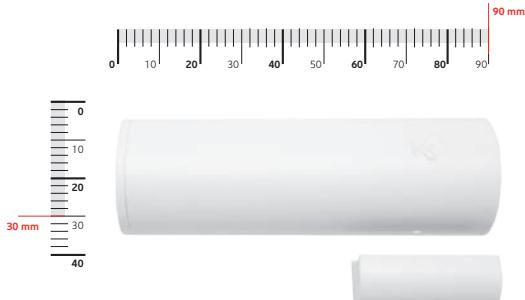
KSI5001000.303 - Grey poli

KSI5001000.304 - Brown poli



42

WIRELESS DEVICES / poli



poli dal latino significa **polo**.
poli derives from Latin means pole.

poli is a wireless magnetic contact with 2 auxiliary inputs, integral part of the 868 MHz Bi-Directional System of Ksenia.

poli is identified, as all Ksenia Security Products, by an unique and exclusive design which develops itself around the Battery volume as the major constraint. It integrates inside 2 programmable inputs which can be used to connect external wired magnetic contacts rather than wired curtain detectors, glass brake detectors and/or wired roller blind detectors, rendering it, as a matter of fact, as a small wireless expansion module (up to 3 zones).

Thanks to its Bi-Directional Communication, the input configuration (type, number of impulses, balance) are programmable directly from the basis software.

As all the other KSENIA wls devices, the poli magnetic contact implements DPMS (Dynamic Power Management System), the possibility to program the supervision time from minimum of 1 minute to a maximum of 240 minutes (default set-up: 5 minutes), the battery status control (with signal warning transmission when its substitution is recommended), and integrates 2 tampers (on the opening and on its removal).

poli is available in 3 colors: White, Brown and Grey to make it suitable to the different installation requirements.

TECHNICAL DATA

- **Power:** 1 Lithium Battery Type CR123A included for a max. duration time up to 4 years
- **Operative Frequency:** 868 MHz Band
- **Inputs:** Nr.2 programmable balanced
- **Range in open air:** up to 400 m
- **Operative Temperature Range:** +5 °C to +40 °C
- **Contact Dimensions:** 30 x 90 x 30 mm (HxWxD)
- **Magnet Dimensions:** 15 x 34 x 14 mm (HxWxD)

PARTS INCLUDED

- 1 poli magnetic contact
- 1 CR-123A battery
- 1 Quick Installation Guide

HOW TO ORDER

- **KSI5001000.301** - White poli
- **KSI5001000.303** - Grey poli
- **KSI5001000.304** - Brown poli

ACCESSORIES

- **KSI7203015.000** - Lithium battery CR123A (200 pcs per pack)

CERTIFICATIONS

Europe - RoHS, CE
EN50131 Grade 2 - Class II
T014A:2013
SSF 1014 Larmklass R

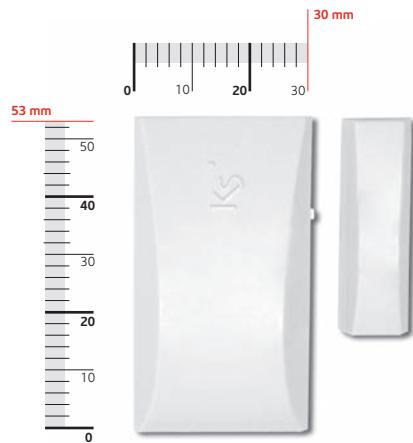


perché poli
why poli

- because it includes the most advanced Wireless Technology, 868MHz, completely bi-directional, professional and reliable.
- because it integrates the DPMS Technology (Dynamic Power Management System) which allows less interferences and extends the battery life.
- because in case of MULTI-RECEIVER system it is able to automatically choose the best radio path.
- because it can manage two independent wired inputs / zones (roller blind and glass break).
- because it integrates a solid state Reed sensor and not a mechanically more fragile glass component.
- because it has a unique aesthetic - minimalist and discreet different from the rest, being the result of many accurate studies and shapes developed around the battery volume.
- because in addition to the white and brown it is available also in gray for installations on stainless steel and aluminium frames.

nanus poli Micro Magnetic Contact

product code KSI5002000.301 - White nanus poli
KSI5002000.303 - Grey nanus poli
KSI5002000.304 - Brown nanus poli



TECHNICAL DATA

- **Power supply:** 1 provided lithium battery CR2032 included for a max life expectancy up to 3 years
- **Operating frequency:** 868 MHz
- **Range in open air:** up to 300 m
- **Operating temperature range:** +5° to +40 °C
- **Contact Dimensions:** 30 x 53 x 10 mm (HxWxD)
- **Magnet Dimensions:** 12 x 36 x 09 mm (HxWxD)

43

PARTS INCLUDED

- 1 nanus poli magnetic contact
- 1 CR-2032 Battery
- 1 Installation Manual

HOW TO ORDER

- KSI5002000.301 - White nanus poli
- KSI5002000.303 - Grey nanus poli
- KSI5002000.304 - Brown nanus poli
-

ACCESSORIES

- KSI7203002.000 - Button battery CR2032 (200 pcs per pack)

COMPLIANCE

Europe - RoHS, CE

poli dal latino significa **pole**.
poli derives from Latin means *pole*.

nanus poli is a wireless micro magnetic contact, integral part of the 868 MHz Bi-Directional System of Ksenia.

nanus poli is identified, as all Ksenia Security Products, by a unique and exclusive design which develops itself around the Battery volume as the major constraint.

As all the other KSENIЯ wls devices, the nanus poli magnetic contact implements DPMS (Dynamic Power Management System), the possibility to program the supervision time from minimum of 1 minute to a maximum of 240 minutes (default set-up: 5 minutes), the battery status control (with signal warning transmission when its substitution is recommended), and integrates a tamper on the opening.

nanus poli has a unique serial number which is being automatically acquired by the system during the installation phase; both the basis programming software and the ergo keypads indicate in real time the signal level of each device and communication path in the case that more BUS Transceivers or Repeaters are present in the same architecture.

nanus poli is available in 3 colors: White, Brown and Grey to make it suitable to the different installation requirements.

perché nanus poli
why nanus poli

- because is almost the smaller magnetic contact in the market
- because it includes the most advanced Wireless Technology, 868 MHz, completely bi-directional, professional and reliable.
- because it integrates the DPMS Technology (Dynamic Power Management System) which allows less interferences and extends the battery life.
- because in case of MULTI-RECEIVER system it is able to automatically choose the best radio path.
- because it integrates a solid-state Reed sensor and not a mechanically more fragile glass component.
- because it has a unique aesthetic - minimalist and discreet different from the rest, being the result of many accurate studies and shapes developed around the battery volume.
- because in addition to the white and brown it is available also in gray for installations on stainless steel and aluminium frames.

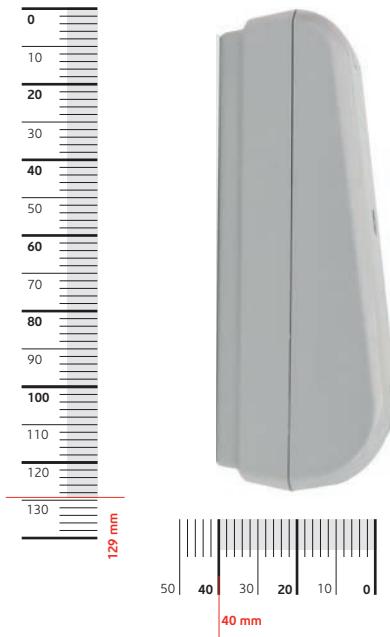
velum wls DT AM

Outdoor Curtain Dual-Technology Motion Detector

product code KSI5402010.303 - velum wls DT AM

44

WIRELESS DEVICES / velum wls DT AM



TECHNICAL DATA

- **Power Supply:** 1 Lithium battery LS14250 3.6 V (½ AA-size) included for a maximum duration of at least 2 years
- **IR sensor:** dual element
- **IR range:** 12 m (room temperature 25 ° C)
- **Warm-up time:** 60 sec
- **Operating Frequency MW:** 24.125 GHz
- **Range MW:** from 0.30m to 12m
- **ANTIMASKING Analysis:** active; infrared LED
- **Thornproof:** mems platform (Accelerometer)
- **Sabotage:** front microswitch
- **Operating Temperature Range:** from -20°C to +55°C
- **Immunity RFI/EMI:** 20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- **White light immunity:** 6500 lux
- **Operating wireless frequency:** 868 MHz band
- **Sight range:** up to 300m
- **Detection area:** only a tent (angle 7.5 °)
- **Horizontal coverage:** IR 90 °, 80 ° MW
- **Vertical coverage:** IR 7.5 °, 32 ° MW
- **Amplitude tent:** a 2 m 25 cm, 130 cm at 10 m
- **Installation height:** 2.10 m from 2.30 max on the wall
- **weigh:** 90 g
- **protection:** IP54
- **Color:** gray

HOW TO ORDER

- KSI5402010.303 - velum wls

ACCESSORIES

- KSI5900003.003 - Rain protection*
- KSI7203627.000 - Lithium Battery 3.6V (½ AA-size) Included

*velum motion detector can be also installed using its protective rain protection hood

Motion detectors velum are under 5 year warranty (3+2)

FUNCTIONS

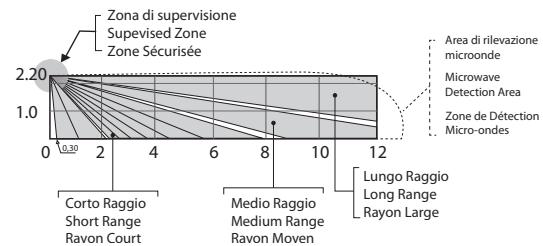
Outdoor curtain velum wls detector is the ideal solution to protect situations such as canopies, porches, below balcony, windows etc. The sensor velum wls is synonymous with reliability and high safety, not only from the qualitative point of view, but also against sabotage attempts, given that integrates a station with accelerometer for wall tamper, flexible and functional even in installations with the bracket and a micro switch for front opening.

The wireless technology used is of the latest generation, fully bi-directional (each device acts as transceiver allowing every transmission to receive a confirmation message, obtaining optimization of consumption and improved reliability compared to traditional mono-directional systems), at 868 MHz frequency band (with FSK modulation).

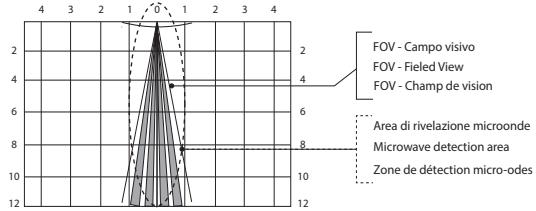
A sophisticated proprietary control of power transmission (DPMS - Dynamic Power Management System) allows to reduce interference, maximize battery life and optimize the transmission power depending on the distance between the devices and the type of installation.

Maximum protection of the entire system is ensured via encryption of each packet communication, using proprietary algorithm. All wireless devices have a unique serial number that is automatically acquired by the system during installation; both on the programming software and on the keyboard of the ergo series are indicated in real time the signal level of each device and the communication path if there are more BUS receivers or any repeaters.

Diagram of visual coverage



Range



velum-C DT AM

Indoor / Outdoor Curtain Dual-Technology Motion Detector

product code **KSI5402011.303** - velum-C wls



TECHNICAL DATA

- **Power supply:** 1 battery pack 3,6 V - 2,7Ah included for a maximum duration of at least 2 years
- **Range:** 6 m (room temperature 25°C)
- **IR sensor:** Dual element
- **Operating frequency uW:** 24.125 GHz
- **ANTIMASKING Analysis:** active infrared LED
- **Thornproof:** Accelerometer
- **Sabotage:** front microswitch
- **Operating temperature range:** from -20°C to +55° C
- **RFI/EMI immunity:** 20 V/m, 10-1000 MHz; 10 V/m, 1-2 Ghz
- **White light immunity:** 6500 lux
- **Operating wireless frequency:** 868 MHz band
- **Sight range:** up to 300 m
- **Detection area:** only a tent (angle from 7,5°)
- **Vertical coverage:** IR 90°, MW 80°
- **Installation height:** from 2 to 6 m on the wall
- **Material housing and clamps:** ABS
- **Dimension:** 129 x 38 x 40 mm
- **Weigh:** 90 g
- **Protection:** IP 54
- **Color:** gray

45

HOW TO ORDER

- **KSI5402011.303** - velum-C wls

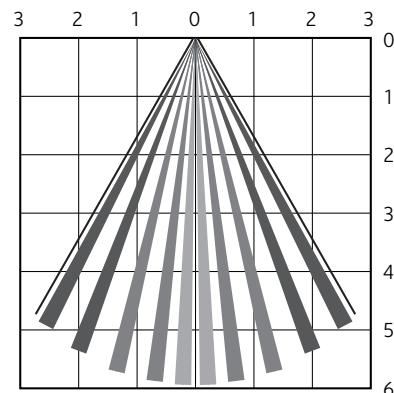
ACCESSORIES

- **KSI7203627.000** - Lithium battery pack 3.6V-2700mA/h

FUNCTIONS

velum-C wls detector is a curtain movement detector that has the same main characteristics as velum wls detector; it can however be installed on the ceiling with a 6m vertical flow.

In this way, positioned at the center of the frame, it ensures its complete coverage, creating an insurmountable barrier to any intruder.



matrix Universal Transmitter

codice prodotto **KSI5003001.300** - matrix

46

WIRELESS DEVICES / matrix



FUNCTIONS

matrix module is a bi-directional universal radio interface for connecting third-party motion detectors to the lares 4.0 platform, at 868 MHz frequency band.

It is power supplied by 1 or 2 or 3 standard CR-123A lithium batteries, it depends on the power consumption of the connected motion detector. The technology implemented makes possible to transform any type of wired detector at low current consumption, in a wireless detector, especially the OPTEX detectors: both BXS-RAM series (detection area: right side and left side) and VXS-RAM / VXS-RDAM (detection area: multidirectional).

Specifically speaking about the OPTEX detectors, the transfer of data between matrix interface and OPTEX detector takes place via the serial link, by connecting the matrix serial port with the OPTEX serial port through the cable supplied.

Thanks to this serial link connection, installers avoid the wiring on the terminal board and, moreover, the whole OPTEX detector configuration can also be performed via any mobile device through APP Ksenia PRO or Ksenia SecureWeb. So that, the switch manual settings of OPTEX are totally forgotten.

For connecting to matrix, all the other third-party motion detectors require electrical wiring of the PCBA terminal board.

perché matrix why matrix

- because it transforms any type of wired detector at low current consumption, in a wireless detector;
- because it is the perfect complement of OPTEX detectors: both BXS-RAM series (detection area: right side and left side) and VXS-RAM / VXS-RDAM (detection area: multidirectional) as it allows remote management (configuration and detailed alarm signalling);
- because it is supplied up to 3 standard CR-123A lithium batteries, able to provide autonomy up to 4500 mAh, to give the user more autonomy in a short time, assuring an optimum replacement times.



auxi wls bi-directional wireless module 2 outputs + 2 inputs 868MHz

product code **KSI2300002.300** - auxi wls



TECHNICAL DATA auxi wls

- Power supply: 110 -230 VAC 50-60Hz
- Operative range: 868 MHz
- Operative range in open air: up to 150 m
- Inputs: Nr. 2
- Outputs: Nr. 2 (5A 250Vac - 5A 30Vdc)
- Operative temperature range: -20 to + 55 °C
- Dimensions: 42 x 35 x 20 mm
- Protection class: IP20

47

PARTS INCLUDED

- 1 PCBA Module
- 1 Plastic case
- 1 Installation manual

HOW TO ORDER

- KSI2300002.300 - auxi wls module

COMPLIANCE

Europe - CE , RoHS

FUNCTIONS

auxi wls is a wireless module with 2 inputs and 2 outputs on board. Powered directly from the mains, auxi wls is ideal for the remote control of lights, home automations (such as roller blinds and curtains) and, generally, any load unreachable by cables.

auxi wls can be used in conjunction with lares Control Panels or as a stand-alone device. In the second case, the outputs can be controlled locally (using the inputs on board) or remotely (using the opera remote control). Up to 32 different remote controls can be enrolled for each auxi wls.

His compact size allows to fit it in small spaces such as DIN503 wall boxes (1 slot)

Additionally to the Mono-stable or Bi-stable modes, outputs can be configured as follows:

- 2 independent outputs: each output can be managed as single
- Change over switch: once the first output closes, the second one opens (useful to replace outputs already installed)
- Interlocked: useful to manage automatic roller blinds (there is a delay before the closing of the output)



Ksenia
security innovation

imago wls Outdoor Siren

product code **KSI6401000.3XX** - imago wls, different colors



48

WIRELESS DEVICES / imago wls



The **imago** wireless outdoor Siren is an acoustic and optical professional alarm that combines an unique, extremely compact and slim design (its maximum thickness is 6 cm.) with an advanced technology to obtain the best possible performance with the highest energy saving: high sound pressure, 1W LED blinder and auxiliary high-efficiency high efficiency warning LED.

COMPLIANCE

Europe - RoHS, CE

TECHNICAL DATA

- Modern Design with original and convenient rotating opening
- Solid PC housing (minimum thickness 3 mm.) with anti-UV pigment
- Front available in different colors
- Transparent base available in different colors: orange, red and blue
- Strong metallic zinc-plated under-cover (anti-smashing)
- High acoustic power piezoelectric Buzzer (>100dBA @ 1m)
- Protective and insulating treatment of the PCB (conformal coating)
- Power Supply: 9V(min.) - 13.8V (max – power supply not included)
- Rechargeable Backup battery: 6Vdc – 1,2Ah (not included)**
- Un-rechargeable Main battery: 7,5Vdc – 8Ah non-reloadable (not included)**
- Operative temperature range: -10° +55°C 95% humidity

- Protection class: IP43
- Dimensions: 195 x 330 x 60 mm
- Weight (without battery): Kg 1.200
- Wireless bi-directional communication; 868MHz frequency
- RF Range: 300 m. in open air
- Supervision for wireless diagnostic (programmable)
- Temperature sensor (excludable)
- Temperature thresholds managing (programmable)
- Management of the maximum duration of the alarm (programmable)
- Alarm output configurable as Bistable or Monostable
- Power LED output configurable as Bistable or Monostable
- Auxiliary LED output configurable as Bistable or Monostable
- Acoustic signals of RF level OK

PARTS INCLUDED

- 1 Siren complete with PCBA and metal undercover
- Sets 6 mm Dia. Bolts & Nuts
- Installation manual

OPTIONALS

- KSI7207580.000** - Alkaline battery 7,5V/8Ah non-rechargeable

HOW TO ORDER

Ksenia finished product:

- KSI6401000.3XX*** - imago wls

(*) The code suffix 3XX indicates the different color option.
e.g. 318 Is the code for a white cover with red bottom imago.

Ksenia covers only:

- KSI6901000.3YY**** - cover only (both versions)

(**) The code suffix 3YY indicates the different color option.
e.g. 340 Is the code for a beige cover.

Ksenia bottom only:

- KSI6900000.30Z***** - bottom only (both versions)

(***) The code suffix 30Z indicates the different color option.
e.g. 307 Is the code for an orange bottom.

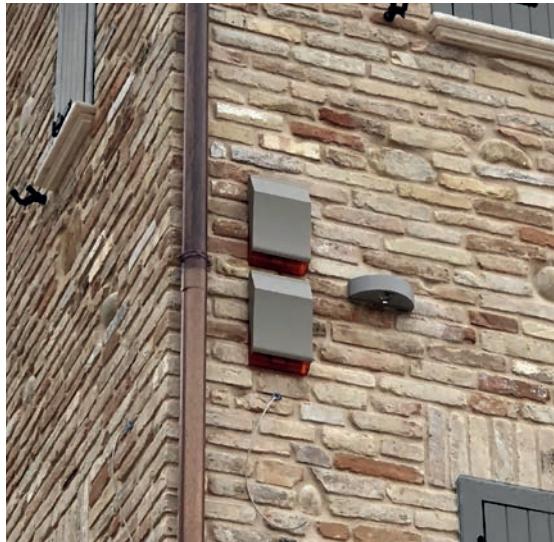
Available colors codes

Covers



Bottom





The Siren is handled by two microcontrollers:

- Main process microcontroller
- Communication microcontroller

imago wireless can use 2 different power supply systems:

- A proprietary 7,5V 8Ah battery pack, not rechargeable (that will must be replaced once discharged) separately sold as optional;
- External power supply (12Vdc) with 6V 1,2Ah backup acid lead battery

The status of the batteries charge and, if present, the level of external power supply are constantly monitored. Every power supply or battery failure or disconnection is reported to the main system.

imago wireless is equipped with a temperature sensor and communicate to the panel:

- the temperature value
- the programmed thresholds.

imago wireless can measure the level of RF signal reception. During the maintenance, if the siren is placed in a good wireless reception spot, imago beeps at each variation of the Tamper Switch.

imago wireless also presents protections:

- keep alive periodic signal
- Anti-opening and anti-removal tamper

Every communication from the imago wls to the main system will be repeated until acknowledged. Despite of its extremely small size, imago hides a sturdy metal lid-Chamber; also, the plastic material involved (high quality polycarbonate with UV protection) and the sophisticated design, guarantee durability in all weather conditions.

The imago wireless siren has two protections: against opening the device and against forced removal from the wall on which was fixed (two switches in series). The siren constantly checks the status of these two switches and their eventual opening will be communicated to the lares. Then, subject to programming, lares may require the activation of acoustic and luminous signals to report the attempted sabotage.

Using imago wireless powered with main battery (7,5V - 8Ah), the lifetime expectancy is up to 3 years in the following conditions:

- 4 daily cycles of turning on the auxiliary LEDs;
- Supervision interval programmed at 5 minutes;
- 1 monthly alarm cycle of 5 minutes each and 4 test alarm cycles;

Notes:

1. At temperatures below -5° C the siren may give a "wrong battery" message
2. Working below -5°C significantly reduces battery life
3. Replace the battery pack using only the model KSI7207580.000
4. A battery can explode if handled incorrectly – do not recharge, open or throw on a fire



Alkaline battery pack

duo BUS Transceiver / Repeater

product code **KSI2600000.310** - for KS-BUS only



50

WIRELESS DEVICES / duo BUS



TECHNICAL DATA

- Power: 13,8 Vdc
- Consumption: max. 50mA
- Operative Frequency: 868 MHz Band
- Range in open air: up to 400 m
- Max. WLS Device Nr.: 64
- I/O Terminals: 2
- Wireless Zones: max. 128
- Operative Temperature: +5°C to +40 °C
- Dimensions: 140 x 100 x 28 mm (L x H x P)

PARTS INCLUDED

- 1 Transceiver / Repeater duo (PCBA)
- 1 Slim Case with screw
- 1 Quick Installation Guide

HOW TO ORDER

- **KSI2600000.310** - KS-BUS Version

ACCESSORI

- **KSI7207008.000** - Lithium-Ion Battery 7,4 Vdc-850 mAh
- **KSI7302000.010** - Plastic box "slim" version

CERTIFICATIONS

Europe - RoHS, CE
EN50131 grade 2 - Class II
T031:2014
SSF 1014 Larmklass R



duo dal latino significa **doppio**.
duo derives from Latin means **double**.

Each **duo BUS** version enables to expand any Control Panel of the lares series by giving the opportunity to link up to 64 wireless Devices for a total of max. 128 wireless zones and up to 20 remote controls. On the same BUS it is possible to link up to 2 transceivers for both expanding the wireless signal coverage and for acting contemporary as a back-up of the other.

duo can also work as a Signal Repeater simply powering it up.



duo board in the slim plastic case

perché duo
why duo

- because it can work both in Transceiver mode (wired on KS-BUS or in Repeater mode (simply powering it up it extends the signal range).
- because it integrates the MULTI-RECEIVER technology, i.e. up to 2 devices and 2 repeaters can be included in the same Architecture.
- because in case of MULTI-RECEIVER system, the connected wireless devices are able to automatically choose the best radio path.
- because the REPEATER needs to be connected only to the +12Vdc, not to the BUS and it can integrate a Lithium-Ion battery which in case of black-out is able to guarantee at least 12 continuous hours coverage.
- because it can manage up to 64 wireless devices and max 128 wireless zones.

universal duo Transceiver / Repeater

product code **KSI2600001.310** - universal duo



TECHNICAL DATA

- Power: 13,8 Vdc
- Consumption: max 50mA
- Operative Frequency: 868 MHz Band
- Range in open air: up to 400 m
- Max. WLS Device Nr.: 32 Devices
- Wireless Zones: max 96
- Operative Temperature:+5°C to +40°C
- Dimensions: 140 x 100 x 28 mm (L x H x P)

51

PARTS INCLUDED

- 1 Transceiver / Repeater universal duo
- 1 Slim Case with screw
- 1 Quick Installation Guide

HOW TO ORDER

- **KSI2600001.310** - universal duo

ACCESSORIES

- **KSI7302000.010** - Plastic box "slim" version

COMPLIANCE

Europe - RoHS, CE

FUNCTIONS

The bi-directional universal receiver duo univ allows the use of wireless peripherals of Ksenia Security with any control panel or similar devices: this installation is possible thanks to 8 programmable outputs present on the device. The number of outputs can be increased up to 18 using auxi or auxi-relay modules.

MAIN FEATURES

- Up to 18 programmable outputs: 8 outputs on the duo univ, up to 2 expansion modules auxi/auxi relay, each with 5 programmable outputs.
- Up to 32 wireless sensors configurable (poli, nanus poli, unum wls, nebula)
- Configurable with up to 8 opera remote controls which activate specific outputs or change the system status (armed, disarmed, partially armed)
- Up to 15 groups (partitions) to be associated with one or more of the wireless sensors enrolled to the system, each group is linked to a specific output
- System programming and monitor via LCD ergo Keypad
- Multi-language programming menu
- Configuration data stored in non-volatile memory
- 3 Status LEDs



duo board in the slim plastic case

KSEНИЯ PROFESSIONAL WIRELESS TECHNOLOGY

52

KSEНИЯ PROFESSIONAL WIRELESS TECHNOLOGY

The Ksenia Wireless devices implement a new generation technology full of innovative solutions.

First of all, they use an 868 MHz frequency band in FSK technology. This allows a better reception and transmission than the old 433 MHz transceiver systems. Furthermore the higher frequency allows to dispose of a shorter wavelength and then of smaller devices dimensions.

The use of a completely bi-directional system it is also mandatory, not only about the transceiver, but for any kind of device, including the remote control.

This responds to the need to monitor each device in order to notice their possibly disappears and/or sabotages and it also contributes at the system strength in terms of disturbs immunity: the missed answer to the diagnostic must generate an alarm that must be properly managed.

Despite what is commonly stated, if it is used by an intelligent system, the bi-directionality contributes to the power optimization, maximizing the system reactivity and its strength. For example, every time the sensor detects an alarm event it immediately starts transmitting without waiting for system request.

A sophisticated transmission power management system (DPMS - Dynamic Power Management System) furthermore allows to reduce the interferences, maximize the battery life and optimize the power consumption related to the devices distances.

By adopting the "MULTI-RECEIVERS" system, simply powering it up, it is possible to use the transceiver as a signal repeater, allowing to expand its coverage.

Furthermore, it obtains a back-up solution providing a rechargeable Lithium-Ion battery, also in case of prolonged absence of power. Professional Security in all conditions.

In case of more transceivers installed in the same architecture, the system dynamically and automatically determines what is the best way in the communications between itself and the sensors.

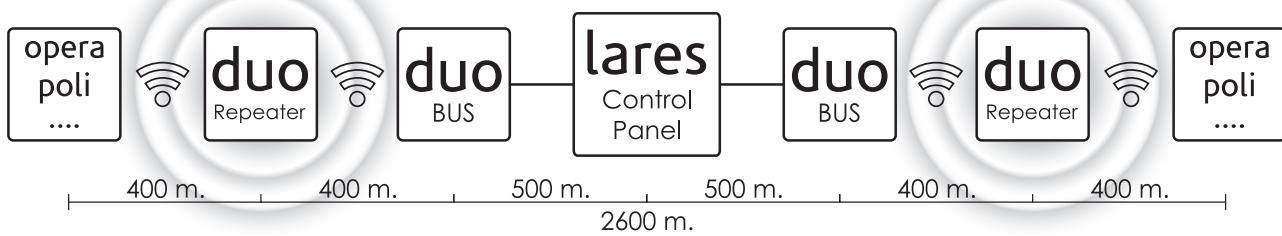
That means eliminate any configuration or manual test for determine what is the best way that has to be used by the devices to communicate with the transceivers.

The key advantage is, for every single wireless host, the possibility to hook up to the transceiver wired to the BUS or linked to the Repeater in full transparent mode, both from an host and from a system stand point of view.

This enables the wireless range extension and contemporary realizes the concept of redundancy.

Maximum protection of the system is guaranteed by encryption, using proprietary algorithm of each communication packet.

All the Ksenia Security wireless devices have developed and integrated all the aforementioned technologies and have a univocal serial number which is automatically acquired in installation phase by the system; each device's signal level and his communication way (in case of Multi-Receiver installation) will be indicated both on basis programming software and ergo Keypad display.



Example of the maximum configuration with lares hybrid.
Operating ranges in open air.



I Dispositivi wireless

Sono stati progettati con le seguenti caratteristiche per ridurne l'impatto ambientale

1. Plastiche senza PVC
2. Laminati senza Alogeno e circuiti stampati senza piombo
3. Basso assorbimento, in modo da minimizzare la necessità di sostituzione delle batterie
4. Imballo realizzato per la maggior parte con fibre riciclate e materiali provenienti da fonti rinnovabili

Wireless devices

have been designed and manufactured for the environment as follows:

1. Absence of PVC
2. Halogen free laminates and lead-free PCBA
3. Low current consumption, in order to increase the battery life and minimize its replacement
4. Packaging realized mainly with recycled fibers and materials



Ksenia

security innovation

A close-up photograph of a white, cylindrical Ksenia smart lock. The device has a sleek, modern design with a circular base and a slightly recessed top. In the background, there are faint, handwritten-style numbers '189' and some architectural sketches, possibly blueprints, which provide a historical context to the modern technology shown.

ergo-T, ergo-T plus,
ergo S, ergo, ergo M,
volo, volo in

USER INTERFACES

Keypad ergo-T

product code KSI2100040.302 - ergo-T

56

USER INTERFACES / ergo-T



TECHNICAL DATA

IP interface: PoE - 13W max
Power supply: 10 -15Vdc, 700mA max
Display Capacitive Touch: 7" TFT
Resolution: 1920x1200 (FHD)
Dimensions: 187x110x 341 mm
CPU: Rockchip 3368 Octacore
GPU: Mali-400MP GPU
Operating System: Android 7.0
RAM: 2 GB
Nand Flash: 8 GB
SD Card Slot: max 32 GB

PARTS INCLUDED

1 ergo-T keypad
1 attachment bracket
2 screws for DIN 503 box

HOW TO ORDER

- KSI2100040.302 - ergo-T

COMPLIANCE

Europe CE - RoHS

ergo dal latino significa **ebbene, allora, dunque.**
ergo derives from Latin and means *then, therefore, at last.*

ergo-T and **ergo-T plus** are the touchscreen keypads of latest generation, the ideal command and control interface of lares 4.0 control panels.

Unlike all the typical touchscreen products of the Security market, **ergo-T** and **ergo-T plus** differ in a contrast and a resolution comparable to that of the end-user devices, thus closer to the everyday end-user experience.

They do not communicate to the panel via BUS, they use the network port instead. In this way, not only is it possible to manage all the various functions related to Intrusion Security, but also the functions of Video Surveillance, Access Control, up to what is today defined as Home Automation or Smart Home in general (i.e. management of the various automations, lights, temperatures, motorized shutters, appliances, irrigation, etc.).

Even though they use the network port, **ergo-T** and **ergo-T plus** are recognized by the control panel with a fast acquisition process with no need of any configuration on the router; furthermore, they can be supervised by the panel like a normal keypad on BUS.

ergo-T and **ergo-T plus** have a graphic interface in line with lares 4.0 mobile application: this guarantees the same user experience to the end-user, whether he manages the panel locally or remotely.

They are easily customizable by the user both in the theme (light or dark) and in the use of 6 favourite commands which can be directly put in the dashboard.

Moreover, they comply with any need of installations: in residential environments, they can be used to get access to all Smart Home functions without the need to enter the PIN code, that is required only

for the activities related to Security; in commercial environments, they can be used in protected mode, therefore it is possible to surf through the various available functions only entering a valid user PIN.

ergo-T and **ergo-T plus** have an ideal position in any round wall-mounting box (60 mm pitch) or DIN 503 and can be powered with 12V or with PoE (Power over Ethernet).

The keypads are available in 7" (**ergo-T**) and 10" (**ergo-T plus**) size.

perché ergo T & T plus *why ergo T & T plus*

- because they have a resolution of 1920x1200 pixels both in 7" and 10" size
- because they allow to manage the control panel in complete security with a user experience that is very similar to that of mobile app
- because they have a customizable graphic interface both in theme and in the 6 favourite functions
- because they allow to see the cameras connected to the system without the need of additional devices
- because they make you manage all Smart Home functions comfortably
- because they can be powered both with 12V and PoE port

Keypad ergo-T plus

product code KSI2100041.302 - ergo-T plus

TECHNICAL DATA

IP interface: PoE - 13W max
Power supply: 10 - 15Vdc, 700mA max
Display Capacitive Touch: 10" TFT
Resolution: 1920x1200 (FHD)
Dimensions: 243 x 172 x 343 mm
CPU: Rockchip 3368 Octa core
GPU: Mali-400MP GPU
Operating System: Android 7.0
RAM: 2 GB
Nand Flash: 8 GB
SD Card Slot: max 32 GB



PARTS INCLUDED

1 ergo-T plus keypad
1 attachment bracket
2 screws for DIN 503 box

HOW TO ORDER

- KSI2100041.302 - ergo-T plus

COMPLIANCE

Europe CE - RoHS



① Power supply 13,8 Vdc

② 10/100 T + PoE ethernet connection

③ Fastening

④ Fastening plate for DIN 503 and round (pitch 60 mm) boxes

⑤ Fixing screws



Keypad ergo S

Product Code KSI2100020.301 - ergo S white
KSI2100020.302 - ergo S black



TECHNICAL DATA

- Wide Dot matrix LCD display: viewing area 79 x 19 mm
- Keys in Capsense Technology: no mechanical press-buttons
- Circular Scroll: fast access to the menu
- Available in The Ksenia colors black and white
- Proximity reader RFID / NFC
- Integrated Microphone and Speaker
- Remote listening function
- Accurate Temperature sensor
- Adjusting backlight and contrast
- Fast Addressing System: no need to pre-set the device address (automatic recognition from the control panel / GSM communicator)
- Master programming for gemino and duo universal

NOTE: Hardware includes a NFC Ready transceiver. You may need to use a dedicated application. (NOT INCLUDED)

HOW TO ORDER

- KSI2100020.301 - ergo S white
- KSI2100020.302 - ergo S black

CERTIFICATIONS

Europe - CE, RoHS
EN50131 grade 3 - class II
T031:2014
SSF 1014 Larmklass 3



Isn't this the Keypad we were all waiting for?

Finally, a clear and simple Keypad, beautiful and useful also as programming tool, it incorporates a proxy reader with NFC Technology, with no mechanical parts, versatile, modern, thin (less than 13 mm), it can be placed in every interior design.

An extremely versatile Keypad, suitable for any type of architecture, with a clean, simple and minimalist style.

The Keypad, characterized by a larger graphic display and easy to read, boasts a type of advanced use, thanks to CapSense Technology which does not provide any mechanical key, preferring a delicate tactile sensitivity.

The ergo S is synonymous with innovation, beauty and attention to detail, without neglecting the strong functional component: it allows you to view the System status, the operating parameters, control the whole System, and much more.

Moreover, it also allows to program the GSM communicator with extreme rapidity and simplicity.

The Keypad is available in two colors, white or black, with a glossy and modern finish.

NEAR FIELD COMMUNICATION

MAIN FUNCTIONS

- Display of System status
- Display of operating parameters: date / time, GSM network active level GSM, etc.
- System Commands: complete or partial arming, reset, activation of output terminals, telephone calls, etc.
- Full Programming of System Parameters / Central
- Programming local parameters: audio volume, backlight level and LCD contrast
- keyboard functionality Exclusion for front cleaning purposes
- Remote Listening
- Voice messages recording
- RFID/NFC Tag reading to arm, and disarm and manage lares devices
- High Precision temperature sensor.

Keypad ergo

Product Code KSI2100000.300 - ergo



TECHNICAL DATA

- LCD Display 16x2 (visible area 61x16mm)
- "CapSense" Technology (no mechanical press-buttons)
- Circular Scroll / quick menu access
- Available in 4 different colors
- RFID / NFC Proximity Reader
- Integrated Microphone and Speaker for remote listening
- "Fast Addressing System" no need to pre-set the device address (automatic recognition from the Control Panel/GSM Communicator)
- 2 programmable inputs/outputs

59

MAIN FUNCTION

- Display of system status
- Display of functioning parameters: date/time, active GSM network, GSM level, etc
- System commands: complete or partial arming, reset, activation of outputs terminals, phone calls, etc.
- Programming of system parameters
- Programming of local parameters (audio volume, backlight levels)
- KP functionality exclusion for front cleaning purposes

USER INTERFACES / ergo

CERTIFICATIONS

Europe - CE, RoHS,
EN50131 Grado 3 - Classe II
T031:2014
SSF 1014 Larmklass 3



Isn't this the Keypad we were all waiting for?

CAPSENSE Keypad

ergo is a very advanced LCD Keypad carefully developed with the objective to capture a modern, minimalist and discreet style and an extremely slim profile (less than ½ inch.), which allows it to be positioned in any interior architecture thus expressing a new feeling of design, prestige and innovation.

Thanks to the "CapSense" Technology, here you won't see any of the ugly mechanical parts (like as membranes, buttons, plastic cover, etc.) which are typically available in other products and that are often the ideal dust location and the source of bad contacts. In the case of ergo the front is completely smooth and all desired functions can be implemented by simply touching upon the surface in the areas shown by the graphic (letters, symbols, circular-scroll mouse) in a very simple and rational manner. All available functions, as detailed below, are really a lot and surprising.

It can be customized in the 4 different Ksenia colours (White, Black, Red and metallic Grey), simply by removing the transparent cover and interchanging the internal cover (Lexan) with one of those included in the package envelope, such operation is meant to be so easy and safe that can be done by the end-user at any time.

Moreover, with no need of additional parts, it can be "flush-mounted" taking advantage of any std. box DIN 503, or just as it is on any wall (with no need of additional parts) or if desired even the desk-solution can be chosen thanks to the included stylish sustainer parts.

The ergo Keypad has been conceived not only to be linked to a Ksenia Intrusion Control Panel, but even to the Universal GSM/GPRS Communicator gemino, since, differently to other similar devices, it works also as "programming unit", making the installer's life much easier by avoiding the need of having a PC with for the Communicator programming.

HOW TO ORDER

KSI2100000.300 - ergo keypad



Keypad ergo M

Product Code KSI2100021.301 - ergo M White
KSI2100021.302 - ergo M Black

60

USER INTERFACES / ergo M



Isn't this the Keypad we were all waiting for?

Finally a clear and simple Keypad, beautiful and useful also as programming tool, it incorporates a proxy reader with NFC Technology, with no mechanical parts, versatile (you can change colour in 3 seconds with a 'click'), modern, thin (less than 13 mm), it can be placed in every interior design.

MECHANICAL KEYPAD

The ergo Keypad has been conceived not only to be linked to a Ksenia Intrusion Control Panel, but even to the Universal GSM/GPRS Communicator gemino, since, differently to other similar devices, it works also as "programming unit", making the installer's life much easier by avoiding the need of having a PC with for the Communicator programming.

ergo M is laser-routed and mounts high quality switches to improve reliability.

We designed a custom display for having a large display area, and adjustable contrast and backlight. This display can show all character sets, including the Greek and Cyrillic, because of dot matrix technology. The total thickness of the devices is of only 14.5 mm. ergo M are both available in White and Black.

MAIN FEATURES

- Display LCD dot matrix (visible area 79x19 mm)
- mechanical press-buttons (laser-routed)
- Available in The Ksenia colors black, white
- Integrated Speaker.
- Adjust backlight and contrast
- Fast Addressing System: no need to pre-set the device address (automatic recognition from the Control Panel/GSM Communicator)
- Master to programming for gemino and universal duo

MAIN FUNCTIONS

- Display of System status
- Display of operating parameters: date / time, GSM network active level GSM, etc.)
- System Commands: complete or partial arming, reset, activation of output terminals, telephone calls, etc.
- Full Programming of System Parameters / Panel
- Programming local parameters: audio volume, backlight level and LCD contrast
- Voice messages recording

CERTIFICATIONS

Europe - CE, RoHS,
EN50131 Grade 3 - Class II
T031:2014



perché ergo S ergo M why ergo S ergo M

- because is a very advanced LCD Keypad carefully developed with the objective to capture a modern, minimalist and discreet style as well as an extremely slim profile (less than 1/2 inch.), which allows it to be positioned in any interior architecture thus expressing a new feeling of design, prestige and innovation.
- because with no need of additional parts, it can be "flushmounted" taking advantage to any std. box DIN 503, or just as it is on any wall (with no need of additional parts)
- because it can be used also to program the gemino GSM/GPRS Communicator and to record "personalized" messages to be associated to any alarm event.
- because it uses cutting edge Technologies components, such as a digital mems (accelerometer) microphone.

HOW TO ORDER

Product Code KSI2100021.301 - ergo M White
KSI2100021.302 - ergo M Black



MAIN FEATURES	ergo M	ergo	ergo S
Wide Dot matrix LCD display (viewing area 79 x 19 mm)	●	○	●
Keys in Capsense Technology	○	●	●
Mechanical Keys	●	○	○
RFID/NFC proximity Reader (20 mm max TAGs capture area)	○	●	●
Integrated Microphone and Speaker	○	●	●
Remote Listening function	○	●	●
"Fast Addressing System" *	●	●	●
Accurate Temperature sensor (future use)	○	●	●
Adjusting backlight and contrast	●	○	●
Master programming for gemino and duo UNIVERSAL	●	●	●
Power supply	13,8 Vdc		
Consumption	15 mA standby 100 mA max		
Operating temperature range	+5°C / +40° C		
Overall dimension	163 x 119 x 14,5 mm	105 x 145 x 25 mm	163 x 119 x 14,5 mm
Weight	240 g	180 g	240 g
Protection degree	IP 34		
White version	KSI2100021.301	KSI2100000.300	KSI2100020.301
Black version	KSI2100021.302	**	KSI2100020.302
Certification	EN50131 Grado 3-classe II T031:2014 SSF1014 Larmklass 3***		

* "Fast Addressing System": no need to pre-set the device address

** Available in the 4 Ksenia main colors: white, black, grey and red. The inner colored interface masks are included one for each colors. Product Code KSI2100000.300

***Certification valid for ergo and ergo S keypads only.



Proximity readers **volo**

product code KSI2200000.300 - volo black
KSI2200000.310 - volo white

62

USER INTERFACES / volo



MAIN FEATURES

- Power Supply: 13.8 Vdc
- Consumption: 40mA
- RFID: ISO 14443 (A+B) @ 13.56MHz
- Dimensions: 127x43x17 mm

PROGRAMMING

volo can be connected to the 4-wires KS-BUS and can be programmed directly from the Control Panel.

CERTIFICATIONS

Europe - CE, RoHS,
EN50131 Grade 3 - Class II
T031:2014
SSF 1014 Larmklass 3



volo dal latino significa **volare, muoversi rapidamente**.
volo derives from Latin and means fly, move quickly.

volo is a device that allows, being linked on the KS-BUS, the user to manage the arming / disarming of the Ksenia Security System and more in general the activation/ deactivation of different scenarios programmed in terms of Home Integration, by means of mini-Tags and/or NFC-enabled smart-phones.
It can be installed either directly onto the wall (in vertical) or screwed onto the Box DIN 503 (with an optional black frame).

The device is fitted with an LED with 5 colors (red, green, blue, yellow, white) and each of them can be associated to a customizable scenario. It is very simple to activate a scenario: approaching a valid Tag or NFC-enabled Phone to the Proxy Reader, the LED will switch on the color associated to the possible scenario, proposing automatically the most probable choice at first. To activate the desired scenario take the Tag or the Phone away when the LED is lit of the color related to that scenario: as acknowledgement the LED will remain ON with the same color for other 3 seconds.

Its sober design allows the volo to be installed in every interior design. This device has been developed with an innovative tamper protection (against wall removal and opening): an accelerometer. This allows to avoid any mechanical switch and the related risk of deterioration, moist infiltration in Outdoor and to use it as a seismic detector with programmable sensitivity. Its plastic enclosure and the PCB protection treatment (full immersion in epoxy resin) allow its Outdoor Installation without additional protection.

PARTS INCLUDED

- volo proximity reader with a 2 meters long cable
- Quick Installation Guide
- 2 Fischer screws, diameter 5mm.

HOW TO ORDER

- KSI220000.300 - volo black
- KSI220000.310 - volo white



Pocket Mini-Tag

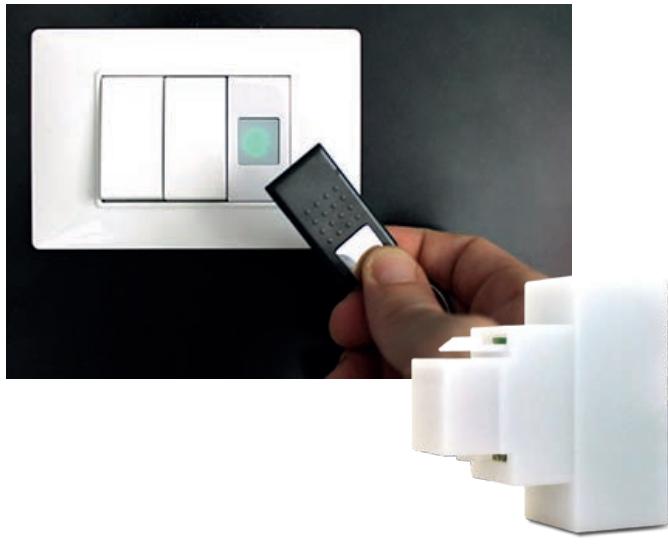
ACCESSORIES

- KSI2200001.300 - Optional frame for DIN 503 mounting. Color black
- KSI2200001.310 - Optional frame for DIN 503 mounting. Color white
- KSI7600000.000 - Mini-Tag in black color with metal key-holder ring.



Proximity readers **volo-in**

product code **KSI2200002.300** - **volo-in**



Scenarios identification multicolor LED: ○

MAIN FUNCTIONS

volo-in is a proximity reader with NFC Technology.



volo-in is a proximity reader for indoor with acoustic signal / light evidence, directly connected to the BUS Ksenia, the management of an entry / disarm the system intrusion Ksenia Security or, more generally, the activation / deactivation of Nr. 5 scenarios programmed in optical automation, using the approach of the mini-tags enabled

The device uses the standard slot RJ45 jack to be added to any provision of any supplier of devices housed in standard box 503.

The device has a multi-color LED (red, green, blue, yellow, white) which can be associated with a scenario freely programmable. It is very easy to activate a scenario: just bring a valid key to the reader, wait until the feedback (LED light of the scenario turns on), and remove the key.

To make up for unusual light conditions (overexposure), and to come in against the needs of users "Visually Impaired", it is possible to assign a different acoustic signal to all operations.

volo-in is equipped with a multi-tone buzzer to confirm the operations. To make it UNIVERSAL for all major plates, **volo-in** takes advantage from the standard square profile socket arising from the RJ45 Keystone socket used in a standard patch panel and other items of equipment. As such, the RJ45 flush socket will fit a standard pattern wall plate, normally designed for light switches from several manufacturers.

PARTS INCLUDED

- **volo-in** proximity reader
- Quick Installation Guide
- 2 Fischer screws, diameter 5mm
- 2 mini-TAG Ksenia

HOW TO ORDER

- **KSI2200002.300** - **volo-in**

ACCESSORIES

- **KSI7600000.000** - Pocket Mini-Tag in Black color with metal key-holder ring.



Pocket Mini-Tag





LE INTERFACCE UTENTE

Sono state progettate con le seguenti caratteristiche per ridurne l'impatto ambientale:

- Assenza di PVC
- Laminati senza alogenri e circuiti stampati senza piombo
- Display LCD senza mercurio
- Vetro dello schermo privo di arsenico
- Basso assorbimento
- Imballo realizzato per la maggior parte con fibre riciclate e materiali provenienti da fonti rinnovabili

USER INTERFACES

Are been designed and manufactured for the environment as follows:

- Absence of PVC
- Halogen free laminates and lead-free PCBA
- LCD Display without Mercury
- Arsenic-free glass
- Low consumption
- Packaging realized mainly with recycled fibers and materials



Ksenia

security innovation



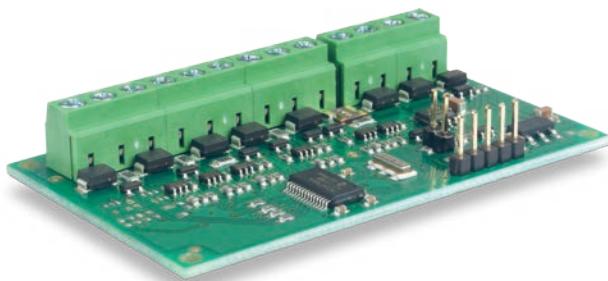
BUS PERIPHERALS

auxi Expansion module

product code **KSI2300000.300** - auxi PCBA

66

BUS PERIPHERALS / auxi



TECHNICAL DATA

- **Voltage:** 13.8 Vdc
- **Current consumption:** 20 mA (excluding terminal P and outputs)
- **Analog input 1** @ 0 – 10 V
- **Alarm inputs:** Up to 5 (with programmable EOL)
- **Analog output 1** @ 0 – 10 V, 20 mA (with 5 customizable terminals)
- **Open Collector outputs:** Up to 5 da 500mA each
- **Power terminal:** 0,5 A (protected by a self-restorable thermal fuse)
- **PCBA dimension:** 75x45x16 mm (lxhxp)

PARTS INCLUDED

- 1 auxi expansion module (PCBA)
- 4 sustainers for metal cabinet's mounting
- 1 Installation Manual

HOW TO ORDER

- **KSI2300000.300** - PCBA auxi

ACCESSORIES

- **KSI7300000.001** - Plastic box for DIN rail
- **KSI7302000.010** - Plastic box "slim" version

CERTIFICATIONS

Europe - CE
EN50131 Grade 3 - Class II
T014:2013
SSF 1014 Larmklass 3



auxi dal latino significa accrescere, aumentare, potenziare.
auxi derives from Latin and means to increase, to potentiate.

auxi enables to increase up to 5 (or multiples with multiple modules) the numbers of programmable inputs (outputs) of the gemino GSM/GPRS Communicators and of the lares integrated Control Panels.

auxi configuration into the system is very fast, no need to configure any dip-switches: auxi will be automatically acquired by gemino or lares and identified univocally with its serial numbers that you can find impressed on the PCBA label.

Its dimensions allows its insertion within a standard DIN 503 box for wall mounting or alternatively into the plastic "slim" box (Ksenia p/n KSI7302000.010) or into the metal cabinet (Ksenia p/n KSI7401000.010).

HOW TO PROGRAM

auxi is to be linked to gemino or lares through the 4 wires KS-BUS and has 5 terminals which can be configured as programmable inputs with End-of-Line resistors or OC outputs at 500 mA. One of the five terminals can be configured as analog input 0-10 Vdc while one of them as 0-10 Vdc analog output (only with lares panels).

auxi incorporates a non-volatile memory of the terminal programs which limits to 1000 times the number of re-programmings of the terminals in order to guarantee their correct functioning. The programming of the terminal functions (either input or output) are implemented during the programming of gemino or lares.

perché auxi
why auxi

- because with the same expansion module you can either increase the number of zones of the Control Panel or increase up to 10 the number of programmable inputs (outputs) of gemino expandable;
- because it is automatically and univocally configurable by means of its serial number: forget about having to adjust dip switches or assign addresses to them;
- because it is very small and therefore can be installed inside the wall within a standard DIN503 box;
- because all its 5 terminals can be programmed as Open Collector outputs up to 500 mA each;
- because all its 5 terminals can be programmed as inputs with EOL resistors;
- because 1 of its 5 terminals can be programmed as analog input 0-10 Vdc (only for lares Control Panels);
- because 1 of its 5 terminals can be programmed as analog output 0-10 Vdc (only for lares Control Panels).

auxi 10in Expansion module

product code **KSI2300003.300** - auxi 10in PCBA



TECHNICAL DATA

- **Voltage:** 13,8 Vdc
- **Consumption:** 20 mA
(excluding terminal +P1 e +P2)
- **Analog input:** 1 @ 0 – 10V
- **Up to 10 alarm inputs**
(programmable EOL)
- **Power terminal:** 2 @ 0,5A
(protected by a self-restorable thermal fuse)
- **PCBA dimension:** 45x75x16mm (l x h x p)

HOW TO ORDER

- **KSI2300003.300** - auxi 10in PCBA

ACCESSORIES

- **KSI7300000.001** - Plastic box for DIN rail

PARTS INCLUDED

- 1 auxi 10in expansion module (PCBA)
- 4 sustainers for metal cabinet's mounting
- 1 Installation Manual

CERTIFICATIONS

Europe - CE
EN50131 Grade 3 - Class II
T031:2014



perché auxi 10in *why auxi 10in*

- **because** with only one expansion module you can extend the number of input terminals available on your system
- **because** it is automatically configurable by means of its serial number: no need to adjust dip-switches on board
- **because** it is very small and therefore can be installed inside the wall within a standard DIN503 box
- **because** each terminal can be programmed as inputs with different EOL resistors
- **because** all the terminals can be programmed to directly manage the shutter and inertial sensors, without need for any external analysis card
- **because** It can be housed in a suitable plastic box for fixing on DIN rail

auxi 10in is an input expansion module for lares control panel, and gemino communicator series. It was born to offer a solution to increase the number of inputs, in particular on medium/large systems; the result is the dramatically reduction of the number of devices to be connected on the bus and of the space occupied.

This also means the reduction of the time and thus the installation costs and also increasing reliability. The dimensions are extraordinarily compact, the same of traditional auxi device. It is equipped with trolley terminal blocks of the same size of traditional auxi.

It acts like two 5 terminals auxi; so it can be used on existing systems. A simple firmware update of lares makes it compatible.

PROGRAMMING

The programming of the terminal functions is implemented during the programming of gemino or lares. auxi 10in has to be linked to the gemino or lares via the KS-BUS. Its 10 terminals can be configured as programmable inputs with End-of-line resistors.

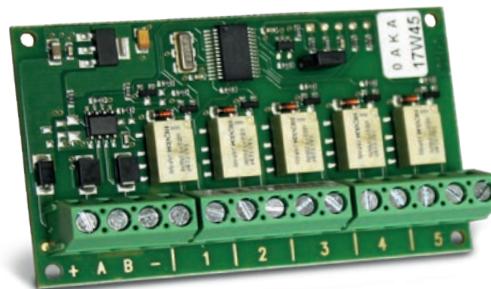
auxi 10in can be programmed directly from the lares Control Panel.

auxi relay expansion modules

product code **KSI2300001.300** - auxi relay PCBA

68

BUS PERIPHERALS/ auxi relay



auxi relay has 5 relay outputs (1A) which may be used for manage all kind of loads in lares Control Panel series.

auxi relay is programmed directly from lares Control Panel.

TECHNICAL DATA

- **Voltage:** 13,8Vdc
- **Current consumption:** 100mA max.
- **Up to 5 relays outputs 1A**
- **PCBA dimension:** 75x45x16 mm (lxhxw)

HOW TO ORDER

- **KSI2300001.300** - auxi relay PCBA

ACCESSORIES

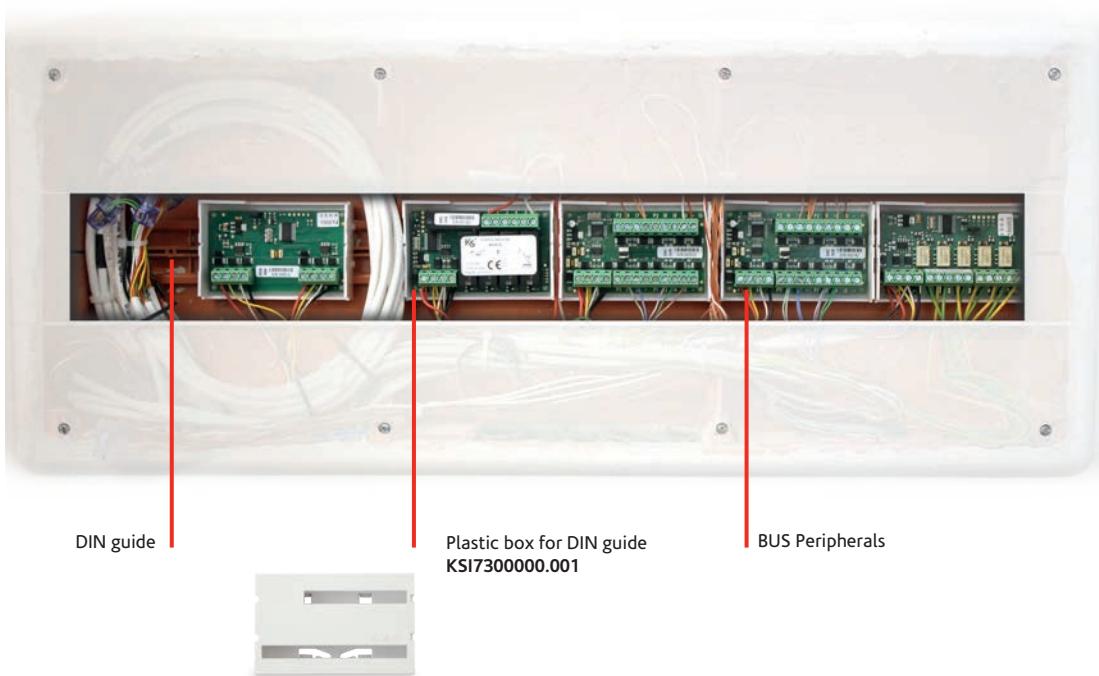
- **KSI7300000.001** - Plastic box for DIN rail
- **KSI7302000.010** - Plastic box "slim" version

PARTS INCLUDED

- 1 auxi-L/ auxi relay expansion module (PCBA)
- 4 sustainers for metal cabinet's mounting
- 1 Installation Manual

COMPLIANCE

Europe - CE

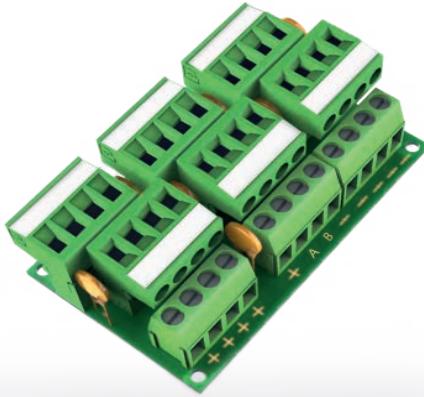


BUS Switch module

product code **KSI2500001.300** - BUS switch PCBA

TECHNICAL DATA

- KS-BUS Interface
- PCBA dimension: 75x45x16 mm (lxhxw)



HOW TO ORDER

- **KSI2500001.300** - BUS Switch PCBA

ACCESSORIES

- **KSI7300000.001** - Plastic box for DIN rail
- **KSI7302000.010** - Plastic box "slim" version

PARTS INCLUDED

- 1 BUS Switch (PCBA)
- 4 sustainers for metal cabinet's mounting
- 1 Installation Manual

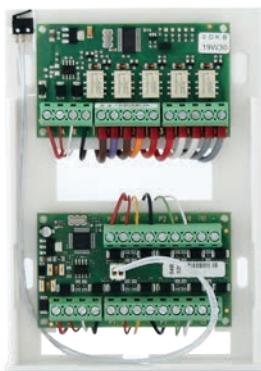
COMPLIANCE

Europe - CE

The BUS switch module is a board of extremely compact dimensions, 70x45mm that allows fast wiring and related maintenance operations.

In fact, it connects to the control panel BUS, and has 6 removable terminal boards to which 6 distinct BUS branches can be connected. Each BUS branch has the power supply positive protected with a 0.5A self-resetting thermal fuse.

In addition, there are 4 other terminals for connecting positive power supply (also protected by a 0.5A fuse) and 4 terminals for connecting the negatives.



Plastic box 'Slim' version
KSI7302000.010

divide BUS Isolator & Repeater

product code **KSI2500000.300** - divide

70

BUS PERIPHERALS / divide



TECHNICAL DATA

- Power Supply: 13,8Vdc
- Consumption: 20mA
- KS-BUS terminal: 2 4-wires (specular in connection)
- Board Dimension: 45x75 x16 mm

PARTS INCLUDED

- 1 Module divide
- 1 Quick Installation Guide
- 4 Plastic sustainers
(for installation into "slim" box or metal cabinet)

HOW TO ORDER

- **KSI2500000.300** - PCBA divide

ACCESSORIES

- **KSI7300000.001** - Plastic box for DIN rail
- **KSI7302000.010** - Plastic box "slim" version

CERTIFICATIONS

Europe CE
EN50131 Grade 3 Class II
T031:2014



divide dal latino significa **dividere**.

divide derives from Latin and means **subdivide**.

divide BUS Isolator & Repeater is a separation board for the KS-BUS.

divide allows you to separate the KS-BUS in order to:

- dissect a part of the system so that any failure or sabotage of devices will not generate disservice on the whole network;
- boost the signal on the BUS; this amplification allows to increase the extension of the BUS for further 500 m.

Due to **divide** characteristics, it is not necessary any kind of programming: thanks to the BUS, the control panel and/or devices continue to "detect" the other parts in a transparent manner.

PROGRAMMING

No programming needed.



Plastic box 'slim' version

opis Supervised Power Supply Station

Product code **KSI2400001.300** - Power Supply Station
KSI2400000.300 - PCBA only



TECHNICAL DATA

- **Battery management:** 18 Ah
- **Operating Range:** 12 - 15 Vdc
- **Consumption:** 50 mA stand-by ; 950 mA max
- **Operating temperature range:** -10 +55 °C; 95% Humidity
- **Dimensions:** 115x60x20 mm (PCBA)
- **Weight:** 50 g
- **Maximum current available for external devices:** 1400mA grade 2 - 200mA grade 3

71

PARTS INCLUDED

- 1 PCBA opis
- 1 Installation Manual
- 1 Large metallic box 325x400x90 mm
- Switching Power Supply 12Vdc - 3.0 A
- 2A Fuse

HOW TO ORDER

KSI2400001.300 - Power Supply Station
KSI2400000.300 - PCBA only

ACCESSORIES

KSI7403130.010 - Large metallic cabinet with 3.0 A Power Supply

CERTIFICATIONS

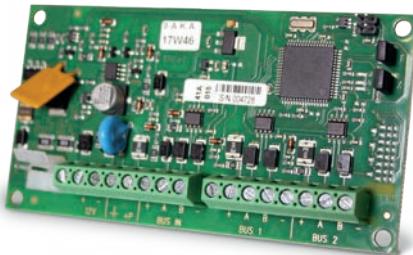
Europe - CE
EN50131 Grade 3 - Class II
T031:2014



opis dal latino significa risorsa, ricchezza, assistenza, appoggio.
opis derives from Latin and means redouble.

opis is a device that allows to extend the BUS on two additional branches. The power supply to the branches it is provided by the same opis, protected by an 1,5 A auto restoring thermal fuse.

The device is fully supervised by the panel, with BUS status, power supply voltage and battery charge information.



Detail of PCBA



The complete power supply station with 3A switching power supply, PCBA and 2A fuse



SMART HOME BUILDING MANAGEMENT SYSTEM



Ksenia

security innovation



BUS PERIPHERALS - Smart Home

domus Multi-function sensor

product code **KSI2700000.300** - domus

74

BUS PERIPHERALS - Smart Home/ domus



TECHNICAL DATA

- Power Supply: 13,8 Vdc
- Consumption: 10mA max
- Temperature sensor ($\pm 0,2$ °C)
- Humidity Sensor ($\pm 2\%$ RH)
- PIR detector, 6 meters capacity, 5 rays, opening: 45°
- Light sensor
- Compatible with opera Keystone
- KS-BUS interface

HOW TO ORDER

- KSI2700000.300 - domus

PARTS INCLUDED

- 1 domus Multi-function sensor
- 1 Quick Installation Guide ITA/EN

COMPLIANCE

Europe - CE

domus dal latino significa, **casa, abitazione.**
domus derives from Latin means **home, house.**

domus is a built-in module which, like the RFID reader for volo-in access control, uses the Keystone opening (of identical size on any series of switch plates) to insert a new device that allows, for each room, to have in a single device a motion detector, a temperature sensor, relative humidity and light intensity. Ideal for home automation, in combination with auxi-L module, it allows to switch lights on and off depending on the internal brightness, whenever someone is in the room.

It also has a temperature and humidity sensor, produced by Sensirion (world leader in the production of these devices) and able to drive and manage at best its own air conditioning and dehumidification system, in order to obtain the real degree of comfort desired.

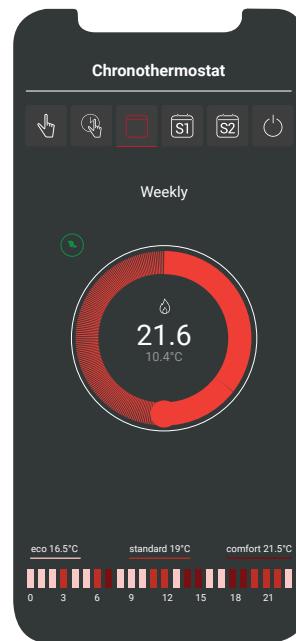
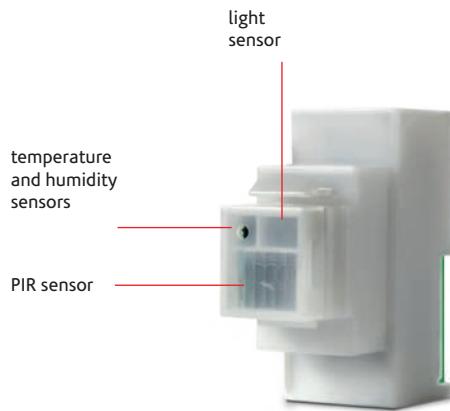
It becomes indispensable for office environments and for the correct humidification required in museums for the best conservation of art works.

domus is the ideal device for temperature control in the residential area and not only: it can be easily installed in any environment. Thanks to the chronothermostat available on lares 4.0 control panel, it is possible to adjust the temperature comfortably and anywhere, adapting the level of comfort to the use of the environment with significant energy savings.

Thanks to the flexibility of lares 4.0 control panel it can control both heating and conditioning devices.

domus connects to lares 4.0 control panels via KS-BUS 4-wire serial BUS and is programmed directly from the control panel.



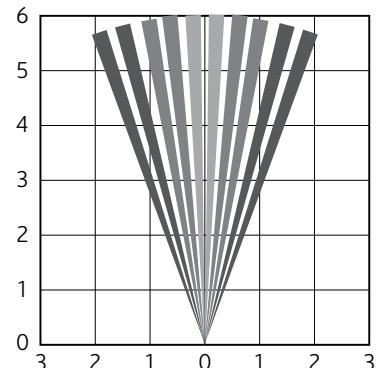


perché domus
why domus

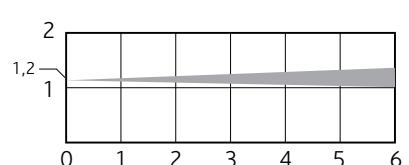
- because in a single device there are 4 sensors, and this allows its use in the most various applications
- because thanks to its dimensions it occupies only one module of box 503
- because, thanks to its design, it fits into a keystone adapter, and it is therefore compatible with any electrical civil series
- because it has one of the best temperature and humidity sensors on the market, its positioning on the front of the device with a minimum opening also allows an accurate measurement of the real parameters of the environment
- because it connects quickly with the 4-wire BUS, and it is completely manageable by lares 4.0 control panel

COVERAGE AREA

TOP VIEW



SIDE VIEW



auxi-H Expansion module

product code **KSI2300005.300** - auxi-H PCBA

76

BUS PERIPHERALS - Smart Home / auxi-H



TECHNICAL DATA

- Up to 2 inter-blocked relays output 250V-8A
- Up to 3 alarm input
- 2 input for local buttons
- Up to 6 different positions for the roller shutter
- Compact size: 45x75x16 mm
- Plastic box for installation on DIN guide
- Fast Addressing System on KS-BUS

PARTS INCLUDED

- 1 auxi-H expansion module (PCBA)
- 4 sustainers for metal or plastic cabinet's
- 1 Installation Manual

HOW TO ORDER

- **KSI2300005.300** - PCBA auxi-H

ACCESSORIES

- **KSI7300000.001** - Plastic box for DIN rail

COMPLIANCE

Europe - CE

auxi dal latino significa accrescere, aumentare, potenziare.
auxi derives from Latin and means to increase, to potentiate.

auxi-H is a Module designed for the complete management of Windows/Doors equipped with motorized shutters. It provides 3 Zones for linking the necessary Protections of the Window (Magnetic Contact, Shutter Sensor, Inertial Sensor of Perimetral Barriers) and 2 inputs for managing the local activation buttons for the Shutter Automation.

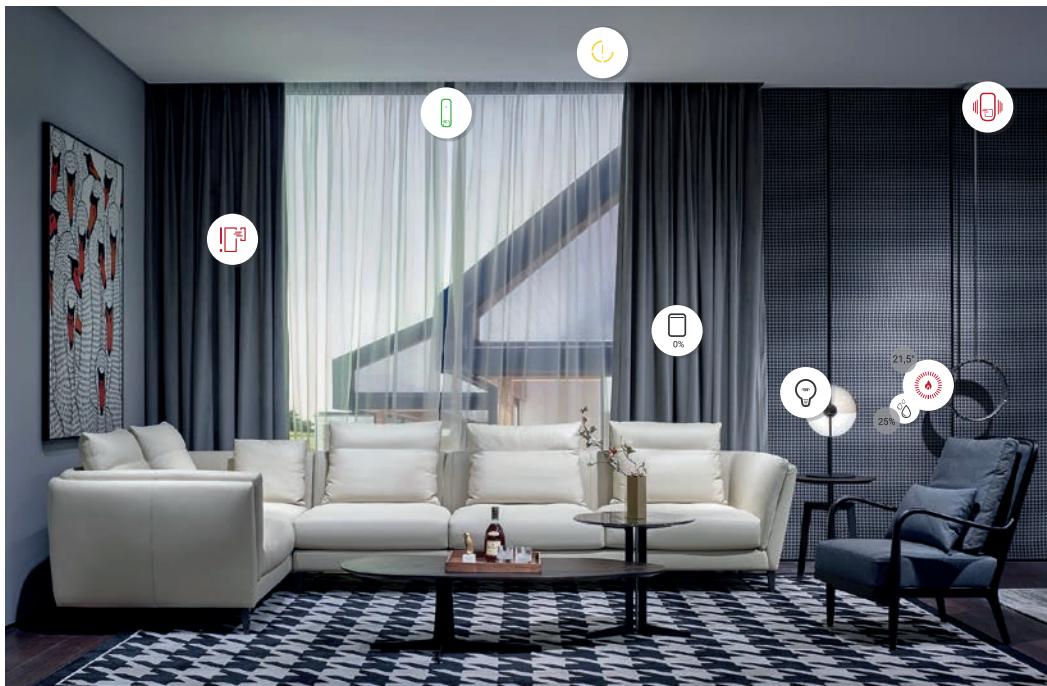
Additionally, it provides 2 interlocked relays outputs (8A-250V) for controlling the Shutter motors. From the Scenarios programmed on lares 4.0, not only it will be possible to open or close entirely the Window Shutters from your APP, but also to position them in 4 different Opening Positions (2/3 Opening, Half-Opening, 1/3 Opening and only Air-Circling). With local Buttons it is possible to manage it in the normal way, but also to manage the complete Opening or Closing with a Double-Click.

As all the other Expansion Modules of Ksenia Security, it's having very compact dimensions (only 70x45mm) enabling space savings, it can be installed either inside the DIN-503 Boxes and on DIN guide reducing dramatically the installation time.

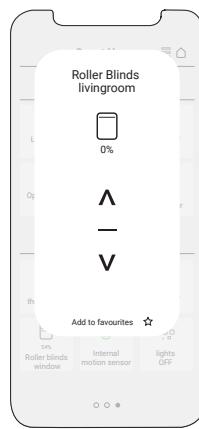
auxi-H is to be connected to the Panel lares 4.0 by means of the 4 wires Serial KS-BUS.

perché auxi-H
why auxi-H

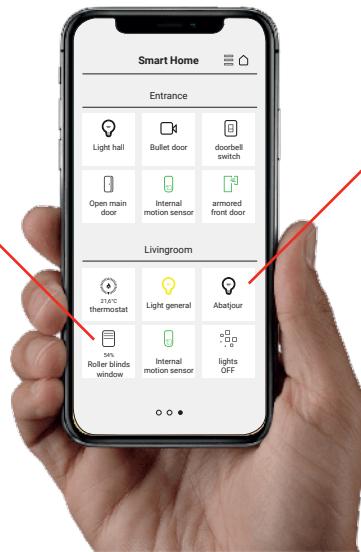
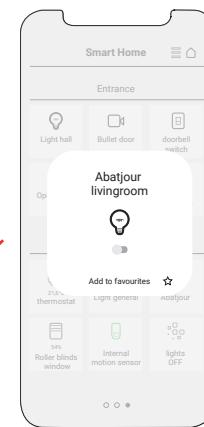
- **because** it is possible to completely control with a single device a gate equipped with motorized roller shutters: it checks the engines, allows to move the shutters even when the system is switched on without deactivating the same, moreover one of the inputs can be configured to block the movement of the shutter (for example to connect a photocell)
- **because** it allows to manage not only the rolling shutters when opening and closing, but also to set them in intermediate position
- **because** it allows to know the opening status of the shutters remotely
- **because** it is flexible and fits with a simple jumper to the management of shutters or lights
- **because** the local buttons continue to work even in case of failure of the control panel



Roller Blinds Management



Lights Management

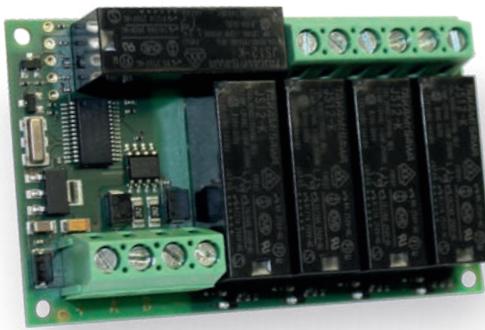


auxi-L Expansion modules

product code **KSI2300004.300** - auxi-L PCBA

78

BUS PERIPHERALS - Smart Home / auxi-L



TECHNICAL DATA

- **Power Supply:** 13,8 Vdc
- **Consumption:** 120 mA max.
- **Output:** Up to 5 relay, 250 V - 8 A (10 A peak)
- Fast addressing System on KS-BUS
- **PCB Dimension:** 45x75x16 mm

HOW TO ORDER

- **KSI2300004.300** - auxi-L PCBA

ACCESSORIES

- **KSI7300000.001** - Plastic box for DIN rail
- **KSI7302000.010** - Plastic box "slim" version

PARTS INCLUDED

- 1 auxi-L expansion module (PCBA)
- 4 sustainers for metal cabinet's mounting
- 1 Installation Manual

COMPLIANCE

Europe - CE

auxi dal latino significa accrescere, aumentare, potenziare.
auxi derives from Latin and means to increase, to potentiate.

auxi-L is an Expansion Module with 5 Relays outputs operating at 250V-8A (10A peak), with 1 common Terminal, ideal for Light Management and for disconnecting Appliances.

As all the other Expansion Modules of Ksenia Security, it's having very compact dimensions (only 70x45mm) enabling room savings, it can be installed either inside the DIN-503 Boxes and on DIN guide reducing dramatically the installation time.

auxi-L is to be connected to the **lares 4.0** by means of the 4 wires Serial KS-BUS.

perché auxi-L
why auxi-L

- **because** it has 5 relay outputs, with a common terminal, which allows a clean wiring to control lights and loads in general;
- **because** each relay is able to handle loads up to 8A at 250Vac;
- **because** with only one expansion module you can extend the number of input terminals available on your system;
- **because** it is automatically configurable by means of its serial number: no need to adjust dip-switches on board;
- **because** it is very small and therefore can be installed inside the wall within a standard DIN503 box.
- **because** it can be housed in a suitable plastic box for fixing on DIN rail.

energia energy management system

product code **KSI2700001.300** - energia module



TECHNICAL DATA

- Maximum power: 2x6kW
- 4 relays outputs: 250 V - 1 A
- KS-BUS Interface
- Dimensions: 90x53x62 mm (hxlxp)

INCLUDED PARTS

- 1 energia module
- 1 Installation guide

HOW TO ORDER

- **KSI2700001.300** - energia module

COMPLIANCE

Europe - CE

energia dal latino significa energia.
energia derives from Latin and means energy.

energia module allows the electrical loads management in your single-phase electrical system, due to excess of total system power consumption, when simultaneous switching on of overloaded circuits occurs. It takes action before the Residual Current Device (RCD) switches off the power because of overloaded circuits.

energia module monitors the total system power consumption continuously: if a threshold is set, an automatic disconnection of overloaded circuits starts, until the total system power consumption returns below the threshold value.

energia module measures the consumption on two distinct power lines, each line can support electrical loads up to 6kW.

energia module has to be linked to the lares 4.0 control panel via the KS-BUS. It becomes the ideal complement when lares 4.0 is used in the home & building automation field.

When the module detects an excess of total system power consumption, it disconnects in sequence the overloaded circuits, connected to the lares 4.0 configurable outputs, until the power consumption returns below the set limit.

Furthermore, on the module there are 4 outputs relays (220V, 1A) which can be used both to drive external relays for overloaded circuits disconnection and as general outputs of the control unit.

Finally, the End-User through **energia** module can always monitor the total system power consumption via any mobile device, using the dedicated APP lares 4.0.

energia module is supplied with a plastic box that occupies 3 DIM modules.

perché energia
why energia

- because it allows the monitoring of the system power consumption on two distinct power lines, up to 6kW for each line;
- because the automatic disconnection of overloaded circuits can be set when the configured threshold of power supply exceeds;
- because it is provided with 4 free configurable outputs relays;
- because it can be linked to the control panel via the KS-BUS, quickly and easily.

we care 



Ksenia
security innovation

radius
imago

INDOOR AND OUTDOOR SIRENS

radius Indoor siren & Emergency Light

product code **KSI6101000.310** - for KS-BUS only

82

INDOOR AND OUTDOOR SIRENS / radius



TECHNICAL DATA

- Ultra-modern design with additional Emergency Light function
- Acoustic and Lighting signal in case of wire-cutting action
- 1 input for the alarm
- 1 input for the main 3 W power LED only
- Auto-learning of input polarity
- High Sound Pressure Piezoelectric Buzzer (>100 dBA at 1m)
- Integrated Temperature Sensor: ±0,1°C
- Back-up Battery
- Temperature Range: from +5° to +40 °C
- Dimensions (W x H x D): 102x142x37 mm max
- Weight (with Battery): 300 g

PARTS INCLUDED

- 1 Siren complete with PCBA and battery
- Set of 4 colored covers
- 1 Quick Installation Guide in ITA/EN

HOW TO ORDER

KSI6101000.310 - KS-BUS version

ACCESSORIES

- **KSI7207008.00** - Lithium-Ion Battery 7,4 Vdc- 850 mAh

CERTIFICATIONS

Europe CE
EN50131- 4 Grade 3 class II
T031:2014
SSF 1014 Larmklass 3



radius dal latino significa fascio di luce, raggio.
radius derives from Latin and means ray, radius.

The **radius** self-powered indoor siren is actually a professional (acoustic & optical) Sounder which shows a unique and exclusive design, extremely slim (max. 37 mm thick) associated with a modern technology aimed to combine the best possible performances with the maximum energy saving: very high sound pressure, 3W power LED Alarm Light which also acts as emergency light in case of main power's black-out. The siren is fully controlled by a microprocessor which checks the possible status of the device and sends the appropriate signal.

radius, like the **ergo** keypads, has been designed to be fully flexible even from a chromatic stand point of view to be easily and superbly integrated in any kind of interior design: as a matter of fact, its design allows the end user to take advantage of 4 different colors, i.e. white, metallized grey, red and black. With regard to its function, **radius** is available with 2 inputs to activate the acoustic and optical signals, which thanks to the programming of the inputs polarities are easy to be linked to any Control Panel (Universal version only). The first time you power up it, the siren reads all the inputs and associates them to the correct polarity and stand-by status with no need to program them manually, saving the programming itself on a non-volatile memory; either they are inputs with positive or negative command, or with or without intrinsic security (command to miss or to give), **radius** links any of them with the associated function.

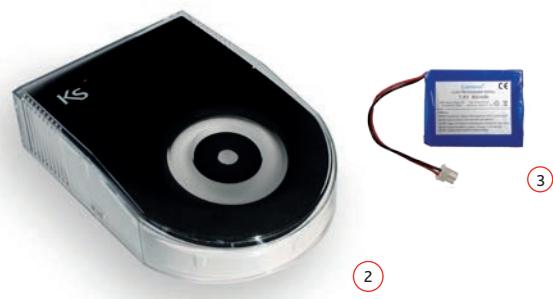
The battery is steadily monitored and its malfunctioning immediately signalized to the Control Panel. On top of the automatic protection for preventing wire-cutting actions, **radius** is protected by 2 tamper switches against cover opening and against removal from the wall. In the KS-BUS communication's version (only for **lares** Control Panels) the siren is equipped with a precision temperature sensor to display the indoor temperature in the **ergo** Ksenia keypads and for Home Automation applications.

PROGRAMMING

radius is linked to the **lares** Control Panel by means of the 4-wires serial KS-BUS and it can be easily programmed from the Control Panel.



1



2

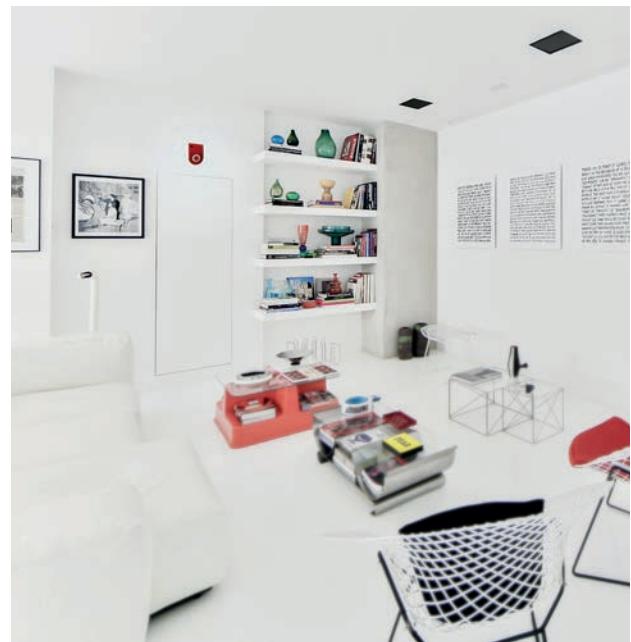


4

1. detail of radius colored interchangeable cover.
2. radius with Black lexan cover.
3. Lithium-Ion battery
4. Disassembled

*perché radius
why radius*

- because it has a design that perfectly matches with ergo keypads, with whom it often shares the installed environment.
- because, like ergo keyboard, it can be customized in 4 Ksenia colors (white, black, grey and red) simply replacing the internal cover (included in the package).
- because it has a high luminous efficiency LED that, in addition to signalling the alarm, can be activated in case of electric blackout and therefore act as an emergency light.
- because it has an integrated temperature sensor.
- because it can be installed in a few minutes and can be configurated quickly, even remotely thanks to KS-BUS connection.



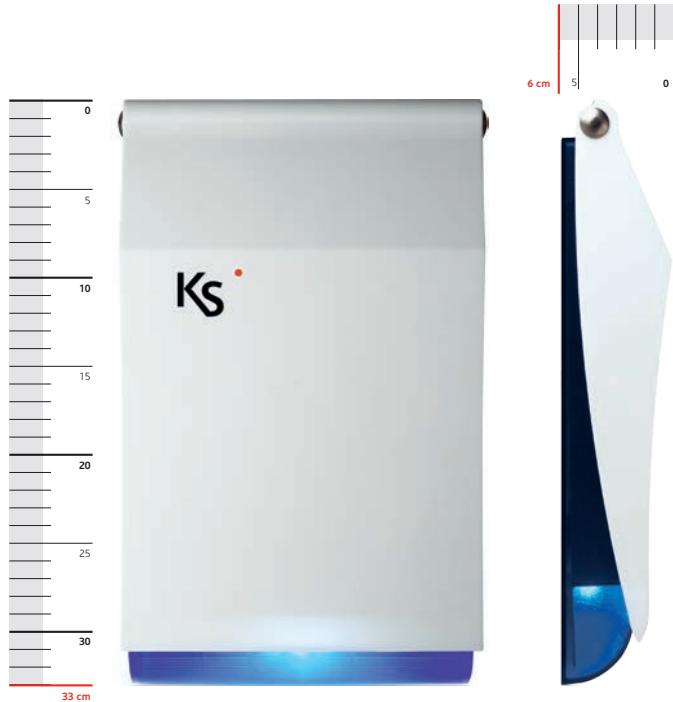
imago Outdoor siren

product code **KSI6300000.3XX** - Universal

KSI6301000.3XX - for KS-BUS only - in different colors

84

INDOOR AND OUTDOOR SIRENS / imago



imago dal latino significa **aspetto, idea, concetto**.

imago derives from Latin and means aspect, idea, concept.

imago is available with 3 inputs to activate the acoustic and optical signals, which thanks to the programming of the inputs polarities are easy to be linked to any Control Panel (Universal version only).

The first time you power up it, the siren reads all the inputs and associates them to the correct polarity and stand-by status with no need to program them manually, saving the programming itself on a nonvolatile memory; either they are inputs with positive or negative command, or with or without intrinsic security (command to miss or to give), imago links any of them with the associated function.

The battery is steadily monitored and its malfunctioning or discharge immediately signalized to the Control Panel. On top of the automatic protection for preventing wire-cutting actions, imago is protected by 2 tamper switches against cover opening and against removal from the wall.

Moreover, in spite of its very slim profile, it hides a strong metal undercover against smashing. The housing is made of very high-quality

anti-UV polycarbonate and its mechanical characteristics are meant to guarantee a long time resistance against all weather conditions.

In the KS-BUS communication's version (only for lares Control Panels) the siren is equipped with a precision temperature sensor Compass Opening for to display the outdoor temperature in the ergo Ksenia Keypad and for Home Automation applications.

imago is available both in the Universal version and in the BUS version.

All imago plastic parts are in high-quality thickness Polycarbonate with anti-UV protection and IP43 degree against the worst weather conditions.

Compass Opening for the easiest mounting and installation with strong 6mm inox Steel Bolts.



imago Outdoor siren



Detail of rotating opening and metal undercover

PROGRAMMING

In the KS-BUS version, **imago** is linked to the **lares** Control Panel by means of the 4-wires serial KS-BUS and it can be easily programmed from the Control Panel. In the stand-alone version, **imago** is equipped with 3 programming jumpers:

- one for choosing max. Alarm Duration (3 or 10 minutes);
- one for Tampers Exclusion (in case of siren opening, only the tamper relay is activated or even the Alarm functions sound and lights);
- one for Resetting the 3 inputs polarity programming.

AVAILABLE COLOURS

Cover



Transparent background



HOW TO ORDER

Ksenia finished product:

- **KSI6300000.3XX*** - Universal
- **KSI6301000.3XX*** - KS-BUS version

(*) The code suffix 3XX indicates the different color option.
e.g. 318 Is the code for a white cover with red bottom imago.

Ksenia **covers only**:

- **KSI6901000.3YY**** - cover only (both versions)
- (**) The code suffix 3YY indicates the different color option.
e.g. 340 Is the code for a beige cover.

Ksenia **bottom only**:

- **KSI6901000.30Z***** - bottom only (both versions)
- (***) The code suffix 30Z indicates the different color option.
e.g. 307 Is the code for an orange bottom.



It is possible to choose imago among 3 different colors for the transparent bottom
Even the front cover is available in different colors and can be customized on request by screen-printing
the installer logo





LE PERIFERICHE BUS

Sono stati progettati con le seguenti caratteristiche per ridurne l'impatto ambientale:

- Assenza di PVC
- Laminati senza Alogeno e circuiti stampati senza piombo
- Basso assorbimento
- Imballo realizzato per la maggior parte con fibre riciclate e materiali provenienti da fonti rinnovabili

BUS PERIPHERALS

Are been designed and manufactured for the environment as follows:

- Absence of PVC
- Halogen free laminates and lead-free PCBA
- Low consumption
- Packaging realized mainly with recycled fibers and materials



Ksenia

security innovation

unum
unum DT
unum DT AM

MOTION DETECTORS

unum Indoor Motion Detector

product code **KSI5101000.300** - unum
KSI5101100.300 - unum Pet Immune



90

MOTION DETECTORS / unum



*reliable
motion detectors*



pet-Immunity



*low power
consumption*



unique design

TECHNICAL DATA

- **IR Sensor:** Dual-Element-Pyroelectric
- **Power Supply:** 8-16 Vdc; 24 mA at 12 Vdc
- **Alarm Relay:**
Solid State, 60V, 50 mA, isolation 1500 Vrms
- **Tamper Switch:**
Form A contact, normally closed (NC)
50 mA at 30 Vdc
- **Events Detection:**
HighBar false alarm rejection processor
- **RF Immunity:**
20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- **White Light Immunity:** 6500 lux
- **Sensitivity:** Selectable: 2-event or 3-event
- **Operating Temperature Range:** +5°C to +40°C
- **Housing Material:** Base: ABS, Cover: HDPE
- **Overall Dimensions:** 113x60x45 mm (HxWxD)
- **Pet immunity:** up to 10 Kg

HOW TO ORDER

- **KSI5101000.300** - PIR
- **KSI5101100.300** - PIR + Pet Immune

ACCESSORIES

- **KSI5900003.000** - Wall-Mounting Bracket

unum dal latino significa **unico**.
unum derives from Latin and means **unique**.

It can be translated in different appropriate meanings:

it incorporates the lens in the front housing, it has the same profile for all technologies (from simple PIR to Dual-Tech) and, for all the above, is unique in the industry.

in designing professional lens for motion detection purposes, thus enabling to achieve the objective to literally make the lens disappearing from the detector profile, thanks to very sophisticated techniques which also use the same special material of the lens (HDPE), to basically allow it to be fully embedded, completely integrated in the front cover itself;

- because they do not need, unlike other products in the market, to have on their front side all those colored lights (LEDs) which very often the installers need to disable because too annoying for the end-customers;
- because all the different detector models, although having different functions, like as the simple PIR or Dual-Tech, with or without Pet Immunity, all of them have the same design and size, so to avoid the unpleasant view of different detectors shapes on the walls, too often in the same room or environment;
- because they have a truly wide operating temperature range;
- because, they are eco-friendly, in line with Ksenia Security Company's belief, all unum utilize components like as DSP ASIC with very low consumption.

perché unum why unum

- because they are "state-of-the-art" Professional Motion Detectors realized with the very best components and materials to guarantee, at first place and without compromises, the highest possible degree of reliability available from the most modern Technologies;

- because they have a unique aesthetic - minimalist and discreet different from the rest, being the result of many studies and suggestions collected from Interior Architects and End-users, who wanted something that could actually merge, integrate with their architecture styles to the point to become themselves active players to that instead of being something "not too nice but necessary to be installed" to the purpose of having an intrusion system up and running;

- because unum detectors apply the new ELT Technology (Embedded Lens Technology), which takes advantage from decades of experience

MAIN FUNCTIONS DESCRIPTION

Alarm processing

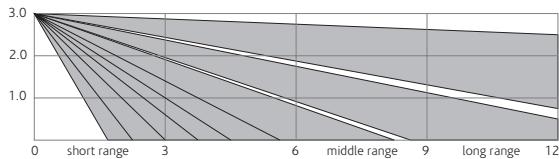
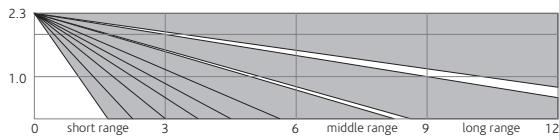
Dual-element detector fields-of-view alternate between (+) and (-) polarity. HighBar-qualified signal events are counted as "pulses" exclusively when polarity alternates. Depending on sensitivity setting, (+,-), (-,+), (+,-,+), (+,-,-) or (-,+,-) will cause an alarm.



Range

12 meters in sensor-facing direction

12 meters at 45° angle from sensor-facing direction



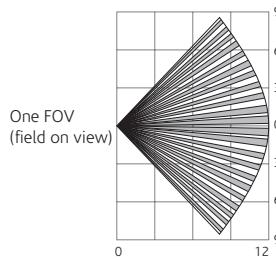
Sensor Optical View Pattern: side view, in meters

Optical Fields-of-View

Long-range: 44

Mid-range: 36

Short-range: 18



Sensor Optical View Pattern (top view, in meters)

The PIR Motion Detectors unum are professional state-of-the-art motion sensors engineered with the world's best components and materials. These detectors provide the highest degree of reliability in motion detection, without the risk of false alarms.

Additionally the unum series introduces in the market the only detectors with trendy invisible lens, i.e. the lens integrated into the front cover thanks to E.L.T. (Embedded Lens Technology) which takes advantage from decades of experience in designing professional lens.

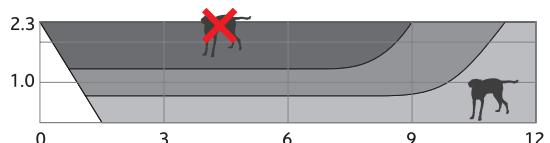
The PIR side starts with a EvenEye lens and a top-quality infrared detector.

Next, a modern DSP ASIC (patent-pending) converts the infrared detector signal into digital form, for best reliability and stability. Finally, the signal is evaluated by the ASIC's HighBar processor, for "best-in-class" false alarm rejection with excellent intruder detection.

PET IMMUNITY

The PI-PIR Motion Detector unum is designed to allow the presence of pets (10 kg or lighter) without signaling an alarm. It includes a special micro-element lens array that produces much stronger optical signals for humans than for pets. Furthermore, the optical sensitivity of each PI-PIR Motion Detectors unum is factory-calibrated to ensure accurate discrimination between humans and pets.

The diagram below shows those zones of greatest human/pet discrimination by the PI-PIR Motion Detector unum. It should be mounted so that pets will occupy only the lighter-colored spaces.



unum Dual-Tech Motion Detector

product code KSI5102000.300 - unum DT

KSI5102100.300 - unum DT + Pet Immune



92

MOTION DETECTORS / unum



TECHNICAL DATA

(in addition to what stated for unum PIR)

- **Microwave Operating Freq.:**
around 10GHz (see unit label)
- **Events Detection:**
Sure Spot processing engine
- **RF Immunity:**
20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- **Microwave Range:**
20%-100% adjustable
- **Lighting rejection:**
selectable 50 or 60 Hz
- **Pet Immunity:**
Up to 10 Kg

HOW TO ORDER

- KSI5102000.300 - DT
- KSI5102100.300 - DT + Pet Immune

ACCESSORIES

- KSI5900003.000 - Wall-Mounting Bracket

CERTIFICATIONS

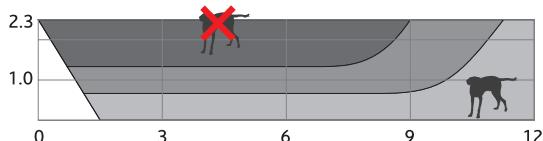
Europe - RoHS, CE
EN50131 Grade 2 - Class II



DT Motion Detectors unum include two motion sensing systems: microwave Doppler motion sensing and PIR motion sensing. Together, the two systems' signals are evaluated by proprietary signal processing algorithms, which reject false alarm conditions while detecting intruders. The DT Motion Detector unum microwave system includes a modern, compact, DRO-based micro-strip Doppler transceiver, with PCB "patch" antennas. The Doppler signal is digitally processed to detect intruders and reject distractions. Constant-motion signals (such as fans) are de-emphasized, and fluorescent light frequencies are digitally removed. The PIR side starts with an Even Eye lens and a top-quality infrared detector. Next, a modern DSP ASIC (patent-pending) converts the infrared detector signal into digital form, for best reliability and stability. Finally, the signal is evaluated by the ASIC's HighBar processor, for "best-in-class" false alarm rejection with excellent intruder detection.

The DT-PI unum series join the advantages of the Dual-Technology described above and Pet Immunity. The best Technology to serve the customer.

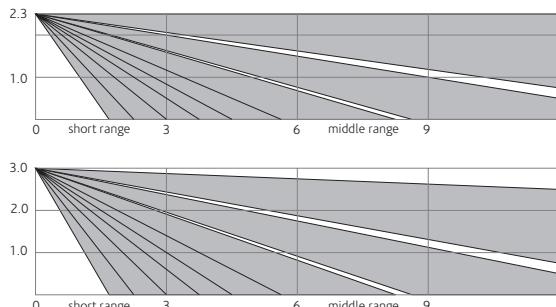
The DT-PI detectors should be mounted so that pets will occupy only the lighter-colored spaces.



Range

12 meters in sensor-facing direction

12 meters at 45° angle from sensor-facing direction



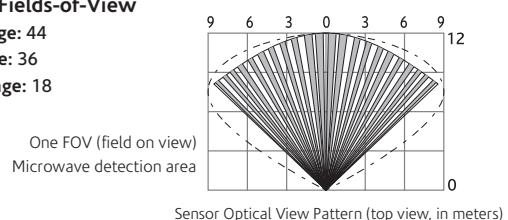
Sensor Optical View Pattern: side view, in meters

Optical Fields-of-View

Long-range: 44

Mid-range: 36

Short-range: 18



Sensor Optical View Pattern (top view, in meters)

unum DT Anti-Masking Motion Detector

product code **KSI5102010.300** - unum DT + AM

KSI5102110.300 - unum DT + AM + Pet Immune



TECHNICAL DATA

- **IR Sensor:** Dual elements
- **Power Supply:** 8-16 Vdc; 38 mA at 12 Vdc
- **Alarm and Mask Relay:**
Solid state, 60V, 50 mA, 1500 Vrms isolation
- **Tamper Switch:** Form A (NC); 50 mA at 30 Vdc
- **Microwave Operating Freq.:**
around 10GHz. See unit label
- **Events Detection:** Sure Spot™ processing engine
- **RF Immunity:**
20 V/m, 10-1000 MHz; 10 V/m, 1-2 GHz
- **White Light immunity:** 6500 lux
- **Pet immunity:** Up to 10 Kg.
- **Sensitivity:** Selectable: 2-events or 3-events
- **Range:** Microwave 20%-100% adjustable
- **Lighting rejection:** selectable 50 or 60 Hz.
- **Operating Temperature Range:**
from +5°C to +40°C
- **Storage:** from -40 °C to +60 °C
- **Housing Material:** Base: ABS; Front: HDPE
- **Dimensions:** 113 x 60 x 45 mm (H x W x D)
- **Weight:** 95 g

93

HOW TO ORDER

- **KSI5102010.300** - DT + AM
- **KSI5102110.300** - DT + AM + Pet Immune

ACCESSORIES

- **KSI5900003.000** - Wall-Mounting Bracket

COMPLIANCE

Europe - RoHS, CE

The motion detectors unum DT + AM are professional motion detectors of who use the benefits of the Dual-Technology, pet immunity and anti-masking. They represent the top range of detectors for indoor of Ksenia Security. The unum DT + AM detector integrates directly on the card end of line resistors, selected to fit each plant type with comfortable removable jumpers.

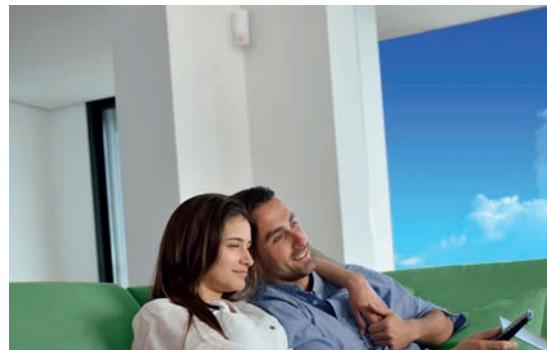
OPERATION OF ANTI-MASKING

The mask is detected by two analysis, running simultaneously: the first is an alteration of normal balance between alarm signals from Infrared (PIR) and microwave derived from the analysis continuous signal, using a reduced sensitivity of the microwave to minimize the effect of continuously moving objects that could affect only the microwave.

You can disable this type of analysis acting on a jumper.

The second analysis is based on an area of supervision (within one meters from the sensor): a person entering in the safe zone will activate the detection process of masking.

This second function cannot be disabled.





Ksenia
security innovation

velum DT AM
velum-C
wired magnetic contact

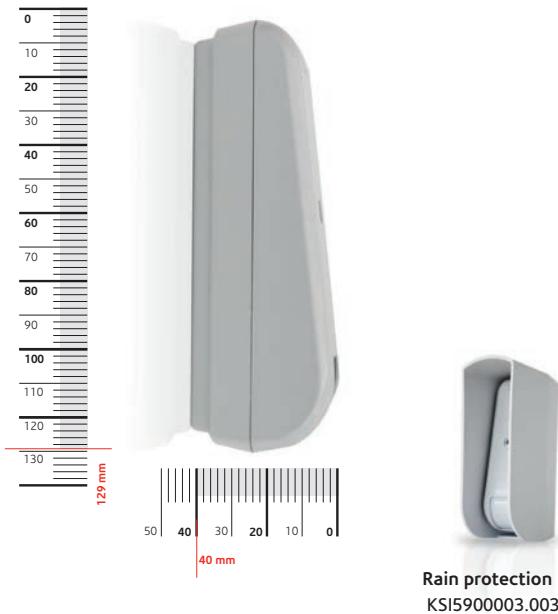
PERIMERAL AND EXTERNAL PROTECTION

velum DT AM Dual-Technology Motion Detector

product code KSI5302010.303 - velum DT AM

96

MOTION DETECTORS / velum



velum dal latino significa *velo*.
velum derives from Latin and means *veil*.

Ksenia velum is a motion sensor dual technology with Anti masking which can be installed both outside and inside.

It may simply mean that the sensor projects a dual Technology barrier shielding (infrared and microwave) which completely fills the area to be protected by covering it evenly, precisely as with a veil.

perché velum
why velum

- because the different detector models, all have the same design and the same size, while having different characteristics, whether wired or wireless technology. This avoids the typical "drop style" resulting from seeing often objects of different shape on the walls, maybe even the same room or local.
- because they guarantee maximum reliability when installed inside and outside in all weather conditions.
- because inside of the small size contain the latest technology in terms of environmental detection by integrating a dual technology.



TECHNICAL DATA

- Power Supply:** standard 12V, max 13,4V
- IR range:** 12m (room temperature 25 ° C)
- Operating Frequency MW:** 24.125GHz
- Range MW:** 12m
- Antimasking Analysis:** active infrared LED
- Thornproof:** mems platform. (Accelerometer)
- Sabotage:** front microswitch
- Operating Temperature Range:** from -20°C to +55° C
- Range MW:** adjustable by trimmer
- Analysis control tear:** enabling by dip-switch
- Analysis antimasking:** enabling by dip-switch
- LED indicators:** RGB in five colors, can be disabled via dip-switch
- Detection area:** only a tent (angle 7.5 °) **Horizontal coverage:** IR 90°, 80° MW, **Vertical coverage:** IR 7.5°, 32° MW
- Amplitude tent:** at 2m 25cm, 130cm at 10m
- Detection range:** from 0.30m to 12m
- Installation height:** 2.30m from 2.10m max on the wall
- Material and color (housing and clamps):** ABS gray
- Dimension:** 38 x 129 x 40mm (l x h x p)
- Weight:** 90g
- Protection:** IP54
- Embedded EOL resistance:** triple balancing 10Kohm parallel (To enable via microswitch) integrated on the pcb

HOW TO ORDER

KSI5302010.303 - velum DT AM

ACCESSORIES

- KSI5900003.003 - Rain protection

FUNCTIONS

velum detectors are motion sensors made with advanced professional components and materials among the best in the world. From every point of view, these sensors guarantee the highest degree of reliability in the detection of the movement, without incurring false alarms.

The motion detector velum includes two technologies for motion detection: microwave doppler effect and infrared. Together, these two signals are interpreted by proprietary algorithms that reject false alarms and detect unwanted intrusions.

Range

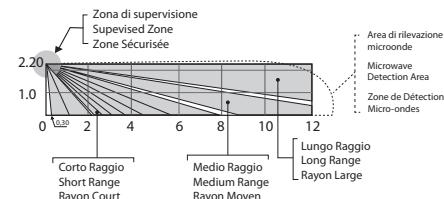
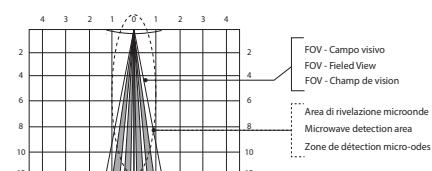


Diagram of visual coverage



velum-C Motion Detector

product code **KSI5302011.303 - velum-C**



TECHNICAL DATA

- **Power supply:** 1 battery pack 3,6 V - 2,7Ah included for a maximum duration of at least 2 years
- **Range:** 6 m (room temperature 25°C)
- **IR sensor:** Dual element
- **Operating frequency uW:** 24.125 GHz
- **ANTIMASKING Analysis:** active infrared LED
- **Thornproof:** Accelerometer
- **Sabotage:** front microswitch
- **Operating temperature range:** from -20°C to +55° C
- **RFI/EMI immunity:** 20 V/m, 10-1000 MHz;10 V/m, 1-2 Ghz
- **White light immunity:** 6500 lux
- **Operating wireless frequency:** 868 MHz band
- **Sight range:** up to 300 m
- **Detection area:** only a tent (angle from 7,5°)
- **Vertical coverage:** IR 90°, MW 80°
- **Installation height:** from 2 to 6 m on the wall
- **Material housing and clamps:** ABS
- **Dimension:** 129 x 38 x 40 mm
- **Weigh:** 90 g
- **Protection:** IP 54
- **Color:** gray

97

Section microwave sensors velum includes a transceiver Doppler microstrip modern and compact. The Doppler signal is digitally processed to obtain the highest degree of reliability in intrusion detection and exclusion problems. The signals of repetitive motion are filtered so as frequencies resulting from fluorescent light are eliminated in digitally. The section to the IR acts with a lens combined with an infrared detector of high quality.

Finally, the signal is evaluated by a processor, for obtaining the exclusion of false alarms while maintaining an excellent degree of intrusion detection. The masking of the lens of the infrared analysis is carried out using infrared LED active, able to detect any obstacle placed in the vicinity of the lens.

velum detectors are the ideal solution can protect situations such as canopies, porches, below balcony, windows etc. The sensor velum is synonymous reliability and high safety, not only from the qualitative point of view, but also against sabotage attempts, given that integrates a station with accelerometer flexible and functional even in installations with the hub and a micro switch for front opening.

velum-C detector is a curtain movement detector that has the same main characteristics as velum wls detector; it can however be installed on the ceiling with a 6m vertical flow.

In this way, positioned at the center of the frame, it ensures its complete coverage, creating an insurmountable barrier to any intruder.

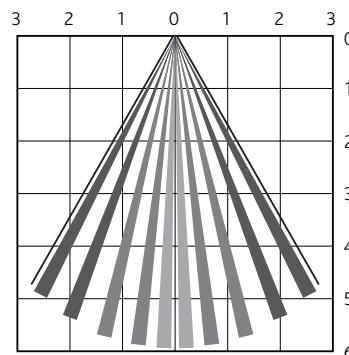
HOW TO ORDER

- **KSI5302011.303 - velum-C**

ACCESSORIES

- **KSI7203627.000 -** Lithium battery pack 3.6V-2700mA/h

Diagramma di copertura visiva



WIRED MAGNETIC CONTACTS

98

WIRED MAGNETIC CONTACTS



FUNCTIONS

Based on the MagnaspHERE®, inertial sensors Ksenia, V Series uses an innovative magnetic principle to detect vibrations.

The inertial sensors Ksenia V Series represents a point of complete rupture with the technologies of the past. They are based on a new, sensational and owner operating principle hybrid inertial / magnetic that will overcome all the inherent limitations of traditional passive technologies, whether ball, blades or rockers.

In the inertial Magnetic contacts Ksenia the metallic ball that reacts to vibrations is kept in equilibrium by the force of gravity, but by permanent magnetic fields. The vibrations imposed on the sensor, if strong enough to disturb the magnetic balance, causing the opening of the electrical circuit.

Thanks to a particularly accurate engineering project, the calibration of the magnetic fields has allowed first to provide a sensor whose response to vibrations (time intervals of opening and cyclicity of the same) mirrors with much fidelity that of the most common patterns of conventional sensors. In this way the inertial Ksenia reach a high degree of compatibility with the control panels: lares, even within the wireless sensor integrated through the device **duo Bus**.

Furthermore, achieving balance by magnetic fields, rather than by the mere force of gravity, it allows to realize the sensor with a ball mass and extremely compact dimensions.



Inertial sensor to view

- KSI5CLS-TW.2CN - Brown
- KSI5CLS-TW.2CW - White

Integrated parallel double balanced, anti-masking, 2-pole cable connection, 200cm cable length MAGNET EXCLUDED.



Inertial sensor built-in

- KSI5CLR-TW.0TN - Brown
- KSI5CLR-TW.0TW - White

Integrated parallel double balanced, anti-masking, connection with 2 screw terminals, ideal for: wooden frames (with KSI5CLR-MG00N/W), aluminum frames/PVC (with KSI5CLR-AL.00N/W), armored doors (with KSI5CLR-BL.00N/W), MAGNET EXCLUDED.



Adapter frames (aluminum / PVC)

- KSI5CLR-AL.00N - Brown
- KSI5CLR-AL.00W - White

Magnet and adapter on surface for aluminum frames or PVC.



Adapter for armored doors

- KSI5CLR-BL.00N - Brown
- KSI5CLR-BL.00W - White

Built-in Magnet and adapter for armored doors.



Magnetic sensor

- KSI5CLR-MG.00N - Brown
- KSI5CLR-MG.00W - White

Built-in Magnet and adapter for wooden frames.

TECHNICAL DATA

- Designed with patented MagnaspHERE® technology
- Protective and insulating treatment of the PCB (conformal coating) with resin
- Double parallel balancing with 2 resistors
- 10 K integrate
- Absence of constraints for positioning
- Individual quality control



ANTI-MASKING MAGNETIC CONTACTS

product code **KSI5CLH111.000**

99

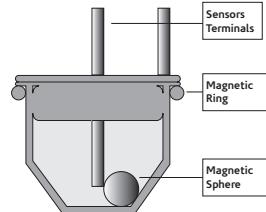


TECHNICAL DATA

- Designed with patented MagnaspHERE® technology
- Compatible with popular analysis boards impulse counter
- Protective and insulating treatment of the PCB (conformal coating) with resin.
- Compatible with the fast doors of the most common control panels
- Efficiency, prolonged in time
- Absence of constraints for positioning
- individual quality control



INTERNAL MECHANISM



FUNCTIONS

The Magnetic contacts traditional, technology-based Reed, are easily vulnerable.

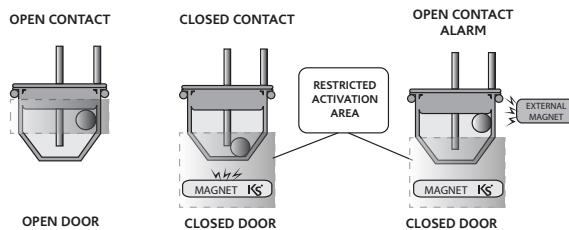
It is in fact simple masking the absence of the magnet abutment on a Reed contact, which means opening of the door, with the application of a magnet from the outside of the gate also to the alarm is armed, and having then access undisturbed.

In high security applications, the solution was up to now the use of sensors to "triple balancing magnetic", albeit with a considerable burden in terms of costs and installation time dimensions.

Ksenia Security offers a solution to the problem: stop the reed contacts. The MagnaspHERE® Technology contact Ksenia, even in the smallest flush model, offers a high-performance Security comparable with those obtained from contacts in triple balancing magnetic.

HOW TO ORDER

KSI5CLH111.000	aluminium only	2 pz
White KSI5CLS-TW.2CW	Brown KSI5CLS-TW.2CN	5 pz
White KSI5CLR-TW.0TW	Brown KSI5CLR-TW.0TN	10 pz
White KSI5CLR-MG.00W	Brown KSI5CLR-MG.00N	10 pz
White KSI5CLR-AL.00W	Brown KSI5CLR-AL.00N	10 pz
White KSI5CLR-BL.00W	Brown KSI5CLR-BL.00N	5 pz



CERTIFICATION

THE MAGNETIC CONTACTS REPRESENTED ARE THE ONLY CERTIFICATES ANTI MASKING EN 50131 - Grade 3 - class IV



Ksenia

security innovation



gemino expandable,
gemino 4
vigilo

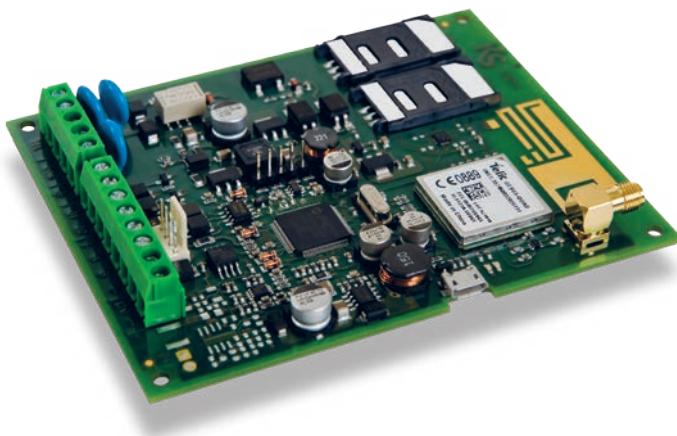
THE COMMUNICATION & PROGRAMMING SYSTEMS

gemino expandable UNIVERSAL* GSM/GPRS Communicator gemino4 UNIVERSAL* GSM/GPRS Communicator (4 programmable inputs)

product code KSI4100010.300 - gemino expandable PCBA only
KSI4100010.310 - with Slim "double-use" plastic case (gemino expandable)
product code KSI4100020.300 - gemino 4 PCBA only
KSI4100020.310 - with Slim "double-use" plastic case (gemino 4)

102

COMMUNICATION & PROGRAMMING SYSTEMS / gemino



MAIN FEATURE

- **Voltage:** 13,8 Vdc
- **Consumption:** 80 mA stand-by, 250mA max
- **GSM line:** GSM/GPRS Telit BGA module 22x22 mm (designed in Italy) Quad-Band (850-900-1800 and 1900 MHz)
- **Outputs:** 2 OC on board (GSM failure and PSTN absence)
- **Inputs:** Up to 5/10 programmable on the expander module
- **Simulated PSTN line:** line voltage: 40V, loop current: 20mA, programmable line tone, ring voltage: 120Vac
- **Line selection:** DTMF
- **Operative temperature:** +5°C to +40°C
- **PCB dimensions:** 92x113x20 mm
- **Max. overall – dimensions:** 140x102x30 mm
- **Weight:** 170 g

COMPLIANCE

Europe CE



* It may be associated with any model / brand of Control Panel, even if they are without voice dialer.

gemino dal latino significa unire strettamente, mettere uno accanto all'altro.
gemino derives from Latin and means closely related/linked or to put one next to the other.

gemino is a Bi-directional Universal GSM/GPRS COMMUNICATOR specifically developed for Professional Security applications, even though its flexibility enables its use in many telecom/communication, industrial and residential applications, basically anywhere there is a need to transmit signals in a reliable manner and in absence of the fixed line (or as alternative to it) in order to protect sensitive installations (like as, but not limited to, industrial plants, solar installations, rural and marine installations, incubators, glasshouses, etc.).

As an interface, **gemino** steadily controls the status of the PSTN line: in case of its absence, all linked communication devices will use the simulated phone line delivered by the communicator, therefore allowing to make and receive calls via GSM with a very high-quality audio output thanks to the adoption of a digital audio channel.

With **gemino4** and **gemino expandable** versions it is also possible to send signals through the contact-ID protocol via GSM net, i.e. to Central Monitoring Stations. Contrary to many other devices currently available in the marketplace, **gemino** integrates the GSM antenna directly on the PCB, making the external antenna basically redundant for the majority of the application while, for particular installations an external antenna can be added and the Communicator can always manage and provide the best quality signal between the two; moreover, other interesting news is that **gemino** offers the possibility to manage 2 different SIM cards, even from 2 different providers, monitoring continuously the status of the GSM network according to three different simultaneous modes:

1. measuring the signal level and quality

2. verifying the proper registration to the GSM network
3. detecting the presence of interferences (jamming)

In short **gemino** is in a position to steadily choose which antenna and which SIM card (or provider) has to be used so as to assure the best possible GSM coverage for Security system applications (Patent pending).

Additionally, for all pre-paid SIM Cards, the Communicator includes the credit control and the automatic update of each SIM Card's expiring date upon each new re-charge.

gemino can be programmed in few seconds via a PC linked through the USB port or by using the same port to upload the program from a flash memory with no need to take a PC with.

Quite distinctively, it is equipped with the communication KS-BUS in order to be linked with new LCD Keypad of the **ergo** series: through the Keypad is possible to control the **gemino**, make voice calls and program all **gemino**'s parameters; on the BUS is also possible to link the expander modules, thus offering the possibility to manage up to 10 inputs to activate SMS, voice calls or email, and 2 outputs, basically transforming a simple interface into a powerful communicator.

At last, it integrates on board 2 OC (open collector), which can be used to indicate a status (e.g. absence of a PSTN or GSM issues) or programmed to be remotely activated by SMS or CLIP taking advantage to the user recognition feature.

MAIN FUNCTIONS

- It decodes the Contact ID protocol and sends SMS up to 8 programmed numbers and/or emails to your smart phone, PC or to a Central Monitoring Station
- It incorporates a VOICE DIALLER and a TTS (text-to-speech) Converter
- It remotely manages outputs in order to activate or deactivate any desired automation or Home Appliance in general
- It delivers a solid back-up line to the PSTN line
- It has 2 open collector output, 500 mA rated
- Thanks to an expander module auxi, it can manage up to 10 inputs (only expandable version)
- It has 4 programmable inputs (only gemino4 version)
- Easy Scan. This function allows the user to know the best mobile operator in the plant location, even before any SIM insertion.
- Simulated PSTN line's generator for the connection to any Control Panel
- Decoding of the contact ID protocol and transmission via SMS and/or email (it allows to receive an SMS or emails for each Control Panel's zone)

- Transmission signaling through Contact-ID protocol via GSM net to Central Monitoring Stations (**gemino4** and **gemino exp.**)
- Decoding up to 200 Contact ID events
- SMSs and emails can have a length up to 128 characters, for a total of 200 messages associated to contact ID events
- Slots for 2 SIM cards (not included)
- Embedded Antenna + connector for external Antenna with automatic signal selection
- Micro USB port for programming and control
- High quality digital audio
- KS-BUS interface
- Linkable on the BUS to an ergo Keypad and up to 2 expander modules
- It can be managed and programmed also via system Keypad ergo by means of a dedicated cable (optional)
- Up to 10 inputs (using auxi expansion modules)
- Voice communicator with the possibility to record up to 200 messages for a total of 700 s
- Voice message recorder through the Keypad or through a TTS engine available from PC

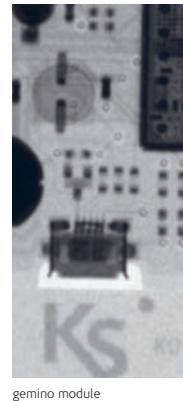
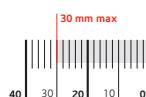
- On board outputs: 2 OC up to 500 mA programmable as remote control on your mobile phone (via SMS or user recognition)
- Phone book; up to 100 phone numbers
- Programmable via PC through USB port or by a flash memory upload or via system Keypad ergo
- GSM Jamming Detection
- Telit EasyScan®
- Credit control on both pre-paid SIM cards

HOW TO ORDER

- **KSI4100010.300** - gemino expandable (PCBA only)
- **KSI4100010.310** - gemino expandable with slim plastic housing
- **KSI4100020.300** - gemino4 (PCBA only)
- **KSI4100020.310** - gemino4 with slim plastic housing

ACCESSORIES

- **KSI7401000.010** - White metal cabinet for gemino stand-alone version
- **KSI7302000.010** - "slim" plastic box
- **KSI7212012.000** - Acid-lead battery 12 Vdc-1,2 Ah



vigilo Alarm Receiving and Centralizing Software

Product code **KSI7810500.001** - vigilo-pro software

104

ALARM RECEIVING AND CENTRALIZING SOFTWARE / vigilo



TECHNICAL DATA

- CPU: Intel® Braswell Dual-Core Celeron N3000 Processor
- RAM: 2 GB Up to 8 GB DDR3L at 1600MHz
- Hard Disk: 64 GB M.2 SSD
- Graphic: Intel® HD Graphics
- LAN: 10/100/1000/Gigabits Mbps
- Wireless: 802.11 b/g/n, Bluetooth V4.0
- I/O: 2 x USB 3.0, 1 x Kensington Lock, 1 D-sub or 1 MiniDP, 1 x HDMI Port, 1 x RJ45 LAN, 2 x USB 3.1 Gen 1 Port, 1 x DC-in, 1 x Audio Jack (Mic in/Headphone out)
- Power: 45 W Power Adapter
- Dimensions: 13,1 x 13,1 x 4,2 cm (h x l x p)

HOW TO ORDER

- **KSI7810500.001** - vigilo-pro software - up to 500 systems

OPTIONALS

- **KSI7810000.000** - Online service contract for one year (after the first)
- **KSI7810000.100** - Ticket for each technical assistance out of contract

COMPLIANCE

Europe - RoHS, CE

vigilo is the Alarm Receiving and Centralizing software by Ksenia Security.

Thanks to the enormous opportunities offered by their lares IP panels, directly connected to the network without need of additional transmission devices, or to the gemino GSM/GPRS Communicator, the next logical step offered by Ksenia is to allow, for example, Headquarters of a Credit Institute to centralize a very significant number of systems as well as to allow selected Ksenia installers to offer new and important services to their customers (for example tele-service and tele-maintenance). vigilo provides three levels of access (installer, operator, user) and does not require any application: just open an internet browser and connect to the IP address of the panel on which it is installed to display the system status. It also works with all operating systems including Android tablet or MAC OS.

The vigilo SW (not to be confused with the CMS-Central Monitoring Station SW) it is designed to be very simple, effective and still able to receive any events from systems connected to it. The number of such systems can reach up to 500 in "vigilo pro" version (professional).

Basically, it is organized into three sections:

- **alert**: section dedicated only to those events programmed to be of priority such as alarms.
- **events**: section dedicated to receiving all events, even technical
- **maps**: all systems connected to the SW are geo-localized on Google Maps to visualize them and enable the installer to define the most convenient itinerary depending on the intervention priority.

Both SW versions are preferably supplied on an industrial compact size PC, already pre-loaded, tested and protected in order to present to the installer a Plug&Play kit. This requires only to be powered and linked to the IP to give immediate access to the network of IP platforms lares.

SW and HW supports are warranted and included in the price for a period of one year starting from the purchasing date.

COMMUNICATION MATRIX

Ksenia security innovation		lares 4.0	gemino IoT	Add-on 2G (lares 4.0 and lares wls)	Add-on 3G (lares 4.0 and lares wls)	Add-on PSTN (lares 4.0 and lares wls)	lares 16IP-48IP-128IP	gemino BUS (lares 16IP-48IP-128IP)	pontis (lares 16IP-48IP-128IP)	gemino 4 gemino exp.
Communications to the user	Vocal Messages		●	●	●	●		●	●	●
	SMS		●	●	●			●		●
	e-mail	●	●	●	●		●			●
Communications to the watches CMS/vigilo	Contact-ID (SIA DC-05)		●	●	●	●		●	●	●
	IP Protocols (SIA DC-09 Level III)	●	●	●	●		●			●
Remote Management Options	Arm/Disarm	APP, WebServer	APP, WebServer	Vocal Menu (through scenario)	Vocal Menu (through scenario)	Vocal Menu	APP, WebServer	Vocal Menu, SMS	-	
	Output management	APP, WebServer	APP, WebServer	Vocal Menu (through scenario)	Vocal Menu (through scenario)	Vocal Menu	APP, WebServer	Caller ID, Vocal Menu, SMS	Caller ID, Vocal Menu	Caller ID, SMS
	Video verification	●	●		●		●			
	Audio verification (listen-in)			●	●	●		●	●	
UP & Download	Programming Software (basis)						●			●
	SecureWeb	●	●	●	●					





Ksenia
security innovation

A large, semi-transparent grayscale graphic occupies the bottom third of the page. It features a circular pattern on the left side resembling a camera lens or a stylized face, and a vertical profile of a human head on the right side.

Mini Bullet
Mini Dome
NVR

VIDEO-SURVEILLANCE AND VIDEO-ANALYSIS SYSTEM

IR Mini Bullet Camera IP

product code **KSV0010140.300** - Mini Bullet IP camera

108

VIDEO-SURVEILLANCE SYSTEMS / mini Bullet



FUNCTIONS DESCRIPTION

Mini Bullet is an IP video-surveillance camera for outdoor / indoor use with 4 MP CMOS sensor in HD with IP67 protection grade and day / night functionality, smart IR, IR distance up to 30m, optical glass lens with higher light transmission, anti-reflective IR lens which increases the transmittance of the infrared 3D DNR (Digital Noise Reduction) H.265, H.264, MJPEG Video format 9:16 IP67 in compliance with ONVIF protocol.

PROGRAMMING

KSV cameras are fully programmable via web interface

TECHNICAL DATA

- Sensor: 1/3", 4.0 Mpx, progressive scan, CMOS
- Lens: 3.6mm @ F1.8
- Angle of view (H): 87°
- Shutter: Auto/Manual, 1/6 ~ 1/8000 s
- Min. Illumination Colour: 0.02 Lux (F1.8, AGC ON)
0 Lux with IR on
- Day/Night: IR-cut filter with auto switch (ICR)
- IR Range: Up to 30m (98 ft) IR range
- S/N: >55dB
- WDR: 120dB
- Noise Reduction: 2D/3D

Video

- Max. Resolution: 2592 × 1520
- Video Compression: H.265/H.264/MJPEG
- Frame Rate: 4MP (2592×1520): Max. 20 fps;
4MP (2560×1440): Max. 25 fps;
3MP (2048×1520): Max. 30 fps;
1080P (1920×1080): Max. 30 fps
- Video Streaming: Triple
- ROI: Supported
- OSD: Up to 8 OSDs
- Motion Detection: Up to 2 areas
- Privacy Mask: Up to 4 areas

Network

- Protocols: L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SNMP, SIP, QoS
- Compatible, Integration: ONVIF, API

Interface:

- Network 1 RJ45 10M/100M Base-TX Ethernet

General

- Power: 12 V DC, or PoE (IEEE802.3 af)
- Power consumption: Max 6.4 W
- Dimensions: (L × W × H) 157.3 × 62.4 × 63 mm
- Weight: 0.45 kg (0.99 lb)
- Working Environment:
-35° C ~ +60° C (-31° F ~ 140° F)
- Humidity 95% RH (non-condensing)
- Ingress Protection IP67

INCLUDING PARTS

- 4 MP IR Bullet Camera IP
- CD (Installaton Manual + software)
- Connector Cover for external Ethernet plug

HOW TO ORDER

- **KSV0010140.300** - IP camera Mini Bullet
- **KSV0030001.000** - Mini Bullet Bracket

IP camera Onvif Protocol

The Ksenia cameras, implements the Onvif protocol, an important industry standardization of IP video, a result of a collaboration between the major industry manufacturers. With this protocol a camera KSV can be integrated into any recording software IP or NVR.

IR Mini Dome Camera IP

product code **KSV0013120.300** - Mini Dome IP camera



FUNCTIONS DESCRIPTION

Mini Dome is an IP video-surveillance camera for indoor / outdoor use with progressive 1 / 2.8 "CMOS sensor, 2MP with 25Fps, mechanical ICR, 3.6mm fixed optics f2.0, brightness 0.01Lux f2.0 (0 with Led ON), IR LED range up to 20mt, 1 LAN 10 / 100Mbps, privacy mask 4 areas, 3D, WDR (120db) basic video analysis, face detection, 12Vdc power supply or PoE <5W and IP66 environmental protection degree, Dimensions Ø110 x 61mm (Ø4.3 " x 2.4")

PROGRAMMING

KSV cameras are fully programmable via web interface

TECHNICAL DATA

- Sensor: 1/2.8", 2.0 Mpx, progressive scan, CMOS
- Lens: 2.8mm
- Angle of view (H): 115°
- Shutter: Auto/Manual, 1/6 ~ 1/8000 s
- Min. Illumination Colour: 0.02 Lux (F2.0, AGC ON)
0 Lux with IR on
- Day/Night: IR-cut filter with auto switch (ICR)
- IR Range: Up to 30m (98 ft) IR range
- S/N: >52dB

Video

- Max. Resolution: 1920 x 1080
- Video Compression: H.265/MJPEG
- Frame Rate:
 - 1080P (1920 x 1080): Max. 30 fps; 720P (1280 x 720): Max. 30 fps;
D1 (720 x 576): Max. 25 fps
- Video Streaming: Triple
- ROI: Supported
- OSD: Up to 8 OSDs
- Privacy Mask: Up to 4 areas

Storage

- Edge Storage: Micro SD, Up to 128 GB

Network

- Protocols: L2TP, IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, SNMP, SIP, QoS
- Compatible, Integration: ONVIF, API

Interface:

- Audio I/O: audio cable
 - Input: impedance 35 k ; amplitude 2 V [p-p]
 - Output: impedance 600 ; amplitude 2 V [p-p]
- Built-in Mic: supported
- Network: 10M/100M Base-TX Ethernet

General

- Power: 12 V DC, or PoE (IEEE 802.3 af)
- Power consumption: 3-5W
- Dimensions: Ø110 x 61 mm (Ø4.3" x 2.4")
- Weight: 0.25 kg (0.55 lb)
- Working Environment:
 - 35° C ~ +60° C (-31° F ~ 140° F)
- Humidity: 95% RH (non-condensing)
- Ingress Protection: IP66

INCLUDING PARTS

- 2 MP IR Mini Dome Camera IP
- CD (Installaton Manual + software)
- Connector Cover for external Ethernet plug

HOW TO ORDER

- KSV0013120.300 - Mini Dome IP camera
- KSV0030002.000 - Mini Dome Bracket

IP camera Onvif Protocol

The Ksenia cameras, implements the Onvif protocol, an important industry standardization of IP video, a result of a collaboration between the major industry manufacturers. With this protocol a camera KSV can be integrated into any recording software IP or NVR.

Ksenia NVR

Network Video Recorder

product code **KSV0021082.300 - NVR**

110

VIDEO-SURVEILLANCE SYSTEMS / NVR



TECHNICAL DATA

VIDEO AND AUDIO

IP Video Input: 8-ch
Two-way audio Input: 1-ch, RCA

NETWORK

Incoming bandwidth: 60Mbps
Outgoing bandwidth: 64Mbps
Remote connection: 128

VIDEO/AUDIO OUTPUT

HDMI Output: 4K (3840 x 2160)/30Hz,
1920 x 1080p/60Hz, 1920 x 1080p/50Hz,
1600 x 1200/60Hz, 1280 x 1024/60Hz,
1280 x 720/60Hz, 1024 x 768/60Hz

VGA Output: 1920 x 1080p/60Hz,
1920 x 1080p/50Hz, 1600 x 1200/60Hz,
1280 x 1024/60Hz, 1280 x 720/60Hz,
1024 x 768/60Hz

Audio Output: 1-ch, RCA

Recording Resolution: 12MP/8MP/6MP/5MP/4MP/3M
P/1080p/960p/720p/
D1/CIF/CIF

Synchronous Playback: 8-ch

DECODING

- Compression: H.265/H.264
- Live view/Playback: 12MP/8MP/6MP/5MP/4MP/3M/
1080p/960p/720p/D1/2CIF/CIF
- Capability: 1 x 12MP @ 20, 1 x 4K @ 30,
3 x 4MP @ 20, 4 x 1080p @ 25,
8 x 720p @ 25, 16 x D1

HARD DISK

- SATA: 1 SATA interface
- Capacity: up to 6TB for each disk

EXTERNAL INTERFACE

- Network Interface: 1 RJ-45 10M/100M
self-adaptive Ethernet Interface
- Network Function: HTTP, TCP/IP, IPV4, UPNP, RTSP,
UDP, SMTP, NTP, DHCP, DNS, IP Filter,
PPPOE, DDNS, FTP, IP Server, P2P
- USB Interface: Rear panel: 2 x USB2.0,
Front panel: 1 x USB2.0
- Alarm In: 4-ch
- Alarm Out: 1-ch

GENERAL

- Power Supply: 12 Vdc
- Consumption (without HDD): 8 W
- Working Temperature: -10° C ~ +55° C
(+14° F ~ +131° F)
- Working Humidity: 10% ~ 90%
- Dimensions: 44 x 260 x 240mm
(1.7" x 10.2" x 9.4")
- Weight (without HDD): 1.12 Kg (2.47 lb)

HOW TO ORDER

- KSV0021082.300 - NVR

FUNCTIONS DESCRIPTION

Ksenia NVR is a device that can capture and record images and video streams from IP cameras. It can manage up to a maximum of 8 IP cameras, has two video outputs, one HDMI and one VGA. It also has 4 inputs and 2 alarm outputs.

On the device it is necessary to put a hard disk (not supplied) with SATA interface with a maximum capacity of 6TB.

IP camera Onvif Protocol

The Ksenia cameras, implements the Onvif protocol, an important industry standardization of IP video, a result of a collaboration between the major industry manufacturers. With this protocol a camera KSV can be integrated into any recording software IP or NVR.





I SISTEMI DI VIDEOSORVEGLIANZA

Sono stati progettati con le seguenti caratteristiche per ridurne l'impatto ambientale:

- Assenza di PVC
- Laminati senza Alogeno e circuiti stampati senza piombo
- Basso assorbimento
- Imballo realizzato per la maggior parte con fibre riciclate e materiali provenienti da fonti rinnovabili

THE VIDEO-SURVEILLANCE SYSTEMS

Are been designed and manufactured for the environment as follows:

- Absence of PVC
- Halogen free laminates and lead-free PCBA
- Low consumption
- Packaging realized mainly with recycled fibers and materials



COMMUNITY



Benvenuti nel nuovo servizio di Ksenia Security dedicato agli Installatori e ai rivenditori professionali Ksenia Security. Dare un supporto tecnico operativo sulle tematiche legate ai nostri prodotti e suggerimenti sulla loro corretta installazione e configurazione è una delle nostre priorità. Registrandovi nella community potrete avere accesso ad un forum completo sui prodotti e i sistemi Ksenia Security.

Welcome to the new service Ksenia Security dedicated to professional installers and retailers Ksenia Security. Give technical support on operational issues related to our products and suggestions on proper installation and configuration is one of our priorities. By registering in the community you will have access to a comprehensive forum for Product and Systems Ksenia Security.

www.kseniasecurity.com



Ksenia
security

www.kseniasecurity.com





Ksenia Security Srl
Strada Provinciale Valtesino, 49
63065 Ripatransone, AP, Italy
tel. +39 0735 751646 / fax +39 0735 652281



Informazioni Generali / info@kseniasecurity.com
Vendite / sales@kseniasecurity.com
Supporto Tecnico / helpdesk@kseniasecurity.com

