

# →AI/FI CATALOGUE





**ELKRON**



# INTRUSION DETECTION

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## OVERVIEW

### INTRUSION DETECTION

#### HYBRID ALARM SYSTEMS

##### →12 MP500/4N

Control unit for small-size systems, equipped with 4 inputs expandable up to 32. 4 splittable sectors, local (USB) and remote (modem) programming from PC. Video proof function. Access via Internet, management via Smartphone/tablet. EN50131 class 2 certified.

##### →12 MP500/8

Multifunctional control unit for medium-size systems, equipped with 8 inputs expandable up to 64, with integrated PSTN telephone dialler. 8 splittable sectors, local (USB) and remote (modem) programming from PC. Remote management through application sw, video proof function. Access via Internet, management via Smartphone/tablet. EN50131 class 3 certified.

##### →13 MP500/16

Multifunctional control unit for medium-large size systems, equipped with 8 inputs expandable up to 128, with integrated PSTN telephone dialler. 16 splittable sectors, local (USB) and remote (modem) programming from PC. Remote management through application sw, video proof function. Access via Internet, management via Smartphone/tablet. EN50131 class 3 certified.

##### →15 WIRED EXTENSIONS

##### →15 ACCESSORIES

##### →17 INTEGRABLE CAMERAS ON IT500WEB INTERFACE

##### →18 WIRELESS EXTENSIONS **NEW**

##### →25 MR16 TWO-WAY WIRELESS INTERFACE

The MR16 wireless module allows to add wireless devices to a wired system. It can be connected to the inputs and outputs of any wired control unit and manage several wireless devices to expand the existing system. The MR16 wireless module can manage up to 16 devices, including: opening detectors, volumetric sensors, 4 sirens (of the outdoor and/or indoor type), 8 remote controls.

#### WIRELESS ALARM SYSTEMS

##### →28 CR200 GSM

Wireless system packed with simple plug & play functionality, with the design for easy installation and easily self-taught.

#### VOLUMETRIC DETECTORS INDOOR DETECTORS

##### →36 IR15 - IRP15 | **NEW**

Digital infrared passive volumetric detector

##### →37 DT15 - DT15AM | **NEW**

Double-technology detectors

#### OUTDOOR DETECTORS

##### →39 DT16 |

Double-technology outdoor detector, BLIND protection, anti-masking function, 8 m range

##### →39 DT17 |

Double-technology outdoor detector, Pet immunity and Anti-masking, 10 m range



**PERIMETER DETECTORS**

**STRUCTURAL PROTECTIONS**

→42 GD03/GD05PL | Glass break detector

→42 ESD30 | Seismic detector for doors and windows

→42 VSD3 | Seismic detector for doors and windows with vibration sensor

→43 MS04 | Vault detector for the protection of reinforced concrete structures, safes, armoured cabinets

→43 MS04PK | Vault detector for the protection of safes with cover patch device

**CONTACTS**

→44 Roller shutter contacts

→45 Magnetic contacts for pivoting doors

→45 Magnetic surface contacts

→46 Flush-mounted magnetic contacts

→47 Inertial detector

**OUTDOOR PROTECTIONS**

**INFRARED BARRIERS AND COLUMNS**

→50 EL20 | Indoor/outdoor barrier | 4 models with height from 0.5 to 2 m | Range up to 10 m indoors and 20 m outdoors

→52 EL15RT | Synchronised outdoor barrier with disqualification circuit | Max. range 100 m

→53 EL60RT | Indoor/outdoor active infrared barrier 2 models with 60 and 120 m outdoor range (from 120 to 240 m indoor)

→54 SP60 | Anodised aluminium columns for EL15/EL60 barriers. Available in two models, with single and doubledirection with height from 1 to 3 m

→55 SP60 | Accessories

**MICROWAVE BARRIERS**

→56 MWA60R/T | Outdoor barrier with automatic compensation and disqualification | Range 60 m

**MICROWAVE BARRIERS**

→57 MWA120RT | Outdoor barrier with automatic compensation and disqualification | Range 120 m

→58 MW30RT | Outdoor barrier with 4 modulating channels | Range 180 m

**DUAL TECHNOLOGY BARRIERS**

→59 DT250/2RT | Dual technology barrier, microwave + 4 active IR beams. Modulation over 4 channels. Range 250 m

**SIRENS**

**OUTDOOR SIRENS**

→62 HPA703XP | Outdoor siren

→63 HPA700M - HPA700P Self-powered sirens

**INDOOR SIRENS**

→65 HP375M | Self-powered siren with metal casing | 117 dB

→65 HPA100 | Siren with plastic casing | 110 dB. Self-powered version HPA100A

**COMMUNICATORS**

**GSM COMMUNICATORS**

→69 CT10-M | Voice synthesis GSM communicator

→69 CT12-M/B-F | CT12-M/B 4-channel GSM sequence switch

→70 CT11-M | Dual-standard GSM/PSTN communicator | 12 numbers

**PSTN COMMUNICATORS**

→71 CT06 | PSTN communicator | 2 alarm inputs | 12 numbers | 2 remote controls

**ACCESSORIES**

→74 Activation systems

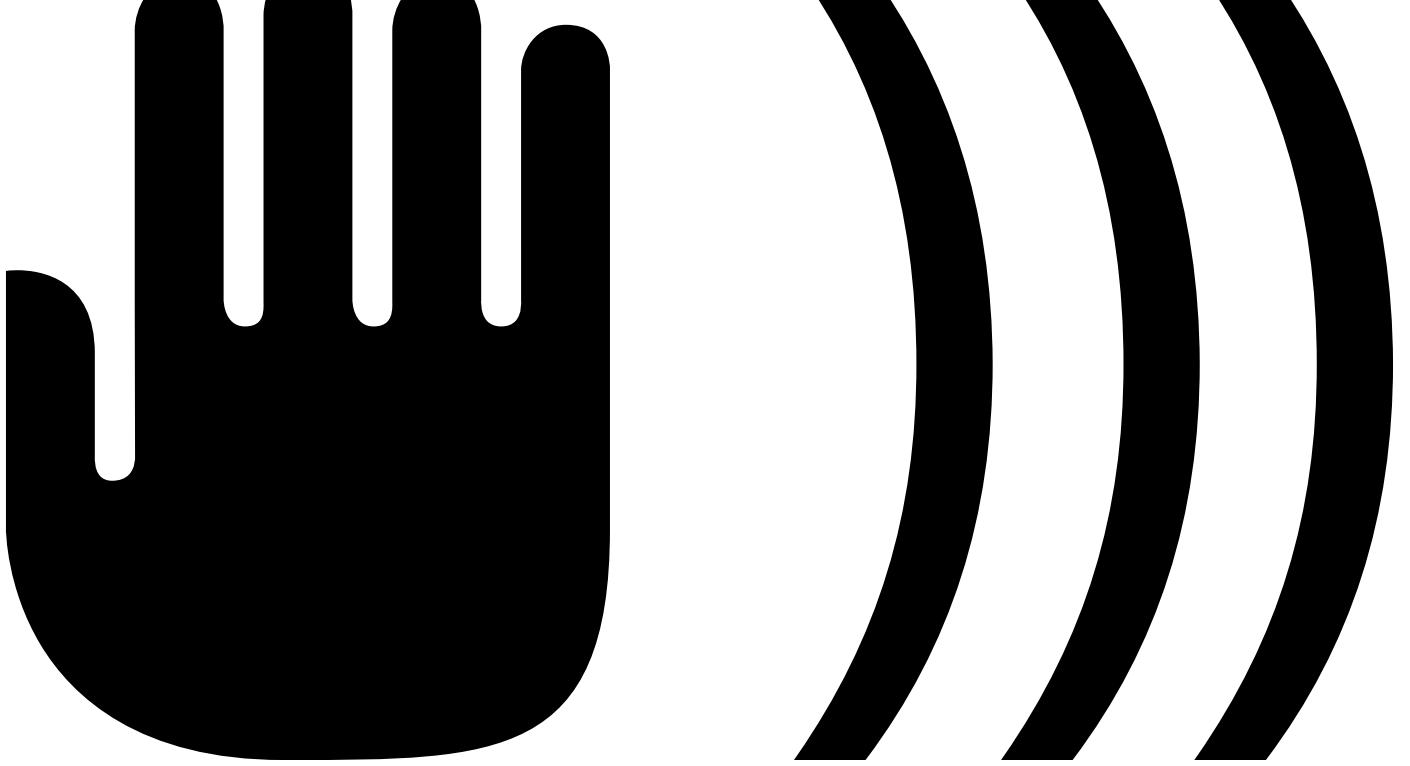
→75 Key readers adaptors

→76 Transmitters/alarm pushbuttons

→76 Batteries

→77 Power supply units

HYBRID SYSTEMS	CONVENTIONAL SYSTEMS
WIRELESS SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION
VOLUMETRIC DETECTORS	DIGITAL SYSTEMS
PERIMETER DETECTORS	EXTINGUISHING SYSTEM
OUTDOOR PROTECTIONS	WIRELESS STAND-ALONE SYSTEM
SIRENS	GAS DETECTION SPECIAL DETECTORS
COMMUNICATORS	VISUAL-ACOUSTIC INDICATORS
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→HYBRID  
ALARM  
SYSTEMS





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- MP500/4N
  - MP500/8
  - MP500/16
- 25 **MR16 TWO-WAY WIRELESS INTERFACE**

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		ACCESSORIES		COMMUNICATORS		SIRENS		OUTDOOR PROTECTIONS		PERIMETER DETECTORS		VOLUMETRIC DETECTORS		WIRELESS SYSTEMS		HYBRID SYSTEMS	
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS		WIRELESS STAND-ALONE SYSTEM		EXTINGUISHING SYSTEM		DIGITAL SYSTEMS		UNIVERSAL BASES FOR DUCTED DETECTION		CONVENTIONAL SYSTEMS			



## MP500 SYSTEM



## MP500 SYSTEM

### Main features of the system

The new MP500 system is the ideal solution to create intrusion alarm systems in different environments.

It is easily scalable to meet home, business or industrial needs; it can be managed through mobile devices with Internet connection (Smartphones, Tablets), it can be integrated with video surveillance cameras and building automation systems with standard Konnex.

The modular system allows to use the same peripheral devices (readers, keyboards, interfaces, expansion modules, etc.) with all the control units of the range.

All control units have the same communication protocol, can be installed with the same procedure and can be managed in remote through HI-CONNECT SW.

#### → Very easy management

Thanks to the possibility to establish connections with Smartphone, tablet, land line phone, LAN and WAN, the MP500 system is easy to manage both locally and remotely, both by the installer and by the end customer. The new web interface, the [www.mylkronhome.com](http://www.mylkronhome.com) portal, the Elkron cloud ([www.cloud.elkron.com](http://www.cloud.elkron.com)) and the exclusive Hi-Connect software developed by Elkron allow to manage, programme and check the whole system also remotely, with the additional possibility to store the whole programming on USB drive and to check in real time the main system information.

#### → Highly flexible

Easy to install, fast and flexible. These are the key strengths of the MP500 system. The expandable inputs make it the ideal solution for all installation types, either small-, medium- or large-size ones. Adding up to 8 IP cameras, it is possible to combine the intrusion alarm and video surveillance functions into one single system. Thanks to the special speak/listen keypad, the MP500 system can perform a room control function in the protected area.

#### → Wide customisation options

The different functions of MP500 system, including video surveillance, fire alarm, building automation, emergency, proof of life, allow the users to customise the system according to their needs.

#### → Landline/mobile phone management

Simple and complete system management. User-friendly and convenient voice menu. Instant identification of the area concerned by an alarm in case of telephone call. Room control function is available with speak/listen keypads.

#### → Hi-Connect remote management software

Control unit remote management, check and programming via PSTN/GSM telephone networks and LAN/WAN

#### → Connection to surveillance centres

Through digital protocols/in DTMF and/or IP

#### → Remote management

Through PSTN, GSM, LAN, WAN networks. Possibility to send voice, digital and SMS alarms

#### → Remote DMTF control management

With voice guide and speak/listen room control and Caller ID management

#### → SMS control management

Service activation via SMS

	MP500/4-N	MP500/8	MP500/16
Standard/expandable inputs	4/32	8/64	8/128
Standard/expandable outputs	2/11	6/27	6/54
PSTN transmitter	Optional (ITL500)	YES	YES
Multi-protocol digital transmission	YES	YES	YES
Voice message transmission	Optional (SV500)	Optional (SV500)	Optional (SV500)
Timetable programmer	YES	YES	YES
Software management	YES	YES	YES
IP management	Optional	Optional	Optional
IP VIDEO management	Optional	Optional	Optional
GSM/GPRS transmission	Optional (IMG500)	Optional (IMG500)	Optional (IMG500)
LCD keypad	YES	YES	YES
Touch keypad	YES	YES	YES
Wireless extension	Optional (ER500)	Optional (ER500)	Optional (ER500)
Partition of the system in zones	4	8	16
Partition of the system in areas	1	4	4
KNX® Interface	NO	Optional	Optional
WEB Interface	Optional (IT500WEB)	Optional (IT500WEB)	Optional (IT500WEB)
Events log	1000 event log	1000 event log	1000 event log
EN50131 certification	Class 2	Class 3	Class 3

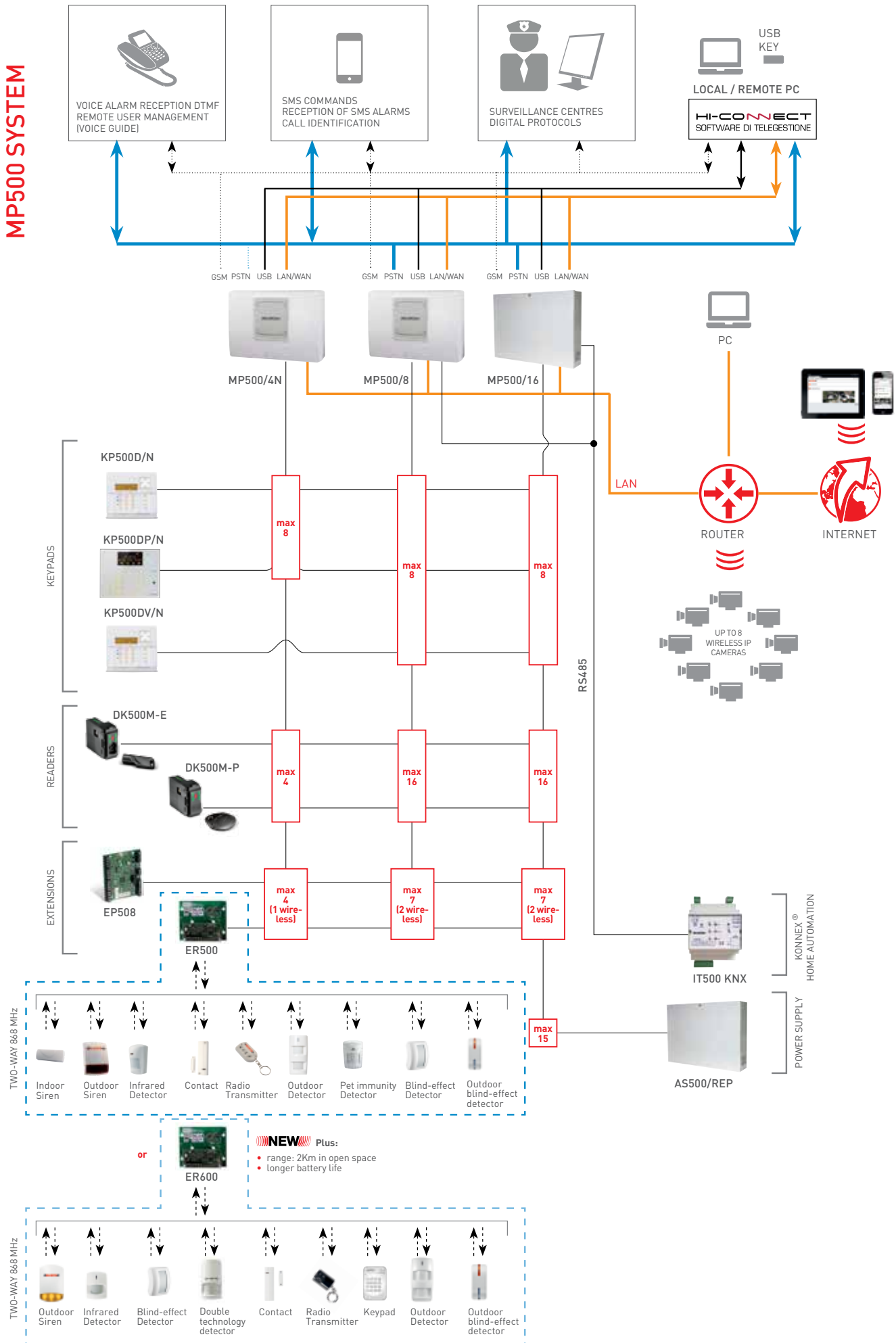


## MP500 SYSTEM

### Main features of the system

- **Fast system setup:** to acquire the devices it is not necessary to set the addresses with dip switch. It is sufficient to press their programming button and the control unit will send to the device the assigned address and the factory settings.
- **Service keypad:** it is possible to connect to the control unit a temporary service keypad, through a dedicated connector, for programming or maintenance. The service keypad can be disconnected from the system after installation, without needing to program the control unit again.
- **Wide input configuration capability:** each input can be configured according to type (seven) and specialisation (twenty). Each control unit input, keypad, extension and reader can also manage Elkron VSD3 and MMZ01 inertial detectors and Elkron MF01 and MF02 roller shutter detectors.
- **WIRELESS device management:** possibility to integrate into the wired system several wireless devices: infrared, contact, remote control, indoor siren, outdoor siren.
- **Advanced technological alarms:** when a “technological” event occurs, for example the flood of a room, the system can activate specific actions (for example the closure of the water solenoid valve) and send the corresponding alarms. In order to manage different situations, the system is provided with three outputs management types.
- **Rescue call:** the system, with a dedicated input, can send a phone call with a voice message concerning the help request. If the system is equipped with a KP500DV/N voice keypad, it will be possible to communicate in hands-free mode with the person who sent the alarm.
- **Door opener:** it is possible to control an electric lock with an output configured as “door opener”. In this way it is possible to limit the access to specific areas only to authorised personnel. Date, time and user requesting the opening are stored in the control unit.
- **Voice guide for remote control:** the system guides the telephone interaction with the user through voice messages.
- **Advanced alarm voice calls:** possibility to send voice calls with specific messages for each zone and/or inputs.
- **Service message broadcast:** possibility to send diagnostic information to the user through hands-free voice messages sent by the voice keypad.
- **Video function with web server:** through the new IT500WEB interface it is possible to manage up to 8 IP cameras freely associated to one or more system inputs. The images recorded by the cameras can be displayed and managed remotely through mobile devices, such as PCs, Smartphones or tablets, by simply connecting to and logging in **www.mylkronhome.com** portal. Moreover, it is possible to consult the “Video surveillance log”, that allows to display and save the images recorded by cameras after an alarm event has taken place. Every intrusion alarm, tampering and sector ON/OFF event generates an instantaneous e-mail, which is sent to the preset e-mail addresses. If the alarm has been triggered by an intrusion event and the relative input is linked to a video camera, a recording of the event will be generated. The recording contains 15 low-resolution images (5 before and 10 after the alarm) or 8 high-resolution images (4 before and 4 after the alarm). The images are taken at intervals of one second from one another. Once the recording has been completed, a second e-mail is sent containing the first image recorded after the alarm event was triggered. The event log can even be consulted in streaming mode.
- **Video function with CLOUD:** the check of images recorded by the cameras takes place also via web through **www.cloud.elkron.com** portal and the iOS® and Android App which can be downloaded by the stores. The cameras connect to the Internet through a standard ADSL connection, using the home Wi-Fi or wired network, to be reached through the web. In this way you can connect to your cameras and view the images in real time from wherever you are through Smartphones, tablets or PCs.
- **Remote management via LAN/WAN**
  - Connection speed 115,200 baudrate
  - Capability to enter static IP addresses to send alarms
  - Programmable alarm transmission
  - Malfunction notification management (connection impossible), with event stored in control unit log file
- **System data transfer:** the installer can prepare control unit programming from their PC, save the settings on a USB memory drive, then go to the customer (just with the memory drive) and update control unit software. The memory drive can also be used for other useful functions:
  - Edit programming at the customer’s premises by using the keypad, save the settings on the memory drive and then update the data at the office on Hi-connect
  - If previous programming was stored on the memory drive, the control unit can be replaced at the customer’s premises without reconfiguring the system
  - If 2 systems have to be created using the same keys and/or user codes, the memory drive can be used to duplicate key codes and/or user codes
  - To improve safety, the memory drive can be used as a BACKUP drive for configurations and codes.

**MP500 SYSTEM**



AI	FI	HYBRID SYSTEMS	WIRELESS SYSTEMS	VOLUMETRIC DETECTORS	PERIMETER DETECTORS	OUTDOOR PROTECTIONS	SIRENS	COMMUNICATORS	ACCESSORIES	SALES NETWORK	ALPHABETIC INDEX
INTRUSION DETECTION	FIRE DETECTION	CONVENTIONAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION	DIGITAL SYSTEMS	EXTINGUISHING SYSTEM	WIRELESS STAND-ALONE SYSTEM	GAS DETECTION SPECIAL DETECTORS	VISUAL-ACOUSTIC INDICATORS			



## MP500 SYSTEM

### Control units

**MP500/4N item no. 80MP1N00111**

**Control unit with 4 inputs expandable up to 32.**

**Remote management, video proof and management of wireless devices.**

- Multi-language menu: Italian, English, French, German, Spanish, Portuguese, Suomi, Polish, Slovenian
- 4 programmable inputs + 1 dedicated 24h tamper input; expandable up to 32 (wired/wireless)
- 2 programmable outputs (1 relay + 1 OC 150mA) expandable up to 5
- Splittable into 4 zones
- 1 fieldbus for connection of: max. 2 LCD keypads, max. 4 key readers
- Management of 32 user codes (from 4 to 6 digits)
- 1000 event log
- Weekly timetable programmer, 8 daily controls
- Telegestibile a distanza via modem
- Telephonic transmission to 12 telephone numbers, through digital protocols and/or modem
- Speech synthesis interface to send alarm messages
- Voice guide for DTMF remote controls
- GSM interface with antenna that can be placed inside the control unit
- DTMF controls for remote system management
- Ethernet interface for connection with LAN or ADSL modem
- PSTN interface ILT500
- Web interface and user app for video management (up to 8 IP cameras) and intrusion alarm from remote mobile devices (PCs, tablets, Smartphones)
- Wireless interface for hybrid management of the system
- USB interface for connection to a PC for local programming, USB drive interface (standard) for storage and retrieval of system programming
- HI CONNECT software application for programming and remote management
- Case material: white ABS
- Battery: 12 Vdc - 7 Ah
- Switching power unit: 1,5 A
- Dimensions: (H x W x P) 238 x 340 x 90 mm
- EN50131 class 2 certification



MP500/4N

**MP500/8 item no. 80MP4L00111**

**Control unit with 8 inputs expandable up to 64 with integrated PSTN telephone dialler.**

**Remote management, video proof, management of wireless devices, bus repeater.**

- Multi-language menu: Italian, English, French, German, Spanish, Portuguese, Suomi, Polish, Slovenian
- 8 programmable inputs + 1 dedicated 24h tamper input; expandable up to 64 (wired/wireless)
- 6 programmable outputs (2 relay + 4 OC) expandable up to 27
- System splittable up to 8 zones
- Management of 32 user codes (from 4 to 6 digits) and 32 keys (electronic keys DK30 or proximity keys DK50)
- 1000 event log
- Weekly timetable programmer, 8 daily controls
- 1 fieldbus for connection of: max. 8 display keypads, max. 7 extensions, max. 16 key readers
- Direct connection for service keypad
- Telephonic transmission to 12 telephone numbers, through digital protocols and/or modem
- Voice synthesis interface: factory recorded messages for each system input/zone/event, sound BUS for voice and room control functions through keypad (KP500DV/N)
- Voice guide for DTMF remote controls
- GSM interface with antenna that can be placed inside the control unit
- Ethernet interface for connection with LAN or ADSL modem (12 static IP addresses)
- Web interface and user app for video management (up to 8 IP cameras) and intrusion alarm from remote mobile devices (PCs, tablets, Smartphones)
- Wireless interface for hybrid management of the system
- USB interface for connection to a PC for local programming
- USB drive interface (standard) for storage and retrieval of system programming
- KNX interface for interaction with Konnex® building automation system
- HI CONNECT software application for programming and remote management
- Battery: 12 Vdc 7 Ah
- Switching power unit: 1,5 A
- Dimensions (H x W x P): 238 x 340 x 90 mm
- EN50131 class 3 certification



MP500/8

## MP500 SYSTEM

### Control units

MP500/16 item no. 80MP5L00111

Control unit with 8 inputs expandable up to 128 with integrated PSTN telephone dialler. Remote management, video proof, management of wireless devices, bus repeater.

- Multi-language menu: Italian, English, French, German, Spanish, Portuguese, Suomi, Polish, Slovenian
- 8 programmable inputs + 1 tamper input; expandable up to 128 (wired/wireless)
- 6 programmable outputs (2 relay + 4 OC); expandable up to 54
- System splittable up to 16 zones
- System splittable up to 4 areas
- Management of 64 user codes (from 4 to 6 digits) and 64 keys (electronic keys DK30 or proximity key DK50)
- 1000 event log
- Weekly timetable programmer, 8 daily controls
- 1 fieldbus line for connection of: max. 8 keypads, max. 16 extensions, max. 16 key readers
- Direct connection for service keypad (KP500DV)
- Telephonic transmission to 12 telephone numbers, through digital protocols and/or modem
- Voice synthesis interface: factory recorded messages for each system input/zone/event, sound BUS for voice and room control functions through keypad
- Voice guide for DTMF remote controls
- GSM interface with antenna that can be placed inside the control unit
- Ethernet interface for connection with LAN or ADSL modem
- Web interface and user app for video management (up to 8 IP cameras) and intrusion alarm from remote mobile devices (PCs, tablets, Smartphones)
- Wireless interface for hybrid management of the system
- USB interface for connection to a PC for local programming
- USB drive interface (standard) for storage and retrieval of system programming
- HI CONNECT software application for programming and remote management
- Battery: 12V@ 17A
- Switching power unit: 3,4 A
- Dimensions (H x W x P): 350 x 490 x 145 mm
- EN50131 class 3 certification



MP500/16

## PRODUCT KITS

MP500/4N INTRUSION ALARM KIT item no. 80KT3N00111

Kit composed by 1 MP500/4N control unit + 1 KP500D/N keypad

MP500/8 INTRUSION ALARM KIT item no. 80KT1N00111

Kit composed by MP500/8 control unit + 1 KP500D/N keypad + 1 SV500/N speech synthesis module

PRODUCT	QUALITY CERTIFICATION MARKS	
MP500/4N		EN50131 class 2
MP500/8		EN50131 class 3
MP500/16		EN50131 class 3



## MP500 SYSTEM

### Control devices

KP500D/N item no. 80KP7100111

Remote keypad with alphanumeric LCD, 2 lines per 16 characters

- Min./max. operating voltage: 9 VDC - 15 VDC
- Contrast and brightness adjustment
- 9 system-state warning LEDs
- 12 alphanumerical keys
- 7 navigation keys, 3 rapid command keys
- Buzzer with adjustable volume
- 2 aux inputs
- The keypad is protected against opening and removal and it is powered by the BUS connecting it to the control unit
- Dimensions (W x H x D): 151 x 125 x 29 mm
- EN50131 class 3 certification



KP500D/N

KP500DV/N item no. 80KP7200111

Remote keypad with alphanumeric LCD, 2 lines per 16 characters and speech synthesis module

- Min./max. operating voltage: 9 VDC - 15 VDC
- Contrast and brightness adjustment
- 9 system-state warning LEDs
- 12 alphanumerical keys
- 7 navigation keys, 3 rapid command keys
- Buzzer with adjustable volume
- Microphone, loudspeakers and audio connection
- The keypad is protected against opening and removal and it is powered by the BUS connecting it to the control unit
- Dimensions (W x H x D): 151 x 125 x 29 mm
- EN50131 class 3 certification



KP500DV/N

KP500DP/N item no. 80KP7400111

Touch keypad with integrated proximity reader

- OLED-technology graphic display with brightness adjustment
- Indication of the system status through graphic icons
- 7 navigation keys
- 4 function keys
- 12 alphanumerical keys
- 4 warning LEDs
- Buzzer with adjustable volume
- Transponder reader for proximity keys
- 2 aux inputs
- Approach sensor
- The panel is protected against opening and removal and it is powered by the BUS connecting it to the control unit
- Dimensions (H x W x D): 160 x 130 x 23.5 mm
- EN50131 class 3 certification



KP500DP/N

DK500M-E item no.

Electronic key reader (mod. DK50)

- 5 LEDs: 4 LEDs for system status visualisation + 1 for alarm memory
- 2 programmable inputs
- Compatible with whole range of Elcron residential electrical system adaptors
- Available in white version DK500M-E/B item no. 80DK5100211



DK500M-E

DK50 item no. 80DK5400211

Unique code digital electronic key (over 1,099 billion combinations possible)

- Material: ABS
- Customisable with colour inserts (DK30 50 kit)



DK50

DK500M-P item no. 80DK5200211

Electronic key reader (mod. DK30)

- 5 LEDs: 4 LEDs for system status visualisation + 1 for alarm memory
- 2 programmable inputs
- Available in white version DK500M-P/B item no. 80DK5300211



DK500M-P

DK30 item no. 80DK3500111

125 KHz proximity key (over 281,000 billion combinations)

- Material: ABS
- Protection degree IP68 - IK08
- Customisable with colour inserts (DK30 50 kit)



DK30







## MP500 SYSTEM

### Accessories

#### AS500/REP item no. 80PS5500111

##### Additional power unit with bus signal repeater and expansion board

The additional power unit is an optional device of MP500 system. It is equipped with an electronic board that includes an EP508 add-on directly connected to the control unit BUS, a repeater module for expanding and insulating the range of the control unit BUS and an additional power unit for powering the devices connected to the system.

- 8 programmable inputs
- 3 programmable outputs (1 relay 2 OC)
- 2 outputs for auxiliary power units
- 1 power unit output for self-powered devices
- Connectors for battery and power unit
- Button and LED for acquisition
- Metal container
- Battery: 12Vdc 17Ah
- Switching power unit: 3,4 A
- Dimensions (H x W x D): 350 x 490 x 145 mm



AS500/REP

#### HI-CONNECT item no. 80SW2400111

Elkron control unit configuration software, user-friendly and easy to understand, compatible with Windows™ operating systems. The software enables to record and classify data on customers, systems and operators. It also allows: remote control unit programming, control unit program download, program verification and editing, program upload to control unit, system event log download, real time check of system, inputs, outputs, and battery and fuse status. Built-in function for technical alarm reception (modem needed). This multi-line software allows to manage several remote connections simultaneously.

From version 2.70 onwards it is possible to manage the IT500WEB interface together with the control unit.



HI-CONNECT

#### X KP CABLE item no. 80CV3010111

- Cable for service keypad connection

#### GSM 1 ANTENNA item no. 80AN0300111

##### Remote antenna

- GSM remote antenna 1 is supplied with bracket, screw anchors for wall mounting and 5 m cable assembly with SMA-M connector compatible with GSM IMG500 module. It is useful when the control unit position does not ensure a sufficient field coverage for the GSM module.



ANTENNA GSM 1

#### GSM 2 ANTENNA item no. 80AN0400111

##### Remote antenna for metal casing

- Antenna for metal casing with SMA-M connector compatible with the GSM IMG500 module. To be used with GSM module IMG500 inside the MP500/16 control unit.



ANTENNA GSM 2

#### IT500WEB item no. 80IT2710111

##### Web interface

The IT500WEB interface is an optional device with an integrated web server function for connecting MP500 control units to the LAN network via an ADSL modem router.

- Multi-language menu: Italian, English, French, German, Spanish, Portuguese, Suomi, Polish, Slovenian, Dutch
- It allows the user, from any device with web browser access (PCs, tablets, Smartphones), to securely access a number of typical functions of intrusion alarm, such as: ON/OFF, configuration of inputs/sectors, exclusions and several parameterisations.
- It supports up to 8 IP cameras freely associated to one or more inputs of the control unit. The images recorded by the cameras can be viewed and managed remotely through mobile devices, such as PCs, Smartphones or tablets, by simply connecting to and logging in [www.mylkronhome.com](http://www.mylkronhome.com) portal.
- It allows the installer to use a PC with web browser access and the Hi Connect software application installed (vers. 3.50 and later) to remotely manage the MP500 control unit.
- Push notification sending.



IT500WEB





## MP500 SYSTEM

### Wireless extensions

ER500 item no. 80WL5010111

Hybrid two-way wireless extension on bus for MP500 systems

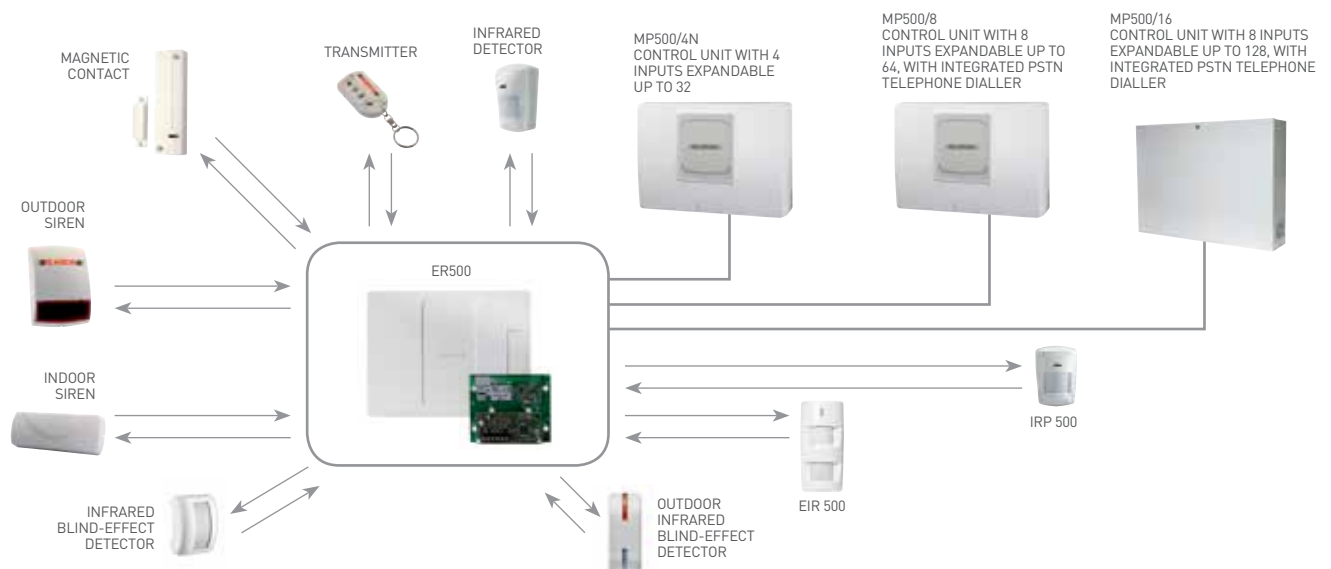
It can manage up to 16 sensors, 4 remote controls and 2 sirens via 868.35 MHz two-way wireless communication.

Through 4-wire bus, it can be connected directly to the control unit (MP500/4N, MP500/8, MP500/16) allowing a mixed management of wired and wireless devices.

- Extension operating voltage: from 9 V - to 15 V
- Rated absorbed current at 12V- : 35 mA
- Max. current peak absorption: 45 mA
- Overall max length of wireless extension central Bus serial line: 400 m
- Type of communication: serial Elcron protocol
- Communication technology: two-way wireless communication
- Wireless communication mode: FSK
- Frequency: 868,35 MHz
- Wireless range: →100 m in open air
- Rated operating temperature: -5°C ÷ +40°C
- Relative operating humidity: 95% a +40°C



ER500



### Wireless devices compatible with ER500 wireless extension

The following devices are the same as MR16 two-way radio interface devices.

### Remote control

RC500 item no. 80TX3900113

Remote control

- Communication technology: two-way wireless communication
- Wireless communication mode: FSK
- Frequency: 868.35 MHz
- Wireless range: up to 100 m in open air
- Power supply: 1 CR2032 type 3 V lithium battery
- Battery life: 2 years under normal operating conditions
- Dimensions (W x H x D): 38 x 65 x 15 mm



RC500

## MP500 SYSTEM

### Wireless devices compatible with ER500 wireless extension

#### Magnetic contacts

DC500 item no. 80MM0500113

##### Magnetic contact

- Communication technology: two-way wireless communication
- Wireless communication mode: FSK
- Frequency: 868.35 MHz
- Wireless range: up to 100 m in open air
- Power supply: 3.6 V 1/2 AA lithium battery
- Battery life: 2 years under normal operating conditions
- Auxiliary inputs: 1 for external contact or roller shutter
- Anti-opening and anti-removal protection
- Dimensions (W x H x D) of microcontact: 32 x 107 x 22 mm; magnet: 8 x 57 x 11 mm



DC500

DC500-BR item no. 80MM8800113

- Same features as previous model, but in brown colour

#### Passive infrared detector

IR500 item no. 80IR3C00113

##### Passive infrared detector

- Communication technology: two-way wireless communication
- Wireless communication mode: FSK
- Frequency: 868.35 MHz
- Wireless range: up to 100 m in open air
- Power supply: 3.6 V AA lithium battery
- Battery life: 2 years under normal operating conditions
- IR range: 12 m at 2 m height
- Anti-opening and anti-removal protection
- Includes articulated joint
- Dimensions (W x H x D): 64 x 90 x 42 mm



IR500

IRP500 item no. 80IR5C00113

##### Passive infrared detector with PET immunity

- Communication technology: two-way wireless communication
- Wireless communication mode: FSK
- Frequency: two-way 868.35 MHz
- Power supply: 3.6 V AA lithium battery (included)
- Battery life: 2 years under normal operating conditions
- Range: up to 100 m in open air
- IR range: 12 m at 2 m height
- Animal differentiation up to 27 kg
- Automatic temperature offsetting
- White light protection
- Ball joint included
- Dimensions (W x H x D): 64 x 90 x 42 mm



IRP500

ALPHABETIC INDEX	SALES NETWORK	AI		FI	
		INTRUSION DETECTION	FIRE DETECTION		
		HYBRID SYSTEMS			
		ACCESSORIES	COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS
		PERIMETER DETECTORS		VOLUMETRIC DETECTORS	
		WIRELESS SYSTEMS		CONVENTIONAL SYSTEMS	
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## MP500 SYSTEM

### Wireless devices compatible with ER500 wireless extension

#### Passive infrared detector

EIR500 item no. 80IR4C00113

Outdoor double-infrared detector

- Communication technology: two-way wireless communication
- Wireless communication mode: FSK
- Frequency: two-way 868.35 MHz
- Range: up to 100 m in open air
- Power supply: 2 AA lithium battery (included)
- Battery life: 2 years under normal operating conditions
- IR range: 12 m at 2,2 m height
- Rated operating temperature: -20° to 50°C
- Relative operating humidity: up to 95%
- Protection degree: IP65
- Double infrared detection with AND logic
- Programmable animal differentiation
- Automatic temperature offsetting
- White light protection
- Wall-mount / corner-mount
- Ball joint included
- Dimensions (H x W x D): 150 x 70 x 55 mm



EIR500

IRT500 item no. 80IR1E00113 **NEW**

Indoor blind-effect infrared detector

- Power supply: 1 CR123A 3V battery
- Battery life: 2 years under normal operating conditions
- Two-way wireless frequency: 868.35MHz
- IR range: max 8 m with 110° angle
- Rated operating temperature: -10°C ÷ +45°C
- Dimensions (H x W x D): 76 mm x 56 mm x 43 mm
- Weight: 300g



IRT500

#### Double-technology detector

DT500 item no. 80IM4000113 **NEW**

Double-technology outdoor detector, BLIND protection

- Power supply: 1 3V CR2 lithium battery
- Battery life: 2 years under normal operating conditions
- Two-way wireless frequency: 868.35 MHz
- Microwave frequency: 24 GHz
- Range: max 8m
- Rated operating temperature: -10°C to +45°C
- Certified protection class: IP54
- Dimensions (W x H x D): 62 x 110 x 43 mm
- Weight: 150g



DT500

STAFFA 90° item no. 80SP4D00113

Wall support for DT500

- Assembly from both sides (LH or RH)

SNODO item no. 80SP5D00113

Wall bracket for DT500

It allows corner and ceiling installation and the orientation adjustment option.



DT500 WALL SUPPORT

## MP500 SYSTEM

### Wireless devices compatible with ER500 wireless extension

#### Sirens

IS500 item no. 80HP2A00113

##### Indoor siren

- Communication technology: two-way wireless communication
- Wireless communication mode: FSK
- Frequency: 868.35 MHz
- Wireless range: up to 100 m in open air
- Power supply: 4 x 1.5 V type D alkaline batteries
- Battery life: 2 years under normal operating conditions
- Sound power: 104 dB at 1 m
- Anti-opening and anti-removal protection
- Dimensions (W x H x D): 113 x 228 x 54 mm



IS500

HP500 item no. 80HP3A00113

##### Outdoor siren with strobe light

- Communication technology: two-way wireless communication
- Wireless communication mode: FSK
- Frequency: 868.35 MHz
- Wireless range: up to 100 m in open air
- Power supply: 4 x 1.5 V type D alkaline batteries
- Battery life: 2 years under normal operating conditions
- Sound power: 104 dB at 1 m
- Anti-opening and anti-removal protection
- Dimensions (W x H x D): 220 x 257 x 69 mm



HP500

#### Wireless extensions

ER600 item no. 80WL2410111

##### Wireless extension on bus for MP500 systems

Two-way communication protocol in ultrafast FSK narrowband, allows reaching a range of 2km (free way) and to increase the average operating time of peripheral devices.

- Extension operating voltage: 9 Vcc ÷ 15 Vcc
- Rated absorbed current at 12 Vcc: 35 mA
- Max. current peak absorption: 45 mA
- Overall max length of wireless extension central Bus serial line - wireless extension: 400 m
- Type of communication: serial Elkron protocol
- Communication technology: two-way wireless communication
- Wireless communication mode: FSK
- Frequency: 868.6375 MHz
- Number of wireless channel: 1
- Wireless range: 2 Km (in open space)
- Rated operating temperature: -5°C ÷ +40°C
- Relative operating humidity: 95 % at +40°C
- Housing tampering protection: Anti-tamper



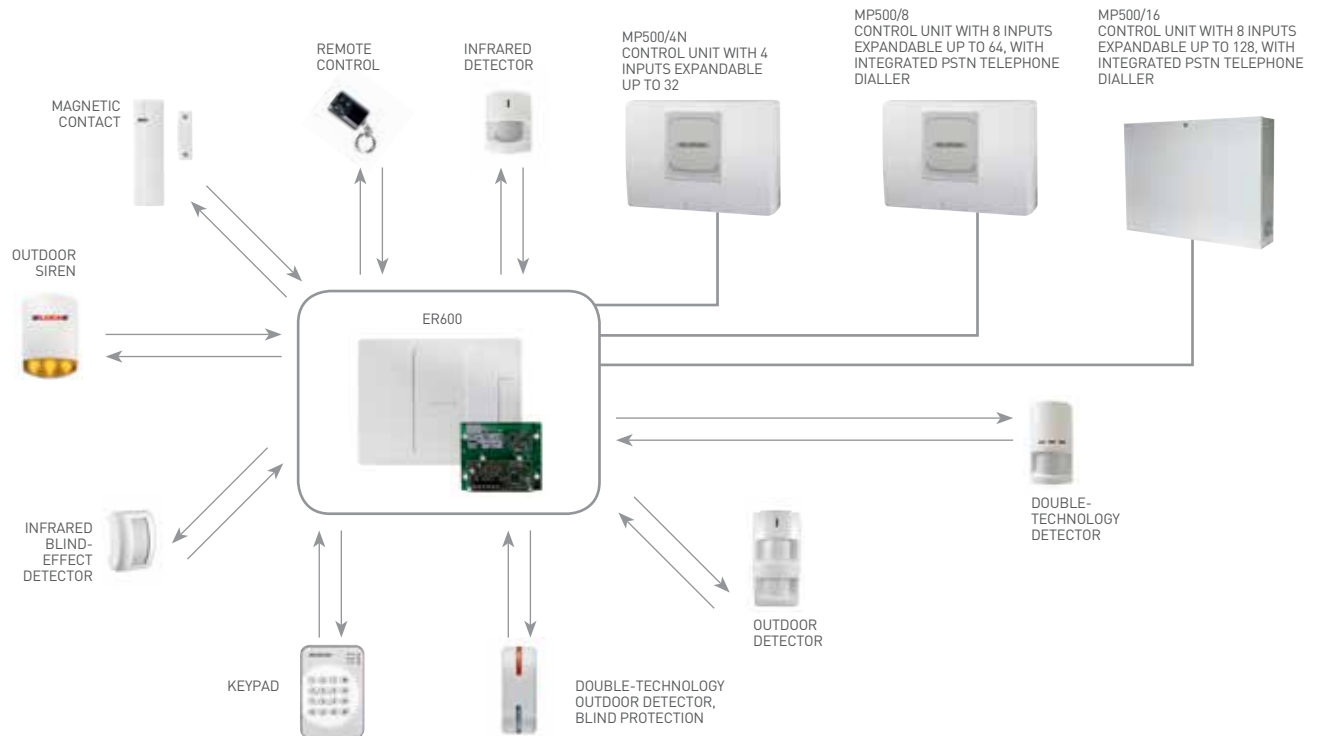
ER600

ALPHABETIC INDEX	SALES NETWORK	HYBRID SYSTEMS				FIRE DETECTION		FI		AI	
		WIRELESS SYSTEMS		VOLUMETRIC DETECTORS		PERIMETER DETECTORS		OUTDOOR PROTECTIONS		SIRENS	
		UNIVERSAL BASES FOR DUCTED DETECTION		DIGITAL SYSTEMS		EXTINGUISHING SYSTEM		WIRELESS STAND-ALONE SYSTEM		GAS DETECTION SPECIAL DETECTORS	
		CONVENTIONAL SYSTEMS									



## MP500 SYSTEM

### Wireless extensions



### Wireless devices compatible with ER600 wireless extension

The following items are the same devices available in EGON system.

#### Remote controls

RC600 item no. 80TX4400113

##### Remote control

- Power supply: 1 CR2032 3V lithium battery
- Battery life: 3 years under normal operating conditions
- 4 programmable buttons
- Two-way wireless frequency: 868.6375 MHz
- Rated operating temperature: -10°C to +45°C
- Dimensions (H x W x D) 50 X 33 X 14.5 mm
- Weight: 60g
- Performance level: EN50131 Degree 2 Class 2



RC600

KP600 item no. 80KP5500113

##### LED keypad

- Power supply: 1 EL 123AP lithium battery
- Battery life: 5 years under normal operating conditions
- Two-way wireless frequency: 868.6375 MHz
- Rated operating temperature: da -10°C a +45°C
- Dimensions (W x H x D): 80 x 116 x 20,5 mm
- Weight: 100g
- Performance level: EN50131 Degree 2 Class 2



KP600



## MP500 SYSTEM

### Wireless devices compatible with ER600 wireless extension

#### Magnetic contacts

DC600 item no. 80MM1E00113

White micro contact

- Power supply: 1 3V CR2 lithium battery
- Battery life: 2 years under normal operating conditions
- Two-way wireless frequency: 868.6375 MHz
- Rated operating temperature: from -10°C to +45°C
- Dimensions (H x W x D): 85 mm x 25 mm x 20 mm
- Weight: 100g
- Performance level: EN50131 Degree 2 Class 2



DC600

DC600/BR item no. 80MM1F00113

Brown micro contact

DC6002I item no. 80MM1G00113 **NEW**

Micro contact

- Power supply: 1 3V CR2 lithium battery
- Battery life: 5 years under normal operating conditions
- No.2 programmable auxiliary inputs
- Two-way wireless frequency: 868.6375 MHz
- Rated operating temperature: from -10°C to +45°C
- Dimensions (H x W x D): 107 mm x 32 mm x 22 mm
- Weight: 100g
- Performance level: EN50131 Degree 2 Class 2



DC6002I

DC6002I/BR item no. 80MM1H00113 **NEW**

Brown micro contact

#### Infrared detector

IR600 item no. 80IR2E00113

Indoor infrared detector

- Power supply: 1 CR123A 3V battery
- Battery life: 5 years under normal operating conditions
- Two-way wireless frequency: 868.6375 MHz
- IR range: max 12 m with 110° angle
- Rated operating temperature: -10°C ÷ +45°C
- Dimensions (W x H x D): 53.2 x 67x 89.2mm
- Weight: 300g
- Performance level: EN50131 Degree 2 Class 2



IR600

IRT600 item no. 80IR1F00113

Infrared blind-effect detector

- Power supply: 1 CR123A 3V battery
- Battery life: 3 years under normal operating conditions
- Two-way wireless frequency: 868.6375 MHz
- IR range: max 8 m with 110° angle
- Rated operating temperature: -10°C ÷ +45°C
- Dimensions (W x H x D): 76 x 56 x 43 mm
- Weight: 300g



IRT600

EIR600 item no. 80IR2F00113

Infrared outdoor detector with Pet Immunity function

- Power supply: 2 AA 3,6 V lithium battery
- Battery life: 3 years under normal operating conditions
- Two-way wireless frequency: 868.6375 MHz
- Rated operating temperature: from -10°C to +45°C
- Dimensions (W x H x D): 68 x 148 x 50 mm
- Protection degree: IP66
- Weight: 400g



EIR600



## MP500 SYSTEM

Wireless devices compatible with ER600 wireless extension

### Sirens

HP600 item no. 80HP8A00113

Outdoor siren with strobe light

- Power supply: 4 1.5V D alkaline battery
- Battery life: 5 years under normal operating conditions
- Sound power: 110dB @ 1 m
- Two-way wireless frequency: 868.6375 MHz
- Rated operating temperature: -10°C to +45°C
- Protection degree: IP56
- Dimensions (W x H x D): 83.5 x 205 x 316.8 mm
- Weight: 1.87 kg



HP600

### Double-technology detector

IM600 item no. 80IM3900113

Double-technology indoor detector

- Power supply: 1 CR123A 3V lithium battery
- Battery life: 4 years under normal operating conditions
- Two-way wireless frequency: 868.6375 MHz
- Microwave frequency: 10.525 GHz
- Range: max 12 m with 110° angle
- Rated operating temperature: from -10°C to +45°C
- Dimensions (W x H x D): 63.3 x 112.5 x 62 mm
- Weight: 100g



IM600

DT600 item no. 80IM4100113

Double-technology outdoor detector, BLIND protection

- Power supply: 1 3V CR2 lithium battery
- Battery life: 3 years under normal operating conditions
- Two-way wireless frequency: 868.6375 MHz
- Microwave frequency: 24 GHz
- Range: max 8 m
- Rated operating temperature: -10°C to +45°C
- Declared protection degree: IP54
- Dimensions (W x H x D): 62 x 110 x 43 mm
- Weight: 150g



DT600

STAFFA 90° item no. 80SP4D00113

Wall support for DT600

- Assembly from both sides (LH or RH)

SNODO item no. 80SP5D00113

Wall bracket for DT600

It allows corner and ceiling installation and the orientation adjustment option.



DT600 WALL SUPPORT

## MR16 TWO-WAY WIRELESS INTERFACE

The MR16 wireless module allows to add wireless devices to a wired system, even if the system is not designed to manage wireless devices. It can be connected to the inputs and outputs of any wired control unit and manage several wireless devices to expand the existing system. Wireless communication with all devices is of the two-way type, with anti-jamming protection and controlled by the supervision function. The MR16 module can be programmed and customised to suit individual needs, while the status of each sensor is displayed with several LEDs.

The MR16 wireless module is connected to and powered by the wired control unit, while wireless devices are powered by lithium batteries.

The MR16 wireless module can manage up to:

- 16 devices, including: opening detectors, volumetric sensors
- 2 sirens (for indoor and/or outdoor use)
- 8 remote controls.

### Wireless module interface

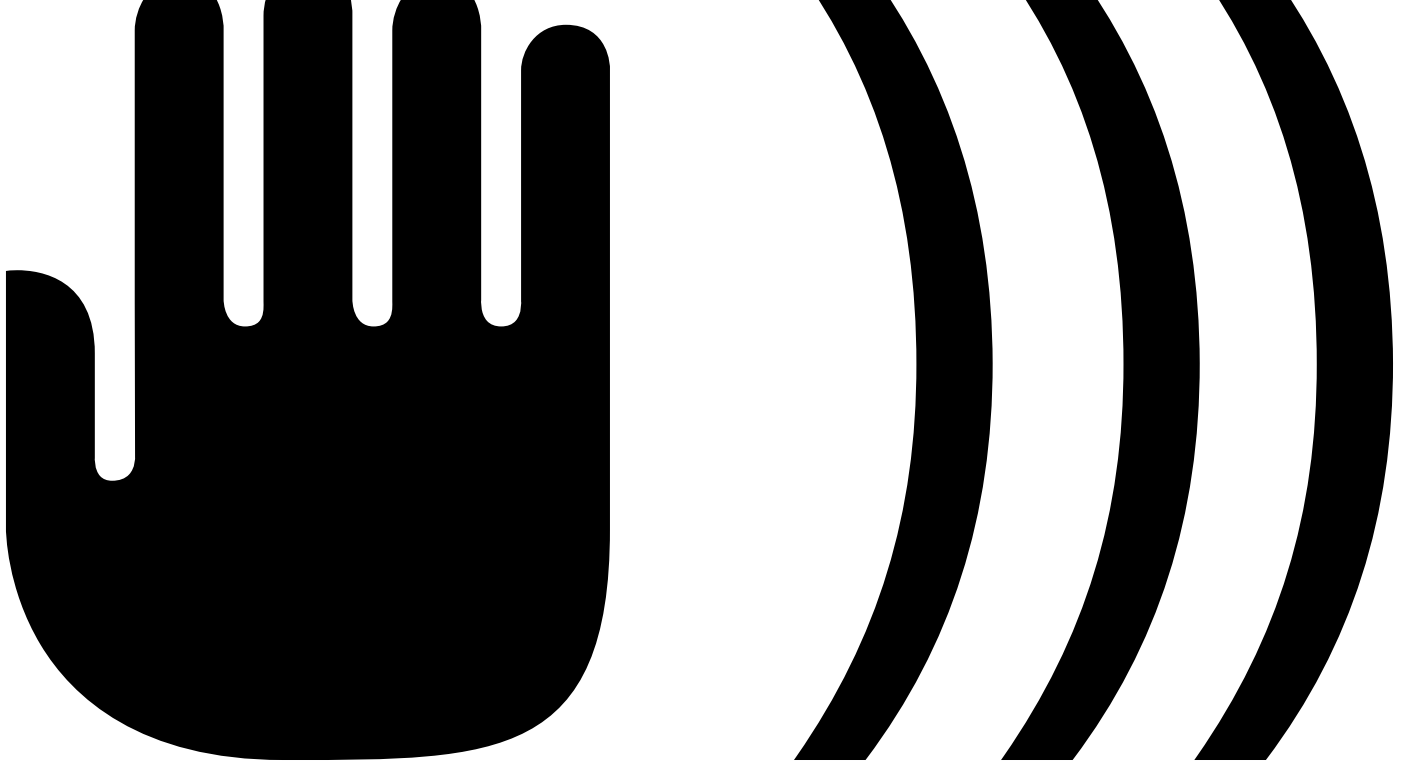
MR16 item no.80IT1900111

- Communication technology: two-way wireless communication
- Wireless communication mode: FSK
- Frequency: 868.35 MHz
- Wireless range: up to 100 m in open air
- Rated supply voltage: 12 Vdc
- Max. current absorption (with relays excited and LEDs on): 100 mA
- Outputs:
  - 8 solid-state relays for device status
  - 3 solid-state relays for tamper and low battery
  - 2 solid-state relays for activated/deactivated status
- Inputs:
  - 1 wireless siren control
  - 1 activation/deactivation control
- Visual warnings:
  - 16 device status
  - 5 system status
- 1 buzzer
- Selection pushbutton
- Programming: DIP switch
- Anti-opening protection: anti-tamper
- Dimensions (W x H x D): 180 x 137 x 40 mm
- Compatible with the same peripheral devices of ER500 bus expansion



MR16

ALPHABETIC INDEX	SALES NETWORK	HYBRID SYSTEMS					CONVENTIONAL SYSTEMS		
		AI	FI	INTRUSION DETECTION	FIRE DETECTION	WIRELESS SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION		



→ WIRELESS  
ALARM  
SYSTEMS



→28 CR200 GPRS

AI INTRUSION DETECTION		FI FIRE DETECTION	
HYBRID SYSTEMS		CONVENTIONAL SYSTEMS	
WIRELESS SYSTEMS		UNIVERSAL BASES FOR DUCTED DETECTION	
VOLUMETRIC DETECTORS		DIGITAL SYSTEMS	
PERIMETER DETECTORS		EXTINGUISHING SYSTEM	
OUTDOOR PROTECTIONS		WIRELESS STAND-ALONE SYSTEM	
SIRENS		GAS DETECTION SPECIAL DETECTORS	
ACCESSORIES		VISUAL-ACOUSTIC INDICATORS	
COMMUNICATORS			
SALES NETWORK			
ALPHABETIC INDEX			



### CR200 GPRS WIRELESS SYSTEM

CR200 is a smart GPRS modern, effective and versatile 30-zone alarm system, with mobile app. This highly affordable Home Security System with Mobile App feature is packed with simple Plug & Play functionality, designed for easy installation and easy self learning.

The user-friendly First Installation Menu played on the LCD Display of CR200 is a great tool for entry-level users to quickly set up this alarm system. Its simple and clear instructions guide you step by step through the installation procedure.

- Radio range for all the system devices is 300 m in open space
- Radio frequency for all the system devices is 868.35 MHz

#### Control the house anytime, anywhere using mobile devices

While connecting with security personnel to protect your house, CR200 gives you great autonomy and convenience to control your home anytime via the My CR200 APP on a smartphone. You can remotely “arm,” “home arm” or “disarm” your house from a smartphone.



## CR200 GPRS WIRELESS SYSTEM

### 30-Zone GPRS Voice, Digital Communicating & SMS

- Plug & play
- Self-taught, smart features
- Text zone naming
- Fault-proof supervision.

### Control unit

#### CR200 GPRS Control unit item no. 80WL4200113

- Alarm reporting over GPRS
- Voice and Digital reporting and/or SMS message reporting
- Communication protocol: Contact ID
- SMS programming via a smartphone
- Free App for the user to control the system from a smartphone
- 30 individually named and programmed zones to support 30 wireless sensors
- Each zone can be programmed into different zone types with specific device attributes
- First Installation Menu on the LCD display to provide step-by-step installation instructions
- Menu in multiple languages: Italian, French, English
- Easy-to-operate LCD display of 32 backlit characters
- Six reporting numbers
- 20 event logs
- Automatic check-in reports
- Indicator of GSM signal strength
- Tamper detection
- Fault and status indicators
- Compatible with Door Contact, PIR Motion Detector, Pet Immune PIR Motion Detector, Remote Keypad, Remote Controller, Smoke Detector, and Bell Box
- Compliant with CE certification requirements

#### Technical features:

- Radio communication method: FM
- Frequency: 868MHz
- Radio range: 200m
- Power supply: AC Adapter
- rechargeable Battery: 4.8V 600mAh NiMH
- Batteries' life: 10 hours (estimation)
- Low battery indication: Yellow LED on + LCD fault display
- Arm mode: Global / Partial
- Maximum number of inputs (zones): 30
- Maximum number of radio sirens: 30 (included in wireless zones)
- Maximum number of remote controls: 30
- Maximum number of keyboard: 30
- Maximum number of recordable events: 20
- Integrated alarm devices (buzzer): 95 dBA
- Protections: Anti-jamming, anti-removal, anti-opening
- Operating temperature: -10°C ÷ +45°C
- Case material: ABS707
- Dimensions (W x H x D): 209 x 136 x 34,2 mm

### Product kit

#### CR200 GSM+IR200+DC200+RC200 KIT item no. 80KT1T00113



CR200 GPRS

AI	FI			
	INTRUSION DETECTION	FIRE DETECTION		
ALPHABETIC INDEX	SALES NETWORK			
	ACCESSORIES	COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS
	WIRELESS SYSTEMS		VOLUMETRIC DETECTORS	PERIMETER DETECTORS
	HYBRID SYSTEMS			
	UNIVERSAL BASES FOR DUCTED DETECTION		DIGITAL SYSTEMS	EXTINGUISHING SYSTEM
	CONVENTIONAL SYSTEMS			
	GAS DETECTION SPECIAL DETECTORS		WIRELESS STAND-ALONE SYSTEM	
	VISUAL-ACOUSTIC INDICATORS			



## CR200 GPRS WIRELESS SYSTEM

### Keypad

#### KP200 item no. 80KP8200113

##### ABS backlit wireless keypad

KP200 is a wireless, high tech, and durable remote keypad that allows you to control your security system from wherever it is deployed. It communicates with a Control unit via radio, to "Arm", "Home (Partial) arm", & "Disarm" the system.

- 16-button backlit keypad for easier night use
- Low Battery detection
- Protection: anti-opening and anti-removal
- IP44 Water Proof
- Power: Lithium CR2450 battery x 1
- Battery life: → 2 years
- Radio frequency: 868.35 Mhz
- Range: over 300 meters in open space
- Operating temperature: -20° to 50°C
- Humidity: up to 95% non-condensing
- Dimensions (W x H x D): 103 x 72 x 18 mm



KP200

### Remote controls

#### RC200 item no. 80TX3800113

##### Five-button remote control

Remote control with 5 keys and two-colour LEDS, totally managed by a microprocessor. All the operations associated with the keys (up to two per key) and with the LEDS can be programmed from the unit control.

- 4 Buttons to Arm / Disarm / Partial Arm & active Panic alarm for the security system
- Water resistance with IP rating 41
- LED: 1, Transmission indicator
- Low Battery detection
- Power: Lithium CR2032 battery x 1
- Battery life: →2 years
- Radio frequency : 868.35 MHz FM
- Range: over 300 meters in open space
- Operating temperature: -20° to 50°C
- Humidity: up to 95% non-condensing
- Dimensions (W x H x D): 65 x 38 x 15 mm



RC200







## CR200 GPRS WIRELESS SYSTEM

### Detectors

#### IR200 item no. 80IR9B00113

The Passive Infrared Motion Detector is a microprocessor controlled PIR Detector. Its advanced Digitalized Adaptive Signal Processor algorithm enables the PIR Detector to maintain a stable sensitivity level regardless of changes in its environment or outside interference. Protection: anti-opening and anti-removal.

- Microprocessor Controlled with advanced Digitalized Adaptive Signal Processor algorithm
- Surface and Corner mounting removal tamper protection
- Randomized Supervision signals for trouble-free system integrity checking
- Low Battery detection
- Superior white light noise rejection
- Detection range: 12 meters at 90° angle
- Superior radio Interference rejection of up to 20V/m at frequencies of 100 KHz to 1 GHz
- Automatic Power Saving Mechanism
- Insect and dirt proof
- Compact & low profile
- Temperature compensated sensitivity control
- Power: Alkaline AA batteries x 2
- Battery life: → 2 years
- Radio frequency: 868.35 MHz
- Range: over 300 meters in open space
- Operating temperature: -20° to 50°C
- Humidity: up to 95% non-condensing
- Dimensions (W x H x D): 120 x 74 x 55 mm



IR200

#### DC200 item no. 80MM8000113

##### Door Contact

The Door Contact offers reliable monitoring of doors and windows for their "OPEN" & "CLOSE" status and to alert the Control Unit of any irregular activities. The door contact can be added to an existing wired sensor.

- Simple design for easy mounting on door frame
- Protection: anti-opening and anti-removal
- Low Battery detection
- Built-in Auxiliary Input Terminal for Enhanced Flexibility to add Wired Detectors
- Built-in Reed Switch and External Contact can be used simultaneously
- Powerful magnet that gives 30mm Space between the Door Contact and magnet
- Built-in Extension Terminal for enhanced flexibility to add wired detectors
- LED: Fault & Test Mode Indicator
- Power: Alkaline AAA batteries x 2
- Battery life: → 2 years
- Radio frequency: 868.35 MHz
- Range: over 300 meters in open space
- Operating temperature: -20° to 50°C
- Humidity: up to 95% non-condensing
- Dimensions (W x H x D): 135 x 33 x 22 mm



DC200

#### DC200BR item no. 80MM8100113

Same as DC200, but in brown

## CR200 GPRS WIRELESS SYSTEM

### Detectors

#### SD200 item no. 80SD8V00113

##### Smoke Detector

- Excellent stability with high sensitivity
- Detection method: Reflective photoelectric sensor
- Digital Signal Processing
- Randomized supervision signals for trouble-free system integrity checking
- Low Battery detection
- Diagnostic function: a Test button for self-test including optical sensor diagnosis
- Alarm silence function: 10 minutes per activation
- Built-in siren for audio alert
- Alarm Volume: 95 dB @ 1 meter
- Power: Alkaline AAA x 4
- Battery life: → 2 years
- Radio frequency: 868.35 MHz
- Range: over 300 meters in open space
- Operating temperature: -20° to 50°C
- Humidity: up to 95% non-condensing
- Dimensions: Ø105 X 42 mm



SD200

### Sounders

#### HP200F item no. 80HP9800113

##### External siren

Battery-operated, completely wire-free operation with a 3-year battery life guarantee. HP200F is innovated with a sounder and strobe light for outdoor use to attract attention.

You are free to choose one of the following two options for its application:

- a) Working as part of a wireless Home Security System. The Sounder receives signals sent from the Control Unit during alarm activation and responds by activating its siren & strobe light.
- b) Working as a local Security Alarm System. You can install up to 10 devices. Operation of the system can be controlled by the Remote Controller or the Remote Keypad. Up on receiving signals directly sent from a detector that is triggered, the Sounder responds by activating its siren & strobe light.

- Waterproof & UV Proof with IP43
- Low Battery detection
- Protection: anti-opening and anti-removal
- Jamming Detection to protect from unauthorized interference
- System Status Indicator with siren beeps and strobe light
- Automatic Siren Cut-Off at selectable durations of 3 / 5 / 10 minutes
- Strobe Light Control can be selectable between Auto Cut-off or Manual Cut-off
- Power: Alkaline D batteries x 4
- Battery life: > 2 years
- Siren output: 104dB @ 1 meter
- Radio frequency: 868.35 MHz FM
- Range: over 300 meters in open space
- Operating temperature: -20° to 50°C
- Humidity: up to 95% non-condensing
- Dimensions (W x H x D): 257 x 220 x 69 mm



HP200F

#### IS200 item no. 80HP9900113

##### Indoor siren

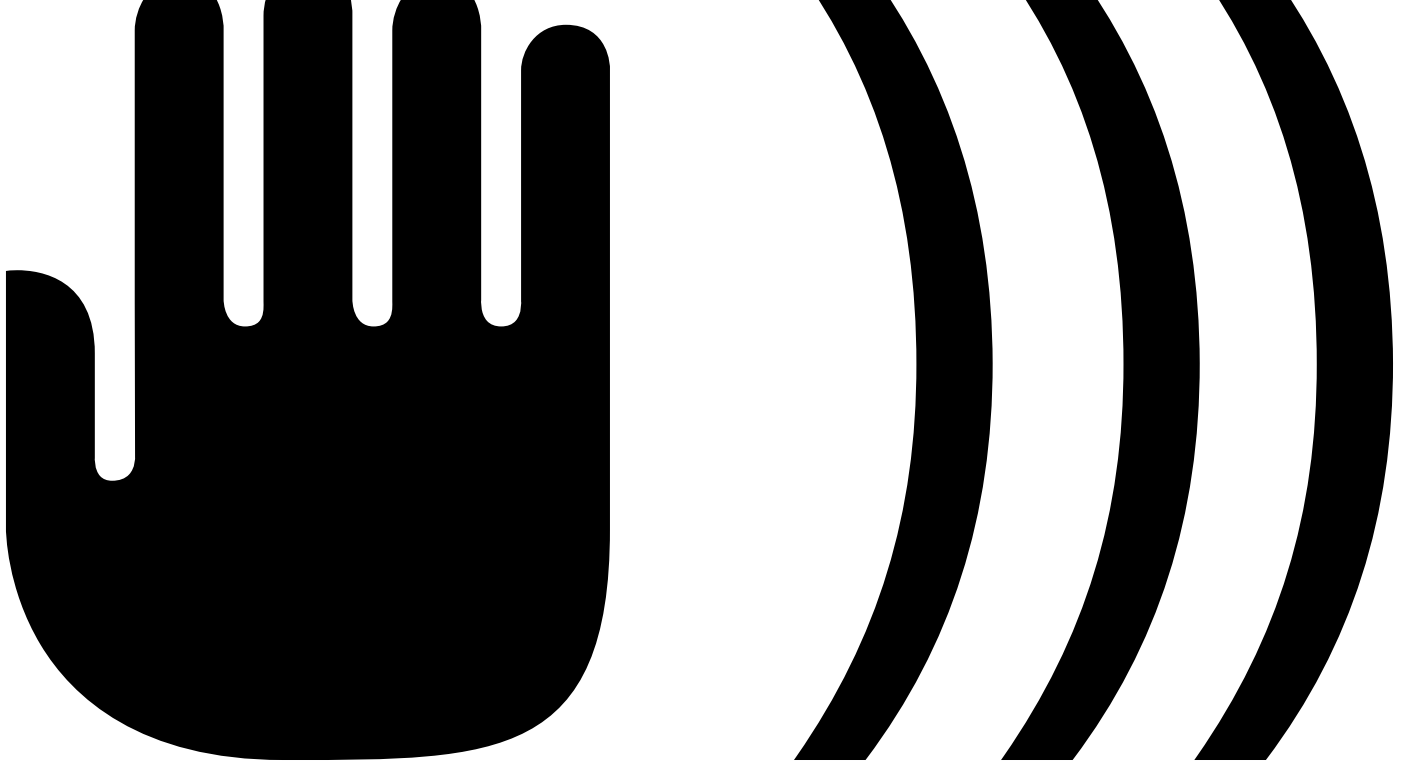
Battery-operated, completely wire-free operation with a 3-year battery life guarantee. IS200 is equipped with a sounder for indoor use to attract attention. Battery life expectancy: > 3 years in a typical domestic environment.

- Waterproof & UV Proof with IP rating 43, Low Battery detection, Tamper protection, System status indicator, auto cut-off 3/5/10 minutes, alkaline D batteries x 4, 104db 104dB @ 1 meter, Radio frequency 868.35 MHz, over 300 meters of range in open space, operating temperature from -20° to 50°, humidity: up to 95% non-condensing, dimensions: 228 x 113 x 54 mm



IS200

AI	FI	HYBRID SYSTEMS	WIRELESS SYSTEMS	VOLUMETRIC DETECTORS	PERIMETER DETECTORS	OUTDOOR PROTECTIONS	SIRENS	COMMUNICATORS	ACCESSORIES	SALES NETWORK	ALPHABETIC INDEX
INTRUSION DETECTION	FIRE DETECTION	CONVENTIONAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION	DIGITAL SYSTEMS	EXTINGUISHING SYSTEM	WIRELESS STAND-ALONE SYSTEM	GAS DETECTION SPECIAL DETECTORS	VISUAL-ACOUSTIC INDICATORS			





## → VOLUMETRIC DETECTORS



→36 INDOOR DETECTORS

→39 OUTDOOR DETECTORS

											
ALPHABETIC INDEX	SALES NETWORK	ACCESSORIES		COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS	PERIMETER DETECTORS	VOLUMETRIC DETECTORS		WIRELESS SYSTEMS	HYBRID SYSTEMS
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS	WIRELESS STAND-ALONE SYSTEM	EXTINGUISHING SYSTEM	DIGITAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION		CONVENTIONAL SYSTEMS	



## VOLUMETRIC DETECTORS

The new Elkron indoor volumetric detectors, certified in accordance with standards EN50131-2-4 Degree 2 Class, feature compact dimensions and an elegant design.

The range includes passive infrared detectors and dual technology detectors (infrared + microwave).

### Infrared detectors

IR15 item no. 80IR3D00113 **NEW**

Digital infrared passive volumetric detector (IRP)

- Rated power supply voltage: 12V +/- 3V
- Max absorption: 17 mA
- Two levels of sensitivity can be selected (H/L)
- Max. range 15 mt
- Opening angle 90°
- Fresnel lens: 18 beams on 4 layers with look down zone
- Wall or corner mounting
- Articulation for wall or ceiling mounting
- Dimensions (W x H x D): 60 x 60 x 45 mm
- Performance level EN50131 1-2-4 Degree 2 Class 2



IR15



IR15P item no. 80IR4D00113 **NEW**

Digital infrared passive volumetric detector (IRP) with Pet Immunity

- Max. adjustable range 12 m
- Two adjustable thresholds for Pet Immunity function: 12 kg or 20 kg
- Opening angle 90°
- Wall or corner mounting
- Rated power supply voltage: 12V +/- 3V
- Absorption at 12 V: max. 17 mA
- Opto relay: 100mA / 24V
- Tamper: 100 mA / 30V
- Weight: 65 g
- Articulation for wall or ceiling mounting (optional)
- Dimensions (W x H x D): 60 x 60 x 45 mm
- Performance level EN50131 1-2-4 Degree 2 Class 2



IR15P

PRODUCT	QUALITY CERTIFICATION MARKS	
IR15		EN50131 1-2-4 Degree 2 Class 2
IR15P		EN50131 1-2-4 Degree 2 Class 2

## VOLUMETRIC DETECTORS

### Double technology detectors

DT15 item no. 80IM3500113

Digital double technology detector

- Fq. MW 10,525GHz
- Max range 15 mt
- MW range: 90° horizontal - 36° vertical
- Wall or corner mounting
- Rated power supply voltage: 12V +/- 3V
- Absorption at 12 V: max. 22 mA
- Opto relay: 100mA / 24V
- Tamper: 100 mA / 30V
- Weight: 110 g
- Articulation for wall or ceiling mounting (optional)
- Dimensions (W x H x D): 107 x 61,5 x 43,5 mm
- Performance level EN50131 1-2-4 Degree 2 Class 2



DT15

DT15AM item no. 80IM3600113

Digital antimasking double technology detector

- Fq. MW 10,525GHz
- Max range 15 mt
- MW range: 90° horizontal - 36° vertical
- Wall or corner mounting
- Rated power supply voltage: 12V +/- 3V
- Absorption at 12 V: max. 22 mA
- Antimasking opto relay: 100mA / 24V
- Tamper: 100 mA / 30V
- Weight: 110 g
- Articulation for wall or ceiling mounting (optional)
- Dimensions (W x H x D): 107 x 61,5 x 43,5 mm
- Performance level EN50131 1-2-4 Degree 2 Class 2



DT15AM

### Articulations for detectors

SNODO item no. 80SP1E00113

Articulation for IR/DT15

- Adjustable articulation
- Wall mounting



ARTICULATION FOR IR/DT15

SP15 item no. 80SP1F00113

Ball joint for shielded cable

- Adjustable articulation
- Wire internal passage
- Wall mounting



SP15

PRODUCT	QUALITY CERTIFICATION MARKS	
DT15		EN50131 1-2-4 Degree 2 Class 2
DT15AM		EN50131 1-2-4 Degree 2 Class 2



## VOLUMETRIC DETECTORS

### Dual-technology detector with three-function EXTRAVISION® lens

IM915AM item no. 80IM2600211

Dual-technology detector with three-function Extravision® hemispherical Fresnel lens

- Range: 15 m rated (volumetric lens), 15 m rated (curtain lens), 25 m rated (long range lens)
- IR coverage: 90° (volumetric lens)
- MW coverage: 90° horizontal - 36° vertical
- Sensitive zones: 23 on 5 levels + 2 creep-zones (volumetric lens)
- Creep-zone detection
- QUAD PIR sensor, double antimasking function
- Adjustable PIR range
- AND/OR operation
- Autoequalizer Function
- Pulse count
- Automatic temperature compensation
- Double digital filter
- Supply voltage: 9 ÷ 15 Vdc
- Absorption at rest: 25 mA
- Operating temperature: -10°C/+55°C
- Performance level: 3rd
- Dimensions (H x W x D): 138 x 74 x 53 mm
- Weight: 124 g



IM 915AM

### Dual-Technology detector with Fresnel® lens

IM29CPU item no. 80IM1800111

Dual-technology detector with Fresnel lens

- Global range: 13/25 m programmable
- Microwave coverage: 70° horizontal, 70° vertical
- Sensitive zones: 20 on 3 levels
- Main frequency: in accordance with national frequencies
- Autoequalizer function: variable MW thresholds in relation to environmental noise
- Microwave section sensitivity: adjustable in 4 steps
- Infrared section sensitivity: adjustable in 2 steps
- Alarm memory: standard
- Operation: AND
- Warning LEDs: separate for each section
- Supply voltage: 10.5 ÷ 14 Vdc
- Absorption at rest: 32 mA
- Dimensions without support: 100 x 95 x 60 mm



IM29CPU



## VOLUMETRIC DETECTORS

### Outdoor volumetric detector

DT16 item no. 80IM3700113

Double-technology outdoor detector, BLIND protection, anti-masking function

Suitable for perimeter protection of your house. We advice to install it with the proper accessories (bracket or articulation)

- Power supply: 12 VDC
- Range: 8 mt
- MW & PIR double technology
- Absorption: 20 mA
- Micro-wave: 24 Ghz
- Infrared lens anti-masking
- Crossing function
- AND operation
- Temperature balancing
- Response time: 3 sec.
- Operating temperature: -10 ° + 55°C
- Tampering: 100 mA at 30V
- Protection class: IP61
- Dimensions (W x H x D) mm: 44 x 110 x 46
- EN50131 class 2 and 4 certification

90° WALL SUPPORT item no. 80SP4D00113

Wall support for DT16

- Assembly from both sides (LH or RH)

WALL BRACKET item no. 80SP5D00113

Wall bracket for DT16

It allows corner and ceiling installation and the orientation adjustment option.

DT17 item no. 80IM3800113

Double-technology outdoor detector, Pet immunity and Anti-masking

The detector is suitable for outdoor installation and is equipped with Anti-masking and PET immunity function. DT17 has a detection logic based on the advanced analysis of the activation sequence of the micro-wave movement sensor and of the two independent infrared sensors that compose it.

- Detection range: the micro-wave range is adjustable from 0 to 15 metres, while the PIR sensor range is fixed to 10 metres.
- Volumetric coverage range: 90° (78 areas - 5 detection surfaces)
- Pet immunity: <10kg
- Triple detection logic: 1 MW + 2 independent PIR
- Anti-masking technology (anti-spray)
- Obstacle detection technology (blocking)
- Alarm outputs: two outputs, a NC one and a separated NO one
- Integrated line end resistors
- Tampering Alarm
- Fault Masking
- Micro-wave module frequency: 9,9 GHz
- Integrated walk test buzzer
- Temperature digital compensation
- Oscillation-preventing filter
- Protection against sunlight
- High-intensity UV filter
- Polycarbonate housing
- Sealed lenses
- Electronic board protection
- Power supply and consumption 24mA at 13.8 VDC

WALL BRACKET item no. 80SP6D00113

Wall bracket for DT17

This is an optional bracket, adjustable by 45° to the right and to the left to optimize the volumetric coverage of the protected area. The bracket includes 4 stainless steel screws, a removal-resistant tamper and a drilling jig.



DT16



WALL SUPPORT FOR DT16

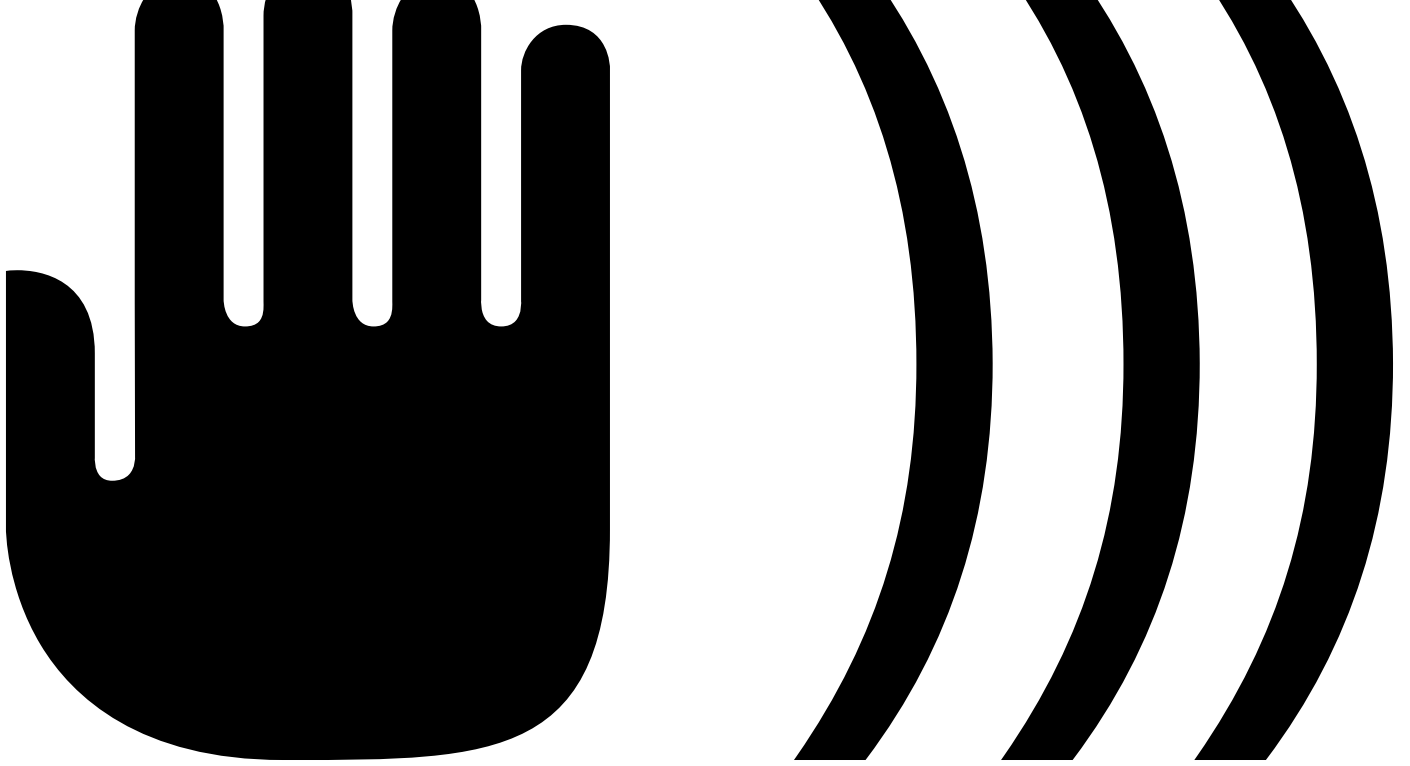


DT17



SNOD0 DT17

PRODUCT	QUALITY CERTIFICATION MARKS	
DT16		EN50131-2-4 Degree 2



## → PERIMETER DETECTORS



- 42 STRUCTURAL PROTECTIONS
- 44 ROLLER SHUTTER CONTACTS
- 45 MAGNETIC CONTACTS
- 47 INERTIAL DETECTOR

ALPHABETIC INDEX	SALES NETWORK	P PERIMETER DETECTORS						FIRE DETECTION	
		ACCESSORIES	COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS	EXTINGUISHING SYSTEM	DIGITAL SYSTEMS	WIRELESS SYSTEMS	HYBRID SYSTEMS
		VISUAL-ACOUSTIC INDICATORS	GAS DETECTION SPECIAL DETECTORS		WIRELESS STAND-ALONE SYSTEM		UNIVERSAL BASES FOR DUCTED DETECTION		CONVENTIONAL SYSTEMS



## STRUCTURAL PROTECTIONS

### Shock sensors

GD03 item no. 80GD0300113

Glass break detector

4 wires, including power cable

Supply voltage: 9 ÷ 16 Vdc

→ LED indication and Mosfet alarm relay

→ Dimensions (H x W x D): 37x19x12 mm



GD03

GD05PL item no. 80GD0400113

Glass break detector

2 wires, power cable not included

Electronic switch (without contacts), can be adapted for wireless alarm systems

Dimensions (H x W x D): 37x19x12 mm



GD05PL

ESD30 item no. 80VV0500113

Electronic shock sensor for doors and windows with automatic sensitivity control and indication of vibration level

Smart pulse count: false alarm identification

→ Dimensions (H x W x D): 21x25x92 mm



ESD30

VSD3 item no. 80VV0600113

Mechanical shock sensor for surface installation, to be used in combination with ESD30 electronic sensor

It is possible to connect up to 3 sensors to extend the detection range of ESD30 electronic sensor



VSD3

## STRUCTURAL PROTECTIONS

### MS04 Vault Detector

MS04 item no. 80MS0800211

Vault detector for alarm notification against break-in attempts on reinforced concrete walls, safes, armoured cabinets, 24-hour deposits, etcetera

Microprocessor-based technology with fully digital sensor management

- Total immunity from external electromagnetic interference thanks to double galvanised isolation between connections area and signal detection and analysis unit
- Cyclic self-test on two detection channels, with constant transducer and amplification section integrity test
- Threshold heat detector for detecting attempt to attack the microphone with devices that cause a sudden change of the detector's normal operating temperature
- Detection channels and methods:
  - Perforation channel: 16 levels of sensitivity, 4 - integration values (delay)
  - Explosion channel: 4 levels of sensitivity
- Visualisation and memorisation of different types of alarm
- Test point for calibration and sensitivity instrumental check
- "REMOTE" control for lowering sensitivity levels (ATM applications)
- Double cable passage: to the control unit, with grommet, and to optional auxiliary sensor, external to microphone
- Preset for housing an internal noise generator (optional) for operational test
- Preset for external noise generator management (optional) for operational tests on large surfaces
- Rated supply voltage: 12 Vdc
- Min and max operating voltage: 9 ÷ 15 Vdc
- Absorption: 25 mA typ at 12 Vdc 30 mA max
- Certified operating temperature: +5°C ÷ +40 °C
- Operating temperature declared by manufacturer: -10°C ÷ +70°C
- Tamper and heat attack activation temperature: -5°C ÷ +60°C
- Automatic self-test cycle every 5 minutes
- Guaranteed performance level:
  - 3rd (with MS04IT + MS04ET)
  - 2nd (with internal noise generator MS04IT)
  - 1st (standard microphone)
- Certified protection degree: IP30 (IEC 70-1)
- Protection degree declared by manufacturer: IP54
- Alarm time (switching) of optically isolated output: approx. 4s
- Lapse rate detection: 4°C/min. approx
- Detection range: from 10 to 100 Khz approx
- Coverage: 48 sq. m
- Alarm output: solid-state relay
- Tamper output for opening, removal, heat attacks
- Dimensions (W x H x D): 136 x 48 x 89 mm
- Weight: 550 g

MS04PK item no. 80MS1200211







Same as MS04 but with cover patch device for protection of safes. Possibility to identify one out of three positions: unavailable lock, available lock and intermediate position.



MS04



MS04PK

PRODUCT	QUALITY CERTIFICATION MARKS
MS04	  
MS04PK	  

AI	FI
INTRUSION DETECTION	FIRE DETECTION
HYBRID SYSTEMS	CONVENTIONAL SYSTEMS
WIRELESS SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION
VOLUMETRIC DETECTORS	DIGITAL SYSTEMS
P PERIMETER DETECTORS	EXTINGUISHING SYSTEM
OUTDOOR PROTECTIONS	WIRELESS STAND-ALONE SYSTEM
SIRENS	GAS DETECTION SPECIAL DETECTORS
COMMUNICATORS	VISUAL-ACOUSTIC INDICATORS
ACCESSORIES	
SALES NETWORK	
ALPHABETIC INDEX	



## STRUCTURAL PROTECTIONS

### MS04 Vault Detector

MS04IT item no. 80MS1010211

Internal noise generator for MS04

It allows to test the detector in operation (the noise generator transmits through the means to be protected).



MS04IT

MS04ET item no. 80MS1110211

External noise generator for MS04 for operational testing of large-size installations

### Accessories for MS04 vault detector

SPA04 item no. 80SP6900111

Adaptor and fastening plate for structures and safes

KT TMP item no. 80KT4700111

Fastening kit for composite structures



MS04ET

## ROLLER SHUTTER CONTACTS

### Roller Shutter contacts

MF01 item no. 80MM4500113

Roller shutter contact

→ With adjustable pulley

→ Dimensions (H x W x D): 90x102x16 mm



MF01

MF02 item no. 80MM4600113

Roller shutter contact

→ With stainless steel slide rolls

→ Dimensions (H x W x D): 90x102x16 mm

IV4Z item no. 80MP9610111

Interface board for fast signals

→ With 4 programmable alarm inputs and 4 electrical outputs, one for each input.

The board transforms fast signals from devices such as vibrators and shutter sensors, into manageable signals for the control units



MF02

PRODUCT	QUALITY CERTIFICATION MARKS
MS04IT	
MS04ET	

## MAGNETIC CONTACTS

### Magnetic contact for pivoting doors

MMB01 item no. 80MM4400213  
 Die-cast contact for pivoting doors  
 → With anti-tamper; NC contact  
 → Max operating distance: 35 mm



MMB01

### Magnetic surface contacts

MMH01 item no. 80MM4700213  
 High security surface contact with triple magnetic balancing  
 → IP65 Aluminium casing; screw terminals  
 → Suitable for gates and doors  
 → Max operating distance: 12 mm



MMH01

MMH02 item no. 80MM4800213  
 Surface contact with double magnetic balancing  
 → IP65 Aluminium casing; screw terminals  
 → Suitable for gates and doors  
 → Max operating distance: 18 mm



MMH02

MMH03 item no. 80MM4900113  
 High-power surface contact  
 → Casing in aluminium IP65  
 → Screw terminals  
 → Suitable for gates and doors  
 → Max operating distance: 50 mm



MMH03

MMS01 item no. 80MM5300113  
 White plastic surface contact  
 → Screw terminals  
 → Max operating distance: 15 mm



MMS01 e MMS01BR

MMS01BR item no. 80MM5400113  
 Same as MMS01 in BROWN plastic

MMS02 item no. 80MM5500213  
 Surface power contact in die-cast aluminium  
 → Suitable for armoured doors; screw terminals  
 → Max operating distance: 25 mm



MMS02

MMS50 item no. 80MM5700113  
 White plastic surface contact  
 → Cable terminals  
 → With anti-tamper  
 → Min operating distance: 10 mm



MMS50

MMS50BR item no. 80MM5800113  
 Same as MMS50 in brown plastic

PRODUCT	QUALITY CERTIFICATION MARKS
MMB01	
MMH01	
MMH02	
MMH03	



## MAGNETIC CONTACTS

### Magnetic surface contact

MMS03 item no. 80MM5600213

Surface power contact in die-cast aluminium

- Suitable for armoured doors. Screw terminals
- Max operating distance: 25 mm



MMS03

MMS60 item no. 80MM6100113

Surface contact in die-cast aluminium

- With anti-tamper
- Min operating distance: 10 mm



MMS60 - MMS60MR

MMS60MR item no. 80MM6200113

Same as MMS60 in brown aluminium

### Flush-mounted magnetic contacts

MMI01 item no. 80MM5000213

White ABS flush-mounted contact

- Diameter: 9 mm
- With anti-tamper
- Max operating distance: 10 mm



MMI01

MMI02 item no. 80MM5100213

Brass flush-mounted contact

- Diameter: 8 mm
- With anti-tamper
- Suitable for installation on aluminium and wood window and door frames
- Max operating distance: 10 mm



MMI02

MMI03 item no. 80MM5200113

Brass flush-mounted contact

- Spacer diameter: 10 mm and 16 mm
- With anti-tamper
- Suitable for installations on iron and armoured doors
- Max operating distance: 20 mm



MMI03

MMI17 cod 80MM6000113

White ABS flush-mounted contact

- Diameter: 9 mm
- With anti-tamper
- Max operating distance: 20 mm

PRODUCT	QUALITY CERTIFICATION MARKS
MMS03	
MMI01	
MMI02	



# INERTIAL DETECTOR

## Inertial detector

MMZ01 item no. 80MM5900113

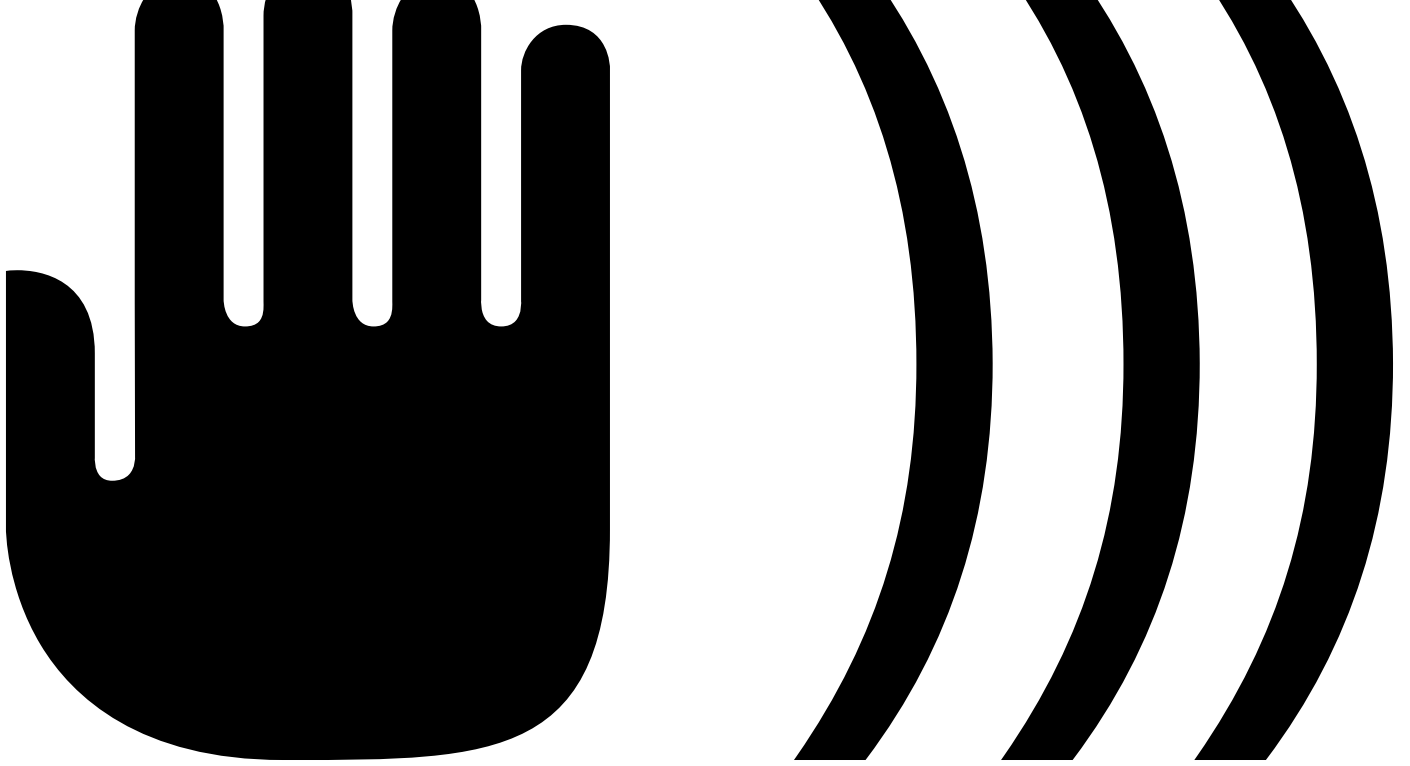
Inertial detector with golden contacts

- Installation: screw-on or with bi-adhesive tape
- Dimensions (H x W x D): 34 x 34 x 21 mm



MMZ01

ALPHABETIC INDEX	SALES NETWORK	ACCESSORIES	COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS	P ERIMETER DETECTORS			VOLUMETRIC DETECTORS	WIRELESS SYSTEMS	HYBRID SYSTEMS
		VISUAL-ACOUSTIC INDICATORS	GAS DETECTION SPECIAL DETECTORS	WIRELESS STAND-ALONE SYSTEM	EXTINGUISHING SYSTEM	DIGITAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION	CONVENTIONAL SYSTEMS			



## → OUTDOOR PROTECTIONS



- 50 INFRARED BARRIERS
- 56 MICROWAVE BARRIERS
- 59 DUAL TECHNOLOGY BARRIERS

ALPHABETIC INDEX	SALES NETWORK	OUTDOOR PROTECTIONS										AI INFLUENCE DETECTION		FIRE DETECTION	
		ACCESSORIES		COMMUNICATORS		SIRENS		PERIMETER DETECTORS		VOLUMETRIC DETECTORS		WIRELESS SYSTEMS		HYBRID SYSTEMS	
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS		WIRELESS STAND-ALONE SYSTEM		EXTINGUISHING SYSTEM		DIGITAL SYSTEMS		UNIVERSAL BASES FOR DUCTED DETECTION		CONVENTIONAL SYSTEMS	



## INFRARED BARRIERS

### Outdoor protection

Elkron offers highly technological intrusion detection solutions suitable for particular areas, such as isolated cottages, factory outdoor premises, military zones, airports and other high-risk zones.

Such technologies include active infrared and microwave.

Infrared indoor and outdoor barriers use infrared beams to create a barrier that surrounds the zone to be protected. The alarm is activated when interruption of this invisible net occurs. The range, different for each model, can reach up to 600 meters for indoor and up to 250 meters for outdoor barriers. Some models feature a system that eliminates false alarm caused by atmospheric agents, such as rain, snow or fog.

Microwave barriers create an invisible protection band with a 3-4 meter diameter, generated between transmitter and receiver, that form a barrier around the protected zone. This advanced technology has a range of up to 180 meters for each section and it is ideal for high risk situations.

### EL20 Infrared barriers

New active infrared barrier, strong, safe, reliable and easy to install. Thanks to its compact size (25x23 mm) it discreetly adapts to suit the most varied needs (for example it can be installed between the window and the blinds or the roller shutter).

Microprocessor based SMD technology.

The barrier may be installed either indoors or outdoors thanks to its polycarbonate structure, with its high mechanical strength and resistance to atmospheric agents (IP65 degree) and UV rays.

Special design features enable compensation for expansion due to temperature changes.

Maximum stability of wall-mounted columns thanks to intermediate fastening elements.

EASY TO INSTALL: supplied with pre-wired cable, no special alignment procedures required.

The synchronisation of beams is obtained automatically by way of an optical signal (without synchronisation cable).

POSSIBLE INSTALLATION OF SEVERAL consecutive or parallel barriers thanks to automatic pairing encoding the first time the device is switched on.

EQUIPPED WITH ANTI-REMOVAL AND ANTI-OPENING DEVICE on both ends.

Alarm memory.

3 different operating modes: point-to-point beams, adjacent beams and cross beams.

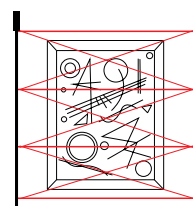
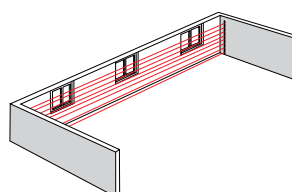
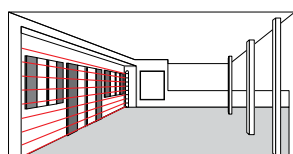
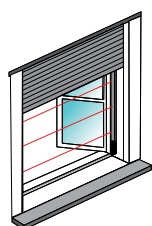
4 models available for small- to large-size installations: EL20RT/05 (0.5m - 2 beams), EL20RT/10 (1m - 4 beams), EL20RT/15 (1.5m - 6 beams), EL20RT/20 (2m - 8 beams).

Range: from 40 cm to 10 m for outdoor and from 40 cm to 20 m for indoor.



EL20 BARRIERS

### Examples of different applications of EL20 barriers



## INFRARED BARRIERS

### EL20 Infrared barriers

#### EL20RT/05 item no. 80EL1000211

Indoor/outdoor barrier

- Column height: 0.5 m
- 2 beams
- Adjustable outdoor range from 40 cm to 10 m
- Max indoor range 20 m
- RX-TX rated supply voltage: 12 Vdc
- RX-TX min and max operating voltage: 10.5 - 15 Vdc
- Activation time management: → 0.1 s (interruption of 2 adjacent means), 1 s (interruption of 1 beam only)
- Output signal: PM (pulse mode) transmission
- Alarm relay contact: 0.1 A@24 Vdc with series-connected prot. R=10 Ohm
- Anti-tamper and anti-removal microswitch: 50 mA@12 Vdc
- Protection degree declared by manufacturer: IP65 IK04
- Certified protection degree (IEC 70.1): IP34
- Guaranteed performance level: 2nd
- Malfunction indication: Optic, with flashing red led.
- Certified operating temperature (IEC 79.2): -25° ÷ +55° C
- Dimensions (W x H x D): 540 x 25 x 23 mm
- Weight: 250 g
- Amp Certification



EL20RT/05

#### EL20RT/10 item no. 80EL1100211

Same as EL20RT/05 but with:

- Column height: 1 m
- 4 beams
- Dimensions (W x H x D): 1030 x 25 x 23 mm
- Weight: 500 g



EL20RT/10

#### EL20RT/15 item no. 80EL1200211

Same as EL20RT/05 but with:

- Column height: 1.5 m
- 6 beams
- Dimensions (W x H x D): 1520 x 25 x 23 mm
- Weight: 750 g



EL20RT/15









#### EL20RT/20 item no. 80EL1300211

Same as EL20RT/05 but with:

- Column height: 2 m
- 8 beams
- Dimensions (W x H x D): 2020 x 25 x 23 mm
- Weight: 1000 g



EL20RT/20

PRODUCT	QUALITY CERTIFICATION MARKS	
EL20RT/05		
EL20RT/10		
EL20RT/15		
EL20RT/20		



## INFRARED BARRIERS

### EL15 Infrared barriers

New generation of outdoor protections; a special technology eliminates all disturbances and false pairings caused by interferences between adjacent barriers. This is achieved thanks to an additional circuit known as "synchroniser" and designed to synchronise and pair the barriers. Therefore each transmitter is coded and paired with its receiver and cannot interfere with other receiver.

15 different codes are possible for each barrier cell (set by rotary switch), therefore it is possible to install up to a maximum of 15 barriers without interference even if they are very close to each other.

When installing in cold areas, it is advisable to use the RS10 heating circuit (optional); provisions have been made for the insertion of this circuit into the transmitter and the receiver. The EL15 barrier is immune to environmental disturbances caused by the sun or by other infrared reflections.

Furthermore, the device features a circuit for alarm disqualification (exclusion), which, in case of heavy fog, snow or downpours, blocks the alarm relay into a "rest" position and sends an electrical signal to the terminal board. The disqualification circuit resets the systems automatically when the above-mentioned condition has ceased.

#### EL15R/T item no. 80EL0400111

##### Outdoor barrier

- Range 100 m
- Beam max. width: 2.5 m
- Receiver sensitivity adjustment for ranges up to 30 m
- Photo-transmitter: aluminium gallium arsenide
- Fresnel lens optics technology
- SMD circuit technology
- Modulation of transmitted signal
- Synchronisation device for coded transmission. This device allows to install on the same barrier up to 15 pairs of devices
- High sensitivity
- Receiver lock control (TC)
- Test LED
- Adjustment of beam interruption time
- Equipped with anti-tamper device and built-in disqualification circuit
- Supply voltage: 10.5 ÷ 14 Vdc
- Transmitter absorption: 10 mA
- Receiver absorption: 27 mA at rest; 15 mA in alarm condition
- Operating temperature: -10° ÷ +60° C
- Operating temperature with RS10 (heating resistance): -30° ÷ +60° C
- Dimensions (H x W x D): 62 x 60 x 150 mm



EL15R/T

#### EL15/S item no. 80EL0360115

Synchronisation module for EL15RT





## COLUMNS FOR INFRARED BARRIERS

### SP60 Columns

The SP60 column for infrared perimeter barriers is built with black anodised aluminium section and polycarbonate coating. Available in two models, with single (180°) and double (360°) direction with height from 1 to 3 m. With the dedicated accessories, it can be mounted on the wall or the floor. It includes lower and upper covers, thermostat unit, anti-climb over device and protection (tamper) micro switch for upper cover (floor-mounted). The columns are compatible with barrier models ELKRON EL50, EL15.

#### KIT SP60/10 item no. 80SP5A00113\*\*

##### 1 m column kit

→ Kit composed of a black anodised aluminium SINGLE DIRECTION column including:

- 1 polycarbonate cover plate
- Barrier fastening screw kit (EL60, EL15)
- 1 cover
- 1 TER60 thermostat
- 1 RS60 heating resistance
- 1 AS60 anti-climb over device
- 1 ABTS tamper for upper cover protection

#### KIT SP60/15 item no. 80SP4B00113

##### 1.5 m column kit

→ Same as model KITSP60/10 but 1.5 m column height

#### KIT SP60/20 item no. 80SP1B00113

##### 2 m column kit

→ Same as model KITSP60/10 but 2 m column height

#### KIT SP60/25 item no. 80SP5B00113

##### 2.5 m column kit

→ Same as model KITSP60/10 but 2.5 m column height

#### KIT SP60/30 item no. 80SP2B00113\*\*

##### 3 m column kit

→ Same as model KITSP60/10 but 3 m column height

#### KIT SP60-360/10 item no. 80SP6A00113\*\*

##### 1 m column kit

→ Kit composed of a black anodised aluminium DOUBLE DIRECTION 360° column including:

- 2 polycarbonate cover plates
- Barrier fastening screw kit (EL60, EL15)
- 2 covers
- 1 TER60 thermostat
- 1 RS60 heating resistance
- 1 AS60 anti-climb over device
- 1 ABTS tamper for upper cover protection

#### KIT SP60-360/15 item no. 80SP7A00113

##### 1.5 m column kit

→ Same as model KITSP60-360/10 but with:

- Column height 1.5 m



SP60



SP60-360

\*\*available upon order



## COLUMNS FOR INFRARED BARRIERS

### SP60 Columns

#### KIT SP60-360/20 item no. 80SP8A00113

2 m column kit

- Same as model KITSP60-360/10 but with:
- 2 m column

#### KIT SP60-360/25 item no. 80SP9A00113

2.5 m column kit

- Same as model KITSP60-360/10 but with:
- Column height 2.5 m

#### KIT SP60-360/30 item no. 80SP6B00113\*\*

3 m column kit

- Same as model KITSP60-360/10 but with:
- Column height 3 m



BRACKETS KIT SP60/20

### Accessories for SP60 columns

#### TER60 THERMOSTAT item no. 80EL1910163

Thermostat

- Activates the heating resistance when the temperature falls below 4°C

#### FLOOR-MOUNTED SP60/20 BASE item no. 80SP7B10163

Floor-mounted base (2 pcs)

- For floor mounting of columns up to 2 m



SP60/20 BASE

#### FLOOR-MOUNTED SP60/30 BASE item no. 80SP8B10163

Floor-mounted base (2 pcs)

- For floor mounting of columns over 2 m

#### BRACKETS KIT SP60/20 2xWALL-MOUNTING item no. 80SP9B10163

Brackets for wall-mounting (2 pcs)

#### CLAMP ZAxSP60 BASE - TO BE FIXED WITH CEMENT item no. 80SP1C10163

Clamp for base to be fixed with cement (2 pcs)

- Base necessary to cement the column into ground

#### ANTI-CLIMB OVER AS60 item no. 80EL2010163

Anti-climb over device

- The device activates the alarm in the case of weights over 25 Kg

#### COVER PROTECTION MICROSWITCH MS60 item no. 80EL2110163

Microswitch for column cover protection

- To be used in case of wall installation for lower cover protection



MICROSWITCH MS60

\*\*available upon order

AI	FI						
	INTRUSION DETECTION	FIRE DETECTION					
ALPHABETIC INDEX	SALES NETWORK	OUTDOOR PROTECTIONS				HYBRID SYSTEMS	
		ACCESSORIES	COMMUNICATORS	SIRENS	WIRELESS SYSTEMS		
		VISUAL-ACOUSTIC INDICATORS	GAS DETECTION SPECIAL DETECTORS	EXTINGUISHING SYSTEM			DIGITAL SYSTEMS



### MICROWAVE BARRIERS

#### MWA60R/T Microwave Barrier

MWA60 is an active microwave barrier with 60m maximum range, designed for indoor and outdoor surface protection. The system is made up of two units. The equipment is built with solid state devices only and finished with tropicalising resin in order to ensure excellent weather-tightness.

##### Protection lobe

The radiation field shape is well-defined to ensure higher detection probability. The transmitter features a planar microwave emitting a highly steady, low-power narrow and directive beam.

##### Selectable channels

Transmitter and receiver can be tuned in frequency through dip switches enabling to code 5 different channels. In this way, interference is prevented in the case of simultaneous installations of more pairs of barriers.

##### Selective filter

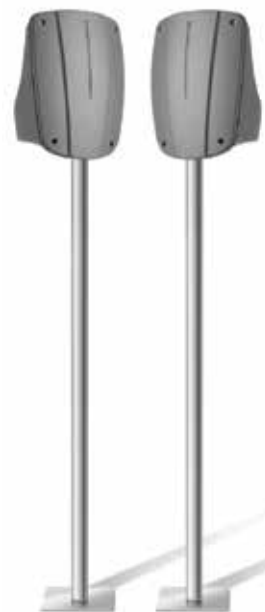
Each receiver features a particular selective filter which only chooses the frequency of its own channel and rejects other frequencies.

##### Automatic compensation

The receiver features special signal auto-adjustment and elaboration circuits that provide automatic compensation of environmental conditions.

##### Disqualification notification

The receiver features an output which is activated in case of insufficient signal strength. This prevents and warns about any misalignment produced either when the system is off or due to obstacles in the barrier operating beam.







### MICROWAVE BARRIERS

#### MW30RT Microwave barriers

**MW30RT item no. 80MW1900111**

Outdoor microwave barrier

- Range: 180 m (program. 15 ÷ 100 m, 100 ÷ 180 m)
- Beam width: 6 m adjustable
- Four modulation channels
- Battery housing: 12 Vdc - 1.9 Ah
- Frequency: in accordance with national frequencies
- Power supply: 10.5 ÷ 14 Vdc or 16 ÷ 18 Vac
- Consumption: 85 mA (TX), 35 mA (RX)
- Beam width adjustment
- Automatic gain control (AGC)
- Activation time adjustment
- Possibility of alternating current supply
- Anti-tamper function
- Calibration and control test points
- Internal warning LED for visualisation during installation



MW30RT

#### Accessories for MW30 microwave barriers

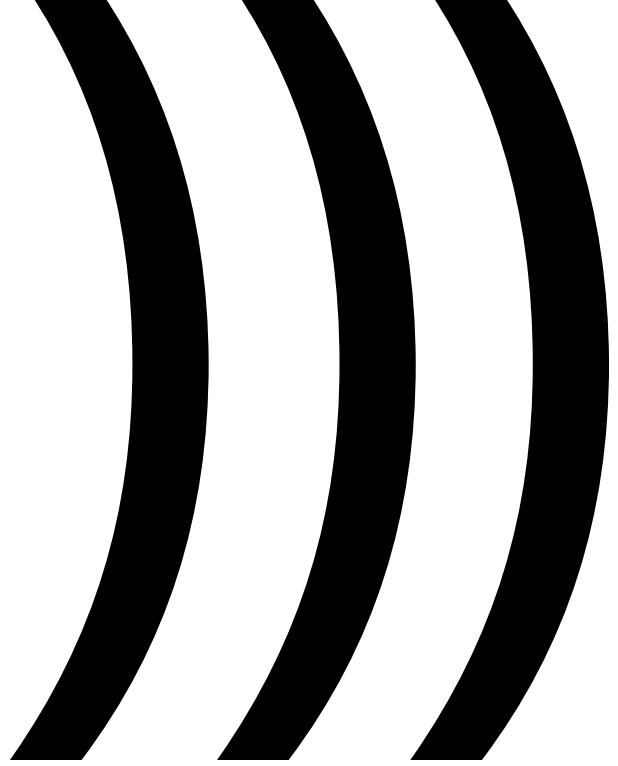
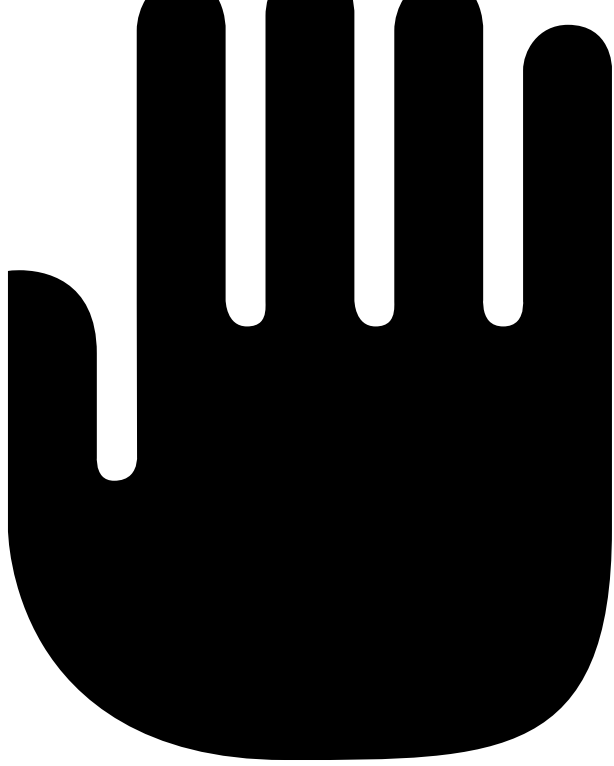
**SP10/15 item no. 80SP1000111**

Galvanised pole for MW30RT. Height 1.5 m

**SP10/20 item no. 80SP1100111**

Galvanised pole for MW30RT. Height 2 m





→ SIRENS



## →62 OUTDOOR SIRENS

## →65 INDOOR SIRENS

ALPHABETIC INDEX	SALES NETWORK				ACCESSORIES	COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS	PERIMETER DETECTORS	VOLUMETRIC DETECTORS	WIRELESS SYSTEMS	HYBRID SYSTEMS
					VISUAL-ACOUSTIC INDICATORS	GAS DETECTION SPECIAL DETECTORS	WIRELESS STAND-ALONE SYSTEM	EXTINGUISHING SYSTEM	DIGITAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION		CONVENTIONAL SYSTEMS



### OUTDOOR SIRENS

HPA703XP item no. 80HP8700211

#### Outdoor siren

- Silver paint die-cast aluminium siren
- Integrated flashing light with LED technology (polycarbonate)
- Controls managed through microprocessor
- Acoustic pressure: 103 dB [A] @ 3 m
- Internal cage in 8/10 galvanized sheet metal
- Anti-opening and removal protection
- Electronic anti-perforation protection
- Electronic anti-foam protection
- Overtemperature warning (oxyhydrogen flame, oxygen lance): optional
- Start block function
- Alarm storage (with flash blinking)
- Sound mode programmable on 16 different modulations. DEMO function for listening to different sound modulations (with reduced loudness)
- Battery and horn malfunction self-diagnosis
- Possibility to fit a mini water level
- Block (BL) and TC inputs can be programmed as balanced or normally closed, referred to positive or negative
- Sound time-out in case of permanent lack of block signal (4 different programmable timings)
- Alarm count (can be excluded)
- Battery test (under load), strobe light and horn integrity
- Malfunction output for low battery, interruption or short circuit of the flash module, horn interruption or short circuit, protection module malfunction (if present)
- Protection from battery polarity inversion and supply from control unit
- System status function for "scaffolding"
- Visual "malfunction status" and "system status" warning
- Rated power supply voltage: 13,8 Vdc , 14,4 Vdc
- Operating voltage (min – max): 9 – 15 Vdc
- Maximum absorption at rest: 8 mA
- Maximum absorption in alarm: 1150 mA
- Maximum absorption from control unit: 150 mA
- Flash absorption: 900 mA peak; 65 mA average
- Operating frequency: 1400 ÷ 1600 Hz
- Input lock voltage (NC to positive): 4,3 Vdc min. ÷ Vdc max
- Input lock voltage (balanced to positive): 3,5 min ÷ 7,5 Vdc max
- Low battery threshold: 11,2 Vdc ÷ 11,4 Vdc
- Anti-opening/anti-removal microswitch: 1 A @ 24 Vdc
- Protection module tamper contact (solid-state relay): 50 mA @ 50 Vdc; R type = 20 ohm
- Certified operating temperature: -25°C ÷ +70°C
- Certified casing protection degree: IP43 / IK06
- Battery: 12 V / 2,2 Ah
- Dimensions (W x H x D): 237 x 287 x 90 mm



HPA703XP



## OUTDOOR SIRENS

HPA700M item no. 80HP9A00211 **NEW**

Self-powered outdoor siren with flasher

Programmable functions:

- SOUND TIME-OUT
- INPUT TYPE
- INPUT REFERENCE
- ALARM COUNT
- SCAFFOLDING FUNCTION
- 8 SOUND MODES
- ALARM REPORT
- PROTECTION MODULE MANAGEMENT
- FAULTY LED enabling /system status LED
- Operating voltage: Average 9 ÷ 15 Vdc
- Maximum absorption at rest: 7 mA
- Maximum absorption in alarm: 1600 mA medium
- Maximum absorption from control unit: 150 mA
- Acoustic pressure: → 110 dB (A) @ 1 m
- Operating frequency: 1400 ÷ 1600 Hz
- Input block voltage (double-balanced to positive): 5.1 ÷ 8.7 Vdc
- Input activation voltage (double-balanced to positive): 2.3 ÷ 5.0 Vdc
- Input absorption: 1 mA at (double-balanced); 2.2 mA (NC)
- Duration with internal battery in rest conditions: 60 hours
- Low battery threshold: 11.5 Vcc
- Low battery threshold: 10 Vdc
- Siren tamper contact (solid-state relay): 50 mA at 50 Vdc; R type = 20 Ω
- Protection module tamper contact (solid-state relay): 50 mA @ 50 Vcc; R typ = 20 Ω
- Environment class: IV
- Certified operating temperature: -25 °C ÷ +70°C
- Maximum permitted humidity: 93%
- Certified casing protection degree: IP44 / IK08
- External cover material: die-cast aluminium
- Flash material: Self-extinguishing PC-ABS
- Optional inner cage material: 8/10 galvanized sheet metal
- Base material: Self-extinguishing PC-ABS
- Battery: 12V – da 1,9 a 2,2 Ah
- Dimensions (W x H x D): 203 x 253 x 87 mm
- Weight (without battery): 1500 g
- Tamper: Anti-opening and removal
- Ensured performance level (EN50131-4): Class 3



HPA700M

AI	FI	
	INTRUSION DETECTION	FIRE DETECTION
ALPHABETIC INDEX	SALES NETWORK	
	ACCESSORIES	COMMUNICATORS
SIRENS	OUTDOOR PROTECTIONS	
	PERIMETER DETECTORS	VOLUMETRIC DETECTORS
WIRELESS SYSTEMS	HYBRID SYSTEMS	
	DIGITAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION
CONVENTIONAL SYSTEMS	EXTINGUISHING SYSTEM	
	WIRELESS STAND-ALONE SYSTEM	GAS DETECTION SPECIAL DETECTORS
VISUAL-ACOUSTIC INDICATORS	VISUAL-ACOUSTIC INDICATORS	
	GAS DETECTION SPECIAL DETECTORS	



## OUTDOOR SIRENS

HPA700P item no. 80HP7A00211 **NEW**

Self-powered outdoor siren with flasher

- Programmable functions:
  - SOUND TIME-OUT
  - INPUT REFERENCE
  - ALARM COUNT
  - SCAFFOLDING FUNCTION
  - REMOTE POWER SUPPLY DETECTION
- Operating voltage v:  $9 \div 15$  Vdc
- Maximum absorption at rest: 7 mA
- Maximum absorption in alarm: 1600 mA average
- Maximum absorption from control unit: 150 mA
- Acoustic pressure:  $\rightarrow 110$  dB (A) @ 1 m
- Operating frequency:  $1400 \div 1600$  Hz
- Certified operating temperature:  $-25^{\circ}\text{C} \div +70^{\circ}\text{C}$
- Maximum permitted humidity: 93%
- Certified casing protection degree: IP44 / IK07
- External cover material: Self-extinguishing PC-ABS
- Optional inner cage material: 8/10 galvanized sheet metal
- Battery: 12V - da 1,9 at 2,2 Ah
- Dimensions (W x H x D): 203 x 253 x 87 mm
- Weight (without battery): 1100 g
- Tamper: Anti-opening and removal
- Ensured performance level (EN50131-4): Class 2
- Two command inputs:
  - AL: alarm command
  - S: system status command



HPA700P

### Accessories

Internal cage item no. 80HP7A10111

- Cage for HPA700P and HPA700M sirens
- Increases siren protection



INTERNAL CAGE


HPA700/N item no. 80HP9A10111

Additional protection module

- Able to detect tampering attempts with foam, drilling and temperature attacks
- Operating voltage (min - max):  $9 \div 15$  Vdc
- Solid-state relay output: 50 mA at 50 Vdc; R type = 20  $\Omega$
- Absorption: 5 mA



HPA700/N

PRODUCT	QUALITY CERTIFICATION MARKS	
HPA700M	EN50131-4 class 3	
HPA700P	EN50131-4 class 2	

## INDOOR SIRENS

HP375M item no. 80HP1B00211

Indoor siren with metal casing

- Sound pressure: 116±1 dB (A) @ 1 m
- Max. absorption in alarm condition: 2,2 A
- Protection from battery polarity inversion and power supply from control unit
- Alarm Controls and System status with NC contact
- Programmable reference to POSITIVE or NEGATIVE
- Sound block function
- Sound inhibition at first supply
- Programmable alarm count function
- Two command inputs
- System status input
- Operating voltage: 13.8 VDC - 15 VDC
- Absorption at rest: 3 mA at 12 Vdc
- Operating frequency: 1700 Hz (AL2 intermittent tone)  
2000-3000 Hz (power tone)
- Maximum absorption from control unit: 150 mA
- Micro-switch against opening/removal: 1 A at 24 Vdc
- Certified operating temperature: -25°C +55°C
- Maximum permitted humidity: 93%
- Environment class: II
- Housing protection rating: IP30/IK06
- Housing material: painted, galvanised steel
- Anti-opening and anti-removal protection
- Allocable battery: 12 V from 2 to 2.2 Ah
- Dimensions (W x H x D): 195x180x55 mm
- Weight (without battery): 1300 g
- Ensured performance level (EN50131-4): Class 2



HP375M

HPA100 item no. 80HP9300111

Indoor siren with protected plastic casing

- Sound pressure: 110 dB(A) @ 1m
- Sound frequency: 3500 – 3700 Hz (TBD)
- Operating voltage: 12 or 24Vdc rated (10,5 at 30 Vdc)
- Absorption: max 260 mA at alarm
- Protection against polarity inversion
- Anti-opening protection
- Dimensions (H x W x D): 145 x 100 x 42 mm

HPA100A item no. 80HP9400111

SELF-POWERED indoor siren.

Features same as previous model but with:

- Absorption at rest: max 12 mA
- Battery: 9V Alkaline or 8.4V NiMh rechargeable (not provided)
- Battery type selection: programmable
- 2 commands: BL1 for alarm BL2 for warning
- BL2 command tone: programmable, with 2 levels
- Timeout: programmable to 3, 6, 9 min
- Command polarity: programmable to positive or negative



HPA100 / HPA100A

PRODUCT	QUALITY CERTIFICATION MARKS	
HP375M	EN50131-4 class 2	

AI	FI
INTRUSION DETECTION	FIRE DETECTION
HYBRID SYSTEMS	CONVENTIONAL SYSTEMS
WIRELESS SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION
VOLUMETRIC DETECTORS	DIGITAL SYSTEMS
PERIMETER DETECTORS	EXTINGUISHING SYSTEM
OUTDOOR PROTECTIONS	WIRELESS STAND-ALONE SYSTEM
SIRENS	GAS DETECTION SPECIAL DETECTORS
COMMUNICATORS	VISUAL-ACOUSTIC INDICATORS
ACCESSORIES	
SALES NETWORK	
ALPHABETIC INDEX	



## → COMMUNICATORS





### COMMUNICATORS

When an alarm is triggered, it is important that it reaches as quickly as possible those who are best equipped to intervene. Elkron communicators offer top performance thanks to the innovative combination of GSM modules and SMS texting capacity. In fact, thanks to the built-in GSM module using an additional mobile device is not necessary.

Anywhere and with any telephone, you can receive the alarms, monitor and receive instant voice notifications, or plain language SMS notifications using a GSM mobile phone. The flexibility of Elkron's new communicators allows to associate events and recipient telephone numbers, and for each one to choose which telephone system to use (GSM and/or PSTN).

For maximum security the new Elkron's communicators, verify the availability of the network and in case of tampering or malfunctions, they automatically switch to an alternative network. In addition, they send precious information, such as SIM card expiry date, technical malfunction and telephone malfunction.

## GSM COMMUNICATORS

### GSM Communicator

CT10-M item no. 80CT4600111

Voice synthesis GSM cellular communicator with GSM module included

- Alarm communication via voice messages on GSM network and via SMS (programmable from keypad)
- Telephone numbers: 12 (max 28 digits)
- Voice messages: 1 standard message (10 sec) + 5 x 10-second messages or 10 x 5-second messages
- SMS messages: 4 messages max 40 characters
- Remote control feedback (via voice messages)
- Non-volatile memory operational even in absence of power supply
- SIM card expiration warning
- Answering service function
- Remote call barring (DTMF control)
- Connection check
- Built-in alphanumeric keypad with 1 line 16 character LCD display
- 6 LEDs for system status and malfunction visualisation
- Telephone line test: network coverage test always enabled
- Alarm inputs: 2
- TC input: 1
- Programmable outputs:
  - 2 electric MALFUNCTION outputs
  - 3 outputs (2 electric, 1 relay) switchable from remote via DTMF controls or local keypad
- Memory: alarms and call outcome
- Programming codes: User/Installer code
- Voice synthesis: non-volatile, through earphones and microphone (supplied)
- Remote enquiries and control
- Remote controlled inputs/outputs: DTMF codes
- Outputs remote control: DTMF codes
- Anti-opening protection
- Operating voltage: 10,5 ÷ 14 Vdc
- Battery: 12 Vdc - 2,2 Ah
- Dimensions (W x H x D): 245 x 185 x 70 mm



CT10-M

CT12-M/B-F item no. 80CT7500113

4-channel GSM sequence switch with French menu

The CT12-M/B-F sequence switch manages 4 alarm inputs and 2 outputs, performs a continuous monitoring and shows, through the LCD display, inputs and outputs status, battery voltage, signal intensity and manages a periodic test of proof of life.

- Supply voltage: 13.8V
- Minimum operating voltage: 10.5V
- Absorption at rest at 13.8V: 140mA
- Absorption during phone cycle at 13.8V: 270mA
- Operating temperature: +5°C + 45°C
- Speech synthesis phone transmission: 120 sec per 12 messages
- Installer Code: 1
- User Code / Surveillance code: 1
- Output activation code: 2
- SMS messages: Transmission and Reception
- Phone numbers: 16 of 24 characters
- Test phone number: 1 of 24 characters
- Provider phone number: 1 of 24 characters
- Delayable inputs 0-60 sec. 0-90 min: 4
- Control input (lock): 1
- Controllable outputs: 2
- Event log file: 99 events
- Display: LCD 16 x 2
- Keypad: 18 Keys
- Dimensions (W X H X D): 131 x 121 x 31 mm



CT12-M/B-F

CT12-M/B item no. 80CT7400113

4-channel GSM sequence switch with Italian menu

Same as CT12-M/B-F with Italian menu

AI	FI												
	INTRUSION DETECTION	FIRE DETECTION											
ALPHABETIC INDEX	SALES NETWORK	COMMUNICATORS		ACCESSORIES	SIRENS	OUTDOOR PROTECTIONS	PERIMETER DETECTORS	VOLUMETRIC DETECTORS	WIRELESS SYSTEMS	HYBRID SYSTEMS			
		GAS DETECTION SPECIAL DETECTORS									EXTINGUISHING SYSTEM		DIGITAL SYSTEMS
		VISUAL-ACOUSTIC INDICATORS		WIRELESS STAND-ALONE SYSTEM									



## GSM COMMUNICATORS

### GSM and PSTN communicators

CT11-M item no. 80CT4700111

Dual-standard GSM/PSTN Voice Synthesis cellular communicator with GSM module included.

- Programmable alarm channel: via voice or SMS messages on GSM network or on PSTN line
- Telephone numbers: 12 (max 28 digits)
- Voice messages: 1 standard message (10 sec) + 5 x 10-second messages or 10 x 5-second messages
- SMS messages: 4 messages max 40 characters
- Remote control feedback (via voice messages)
- Non-volatile memory operational even in absence of power supply
- SIM card expiration warning
- Answering service function
- Remote call barring (DTMF control)
- Connection check
- Built-in alphanumeric keypad with 1 line 16 character LCD display
- 6 LEDs for system status and malfunction visualisation
- Telephone line test: network coverage test always enabled
- Alarm inputs: 2
- TC input: 1
- Programmable outputs:
  - 2 electric MALFUNCTION outputs
  - 3 outputs (2 electric, 1 relay) switchable from remote via DTMF controls or local keypad
- Memory: alarms and call outcome
- Programming codes: User/Installer code
- Voice synthesis: non-volatile, through earphones and microphone (supplied)
- Answering machine bypass on PSTN line
- PSTN telephone line test
- Automatic backup on available telephone network
- Remote enquiries and control
- Input/output status: DTMF codes, SMS with pre-recorded voice answer
- Output remote control: DTMF codes, SMS
- Anti-opening protection
- Operating voltage: 10,5 ÷ 14 Vdc
- Battery: 12 Vdc - 2,2 Ah
- Dimensions (W x H x D): 245 x 185 x 70 mm



CT11-M

ANTENNA GSM 1 item no. 80AN0300111

Remote antenna

- GSM remote antenna 1 is supplied with bracket, screw anchors for wall mounting and 5 m cable assembly with SMA-M connector compatible with GSM IMG500 module. It is useful when the control unit position does not ensure a sufficient field coverage for the GSM module.



ANTENNA GSM 1



## PSTN COMMUNICATORS

### PSTN Communicator

CT06 item no. 80CT4900211

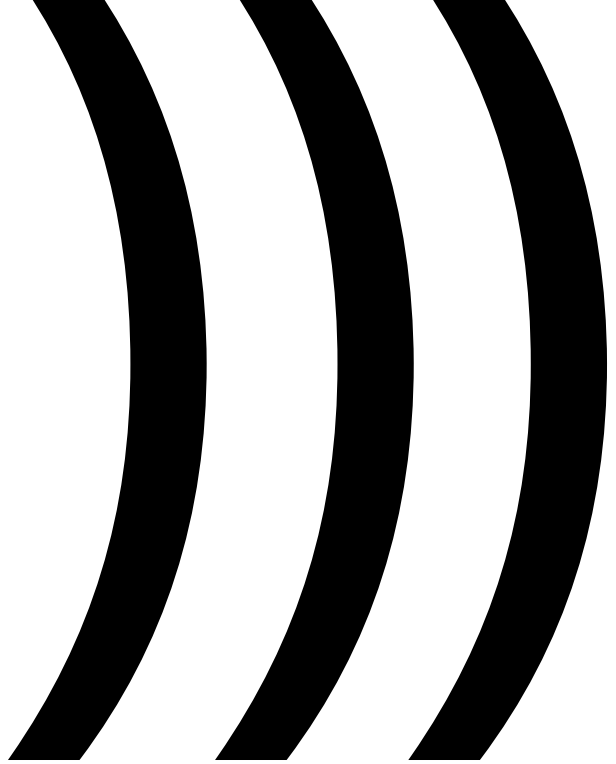
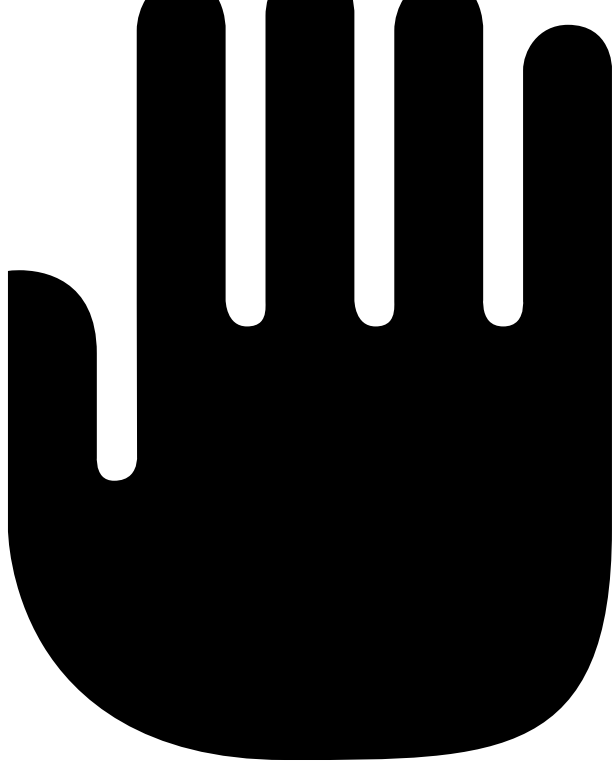
#### PSTN Communicator

- The CT06 communicator is the result of ongoing innovation and research carried out on Elkron products. CT06 features voice synthesis and is the ideal solution for use with PSTN telephone lines, ensuring top performance thanks to cutting-edge technical specifications. For instance, it enables users to control up to three outputs remotely via the keypad of their own telephone or mobile. The CT06 communicator features several useful functions, such as answering machine bypass, automatic answer function, current call block with code, dynamic telephone line test, event log, multilanguage menu (6 languages) and 6 national PSTN telephone networks
- Compliant with European standard TBR21
- Equipped with 2 programmable alarm inputs NC, NO, balanced and NOT in use + 1 control input (TC). All referred to positive or negative
- WARNING AND CONTROL OUTPUTS: The CT06 communicator is equipped with 5 outputs (4 open collector electric outputs and 1 relay output). 2 outputs are reserved for malfunction warnings, while the remaining ones are reserved for DTMF controls, remote controls or controls from the local built-in keypad; alternatively, they can be associated exclusively to alarm inputs IN1 and IN2
- TELEPHONE NUMBERS: 12 telephone numbers of up to 28 digits each, up to 10 voice messages (1 10-second standard message + 9 5-second messages) for confirmation of alarm activation and DTMF remote control reception. Recording and playback are done with the supplied earphone
- WARNING LEDs: the 16-character 2-line LCD display and the 6 LEDs ensure quick access to programming via user menu, installer menu and system status (even in case of power supply failure, thanks to the non-volatile memory).
- Malfunction electric outputs: 2 – I<sub>max</sub> 10 mA each
- Remotely controllable electric outputs: 2 – I<sub>max</sub> 10 mA each
- Remotely controllable relay output: 1 – I<sub>max</sub> 1A (on relay exchange)
- Available languages: Italian/French/English/German/Spanish/Portuguese
- Programmable telephone networks: Italy/France/UK/Germany/Spain/Portugal
- Signalling type: DEC/DTMF
- Low battery threshold: <10.8 Vdc
- Anti-opening protection
- Minimum operating voltage: 12 Vdc
- Maximum operating voltage: 14.5 Vdc
- Normal absorption at rest: 70 mA
- Maximum absorption: 250 mA
- Current on aux. power supply output: max 150 mA
- Battery: 12 Vdc – 2.2Ah
- Display: 2-line 16-character LCD
- Operating temperature: +5°C/+40°C
- Dimensions (W x H x D): 245 x 185 x 70 mm



CT06

AI	INTRUSION DETECTION		FI												
	FIRE DETECTION		FIRE DETECTION												
ALPHABETIC INDEX	SALES NETWORK	COMMUNICATORS		HYBRID SYSTEMS		WIRELESS SYSTEMS		VOLUMETRIC DETECTORS		PERIMETER DETECTORS		OUTDOOR PROTECTIONS		SIRENS	
		ACCESSORIES		WIRELESS SYSTEMS		VOLUMETRIC DETECTORS		PERIMETER DETECTORS		OUTDOOR PROTECTIONS		SIRENS		COMMUNICATORS	
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS		WIRELESS STAND-ALONE SYSTEM		EXTINGUISHING SYSTEM		DIGITAL SYSTEMS		UNIVERSAL BASES FOR DUCTED DETECTION		CONVENTIONAL SYSTEMS	



## → ACCESSORIES



- 74 ACTIVATION SYSTEMS
- 75 KEY READER ADAPTORS
- 76 TRANSMITTERS / ALARM PUSHBUTTONS
- 76 BATTERIES
- 77 POWER SUPPLY UNIT

ALPHABETIC INDEX	SALES NETWORK		ACCESSORIES	VISUAL-ACOUSTIC INDICATORS		COMMUNICATORS	GAS DETECTION SPECIAL DETECTORS	SIRENS	OUTDOOR PROTECTIONS	PERIMETER DETECTORS	DIGITAL SYSTEMS	VOLUMETRIC DETECTORS	UNIVERSAL BASES FOR DUCTED DETECTION	WIRELESS SYSTEMS	HYBRID SYSTEMS	<div> <div>AI</div> <div>INTRUSION DETECTION</div> </div> <div> <div>FI</div> <div>FIRE DETECTION</div> </div>



## ACTIVATION SYSTEMS

### DK21 System

DK21S item no. 80DK2300211

Microprocessor-based activation system

- The board manages up to 4 DK2000M key readers with an unlimited number of keys and up to 4 KP100D keypads. Communication type: serial ELKRON protocol. Activation zones: 3
- Supply voltage: 12Vdc. Serial line max length: 500 m

DK2000M item no. 80DK2000111

Standard key reader suitable for Bticino® Magic boxes and frames

- ELKRON adaptors are required for use with other Bticino® products and Gewiss®, Ave® and Vimar® products. 2 built-in inputs
- Available in white version item no. DK2000M/B (80DK2400111)

DK20 item no. 80DK1700111

Electronic digital key

## KEY READER ADAPTORS

### Key reader adaptors

DKA/I item no. 80KT2200111

5 adaptor kit for modular Bticino® Light and Bticino International® wiring systems

→ DKAB/I (KT2600111) WHITE colour version

DKA/I



DKA/L item no. 80KT2300111

5 adaptor kit for modular Bticino® Living wiring system

→ DKAB/L (KT2700111) WHITE colour version

DKA/L



DKA/G item no. 80KT2400111

5 adaptor kit for modular Gewiss® Playbus wiring system

→ DKAB/G (KT2800111) WHITE colour version

DKA/G



DKA/A item no. 80KT2500111

5 adaptor kit for modular AVE® Sistema 45 wiring system

→ DKAB/A (KT2900111) WHITE colour version

NOTE: use of DK4000M key readers and the DKZ4/4000M partialiser with Vimar® Idea and Vimar® 8000 systems requires commercially available adaptors, item no. 16544 for Vimar® Idea and item no. 08324 for Vimar® 8000

DKA/VI item no. 80KT7500111

5 adaptor kit for Vimar® Idea wiring systems

→ DKAB/VI item no. KT7600111 - WHITE colour version

DKA/A



DKAB/VP item no. 80KT7700111

5 adaptor kit for Vimar® Plana wiring systems

DKA/AXO item no. 80KT4C00111

Adaptor kit (5 pcs) BLACK colour for Bticino® AXOLUTE wiring system

→ DKAB/AXO item no. KT5C00111 - WHITE colour version

DKA/VI



DKA/EIK item no. 80KT6C00111

Adaptor kit (5 pcs) BLACK colour for Vimar® EIKON wiring system

→ DKAB/EIK item no. KT7C00111 - WHITE colour version

DKA/VP



ALPHABETIC INDEX	SALES NETWORK	ACCESSORIES								AI	FI		
		COMMUNICATORS		SIRENS	OUTDOOR PROTECTIONS		PERIMETER DETECTORS	VOLUMETRIC DETECTORS	WIRELESS SYSTEMS	HYBRID SYSTEMS			
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS	WIRELESS STAND-ALONE SYSTEM		EXTINGUISHING SYSTEM	DIGITAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION				
										CONVENTIONAL SYSTEMS			
										INTRUSION DETECTION		FIRE DETECTION	



## TRANSMITTERS / ALARM PUSHBUTTONS

### Transmitters

RX02 item no. 80RX3240143

ROLLING-CODE wireless saw receiver for remote activation of any device

→ The functions of the 2 receiver channels can be IMMEDIATE, STEP-BY-STEP and WITH TIMER



RX02

TX02 item no. 80TX7950143

2-key transmitter

TX02M item no. 80TX7850143

Mini 2-key transmitter



TX02

AT01 item no. 80AT0410143

Antenna with 433.92 Mhz frequency

### Pushbutton

PA01-C item no. 80PL2300113

Antirobbery pushbutton, white colour, single key. Internal NC at rest contact

→ Resettable with plastic key



TX02M

## BATTERIES

RB06 item no. 80RB0410113

Water-proof rechargeable battery 12 V 7.2 Ah

RB12 item no. 80RB0110113

Water-proof rechargeable battery 6 V 1.3 Ah

RB 19 item no. 80RB0310113

Water-proof rechargeable battery 12 V 2.2 Ah

RB 15 item no. 80RB0810113

Water-proof rechargeable battery 12 V 18 Ah

RB 24 item no. 80RB0510113

Water-proof rechargeable battery 12 V 26 Ah

RB 612 item no. 80RB0910113

Water-proof rechargeable battery 6 V 12 Ah

RB 1212 item no. 80RB110113

Water-proof rechargeable battery 12 V 12 Ah

## POWER SUPPLY UNIT

AS02/S item no. 80PS3400111

### Power supply unit 1A

- Power supply unit with supplementary switching power unit in plastic casing.  
Housing for battery of up to 2Ah. Equipped with control module for mains presence, battery test, fuse failure. Electrical outputs for reporting of malfunctions and irregularities.  
Connector for connection to EP200 serial modules
- Mains voltage: 100 Vac ÷ 260 Vac
- Output voltage: 13.8 Vdc
- Current: 1 A
- Dimensions (H x W x D): 185 x 249 x 70 mm



AS02/S

AS07/S item no. 80PS3500211

### Power supply unit 1A

- Power supply unit with supplementary switching power unit in plastic casing.  
Housing for battery of up to 7Ah. Equipped with control module for mains presence, battery test, fuse failure. Electrical outputs for reporting of malfunctions and irregularities.  
Connector for connection to EP200 serial modules
- Mains voltage: 100 Vac ÷ 260 Vac
- Output voltage: 13.8 Vdc
- Current: 1 A
- Dimensions (H x W x D): 345 x 240 x 79 mm



AS07/S

AS15 item no. 80PS3200211

### Power supply unit 2,2A

- Power supply unit with supplementary switching power unit in plastic casing.  
Housing for battery of up to 18Ah. Equipped with control module for mains presence, battery test, fuse failure. Electrical outputs for reporting of malfunctions and irregularities.  
Connector for connection to EP200 serial modules
- Mains voltage: 100 Vac ÷ 260 Vac
- Output voltage: 13.8 Vdc
- Current: 2.2 A
- Dimensions (H x W x D): 318 x 422 x 91 mm



AS15

ALPHABETIC INDEX	SALES NETWORK	ACCESSORIES								
		COMMUNICATORS		SIRENS	OUTDOOR PROTECTIONS		PERIMETER DETECTORS	VOLUMETRIC DETECTORS	WIRELESS SYSTEMS	HYBRID SYSTEMS
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS	WIRELESS STAND-ALONE SYSTEM		EXTINGUISHING SYSTEM	DIGITAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION	
		FIRE DETECTION		FIRE DETECTION		FIRE DETECTION		FIRE DETECTION		FIRE DETECTION



## OVERVIEW

### FIRE DETECTION

#### CONVENTIONAL FIRE DETECTION SYSTEMS

##### → 83 C402-C404

Compact fire detection control units, with 2 and 4 zones, suitable for small-size installations, 32 devices per zone



##### → 84 C420

Modular fire detection control unit with 4 zones, expandable up to 20. LCD display with user interface, 32 devices per zone



##### → 85 DETECTORS

Range of photo-optical, heat, differential heat, optical heat detectors



##### → 87 PUSHBUTTONS

Range of manual reset/break glass pushbuttons and explosion-proof pushbuttons



#### UNIVERSAL BASES DUCTED DETECTION

→ 90 Universal bases for 400 series conventional systems and 500 series digital systems



→ 91 Analysis chamber for ducted detection



#### DIGITAL SYSTEMS

##### → 96 FAP541

Microprocessor control unit with 1 loop line. Possibility of managing up to 128 points per loop (64 per open line)



##### → 97 FAP544

Microprocessor control unit with 2 loop lines expandable up to 4. Possibility of managing up to 128 points per loop (64 per open line)



##### → 97 FAP548

Microprocessor control unit with 4 loop lines expandable up to 8. Possibility of managing up to 128 points per loop (64 per open line)



##### → 97 FAP5416

Microprocessor control unit with 8 loop lines expandable up to 16. Possibility of managing up to 128 points per loop (64 per open line)



#### → 98 MODULES AND ACCESSORIES

##### → 100 PUSHBUTTONS

Range of manual reset/break glass pushbuttons with teach-in circuit



##### → 100 DETECTORS

Range of photo-optical, heat, differential heat, optical heat detectors







## EXTINGUISHING CONTROL UNIT

### →105 CDS

Extinguishing control unit with one channel, expandable up to 2



## WIRELESS STAND-ALONE SYSTEM

### →108 CONTROL UNIT

Hybrid wired/wireless control unit module



### →109 ACCESSORIES

Input/Output modules



### →110 DETECTORS

Range of smoke detectors, heat detectors, optical heat detectors and push-buttons



### →112 ACTUATORS

Range of actuators di attuatori with or without flashing light

## GAS DETECTION SPECIAL DETECTORS



### →116 ST/PL4

Gas detection control unit for connection of 4 to 8 detectors



### →116 ST/MTSLB

Gas detection control unit for connection of 8 to 104 detectors



### →117 EX II 3GD GAS DETECTORS

Petrol vapours /Carbon Monoxide Natural Gas / LPG



### →119 EX II 2GD GAS DETECTORS

Petrol vapours /Carbon Monoxide Natural Gas / LPG



### →120 RA/209

Electronic liquid detector (for nonflammable liquids)



## SPECIAL DETECTORS

### →120 RLB/1 - RLB/2

Linear heat detectors calibrated to 68° C and 105° C (certified)



### →121 XCC-011

Intake smoke detector with highsensitivity Laser detection chamber



### →122 FL100

Tx + Rx smoke linear detector



### →123 FLR100

Reflection smoke linear detector

## VISUAL-ACOUSTIC INDICATORS



### →126 PANELS

Single- and double-side visual acoustic panels with voice synthesis



### →128 SIRENS

Indoor and outdoor sirens



### →130 VISUAL REPEATERS

## ACCESSORIES

### →131 POWER SUPPLY UNITS

Power supply units with output voltage of 27.6 V for versions from 2.5 to 5 A



### →131 ELECTROMAGNETIC DOOR STOPS

Electromagnetic door stops for fire doors



### →131 BATTERIES

12 V batteries from 2.2 to 26 A

HYBRID SYSTEMS

WIRELESS SYSTEMS

VOLUMETRIC DETECTORS

PERIMETER DETECTORS

OUTDOOR PROTECTIONS

SIRENS

COMMUNICATORS

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DIGITAL SYSTEMS

EXTINGUISHING SYSTEM

WIRELESS STAND-ALONE SYSTEM

GAS DETECTION SPECIAL DETECTORS

VISUAL-ACOUSTIC INDICATORS



## → CONVENTIONAL FIRE DETECTION SYSTEMS



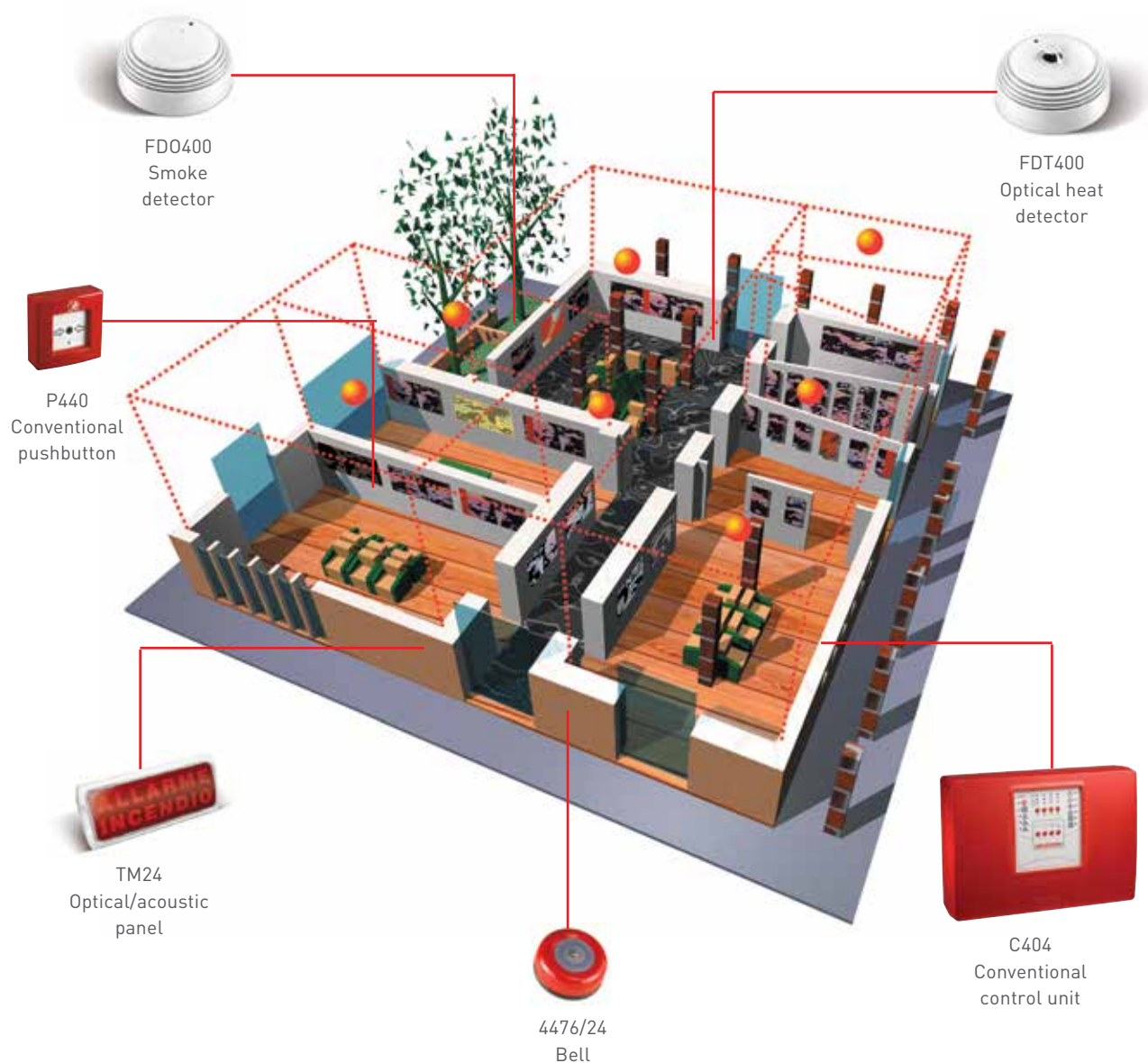
- 83 C402 CONTROL UNIT
- 83 C404 CONTROL UNIT
- 84 C420 CONTROL UNIT
- 85 DETECTORS
- 87 PUSHBUTTONS

ALPHABETIC INDEX		SALES NETWORK		ACCESSORIES		COMMUNICATORS		SIRENS		OUTDOOR PROTECTIONS		PERIMETER DETECTORS		VOLUMETRIC DETECTORS		WIRELESS SYSTEMS		HYBRID SYSTEMS		FIRE DETECTION		AI	
				VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS				WIRELESS STAND-ALONE SYSTEM		EXTINGUISHING SYSTEM		DIGITAL SYSTEMS		UNIVERSAL BASES FOR DUCTED DETECTION				CONVENTIONAL SYSTEMS			

## CONVENTIONAL SYSTEMS

Elkron conventional systems are ideal for applications in industrial and office buildings. A range of remarkably versatile solutions, control units able to manage 2, 4 and

20 zones, a very simple user interface, a comprehensive offer: these are the key strengths of Elkron's detection systems, which are designed to meet any type of need.





## CONVENTIONAL SYSTEMS

### C420 control unit

C420 item no. 80SC8600121

Fire detection control unit with 4 zones expandable up to 20.

- The new conventional control unit is modular and can control from 4 zones (standard configuration) up to 20 (with optional ML420 modules), to which it is possible to connect up to 512 devices. Each zone can manage up to 32 points or conventional devices, while the overall number of devices that can be managed by the control unit is 512. Each zone is associated to a relay that is activated when the zone enters an alarm condition. The control unit also features the following relay outputs: one alarm output, one siren output, one malfunction output, one programmable output for activation in case of power failure or exclusions, one supervised siren output. Four more supervised siren outputs can be added with the optional module MR420. Each of these outputs can be associated independently to one or more zones. The control unit features an alphanumeric 4x40 display and a 12-key keypad. It is also possible to connect a PS2 keypad for easier user input during the programming phase. The control unit features an event log that can store up to 1000 events.
- Certified EN54 part 2 and part 4. No.0051-CPD-0382
- Number of lines: 4 expandable up to 20
- Number of zones: 4 expandable up to 20
- Power supply: 25.5 Vdc  $\pm$  5% under no load conditions
- Alarm absorption (single consensus): 20 mA
- Alarm absorption (double consensus): 40 mA
- Supervised siren output: 24 Vdc @ 500 mA
- Field output: 24 Vdc @ 1A
- Malfunction relay output: 30 Vdc @ 1 A
- Non-volatile memory: yes
- Exclusion of single lines: yes
- Info visualisation: 40x4 LCD display
- Battery housing: 2 x 12 V @ 12 A batteries
- Material: Cover ABS - Base painted metal
- Dimensions (W x H x D): 490 x 350 x 149 mm



C420

### Accessories for C420 control unit

ML420 item no. 80SC0910121

Extension module 4 inputs/ 4 relay outputs

- Contact type: NO/NC dry contact, selectable via jumper
- Maximum applicable voltage 30 Vdc
- Maximum current 1A with resistive load

MR420 item no. 80SC0810121

Module with 4 supervised outputs

- Output voltage 24 Vdc
- 3300  $\Omega$  end-of-line resistor
- Maximum output current 250 mA
- Internal protection circuit - resettable



ML420



## CONVENTIONAL SYSTEMS

### Visual heat detector

FDOT400 item no. 80SD9U00121

Low-profile visual heat detector

- Dual-technology detectors (smoke-heat) work according to the light scattering principle caused by smoke particles present in the air (TYNDALL effect) and on temperature monitoring within the area where they are installed. A micro controller analyses and compares the signal received from a precision heat detector of the NTC type, and activates the alarm if temperature goes over 58°C. The smoke detector features an automatic gain control function; a microcontroller calculates reading compensation to keep constant sensitivity.
- Supply voltage: 20 Vdc (modulated voltage from -15% to + 10%)
- Average absorption at rest: 65 µA @ 20 Vdc
- Alarm absorption: 23 mA @ 20 Vdc
- Static alarm threshold: 58° C ± 5%
- 3-colour LED: red alarm - green normal operation - yellow maintenance required - green flashing with a sequence of yellow flashing system malfunction.
- Minimum reset time: 300 mS
- Max relative humidity: 93%
- Operating temperature: -10° ÷ +55° C
- Material: ABS V0
- Weight: 70 g
- Dimensions: ø 90 x 40 (H) mm
- Certified EN54 part 5 class A1 and part 7, No. 1293-CPD-0178



FDOT400

### Natural gas detector

FDMET400 item no. 80SD2A00121

Natural gas detector fitted with base with relay output

The FDMET400 detectors allow to signal the presence of natural gas concentrations lower than the lower explosive limit (L.E.L.), i.e. 10%, long before an explosive mixture is composed. The detector is equipped with a relay alarm output with contact exchange (NO and NC), a malfunction output with optically isolated NC contact and two terminals to connect a power absorption line for conventional control units.

- Supply voltage: 11 ÷ 29 VDC
- Absorption at rest: 60mA at 12 VDC - 30mA at 24 VDC
- Alarm absorption: 70mA at 12 VDC - 40mA at 24 VDC
- Line alarm absorption: 50mA at 24 VDC
- Delay for alarm: 20 seconds
- Delay for alarm reset: 30 seconds
- Alarm threshold for detection: 10% LEL - 0.50% in volume
- Alarm relay output: (NO-NC) 1A, 30 VDC resistive load
- Malfunction output: optically isolated NC contact 20mA, 30 VDC
- Operating temperature: 0 ÷ 40°C (max\* -15 ÷ 55°C)
- Humidity: 30 ÷ 95% (max\* 0 ÷ 95%)
- Weight: 110g
- White ABS casing
- Protection class IP30
- Dimensions Ø 90 x h 48 mm (base included)



FDMET400



## CONVENTIONAL SYSTEMS

### LPG gas detector

FDGPL400 item no. 80SD5200121

LPG gas detector fitted with base with relay output

LPG gas detector fitted with base with relay output The FDGPL400 detectors allow to signal the presence of LPG concentrations lower than the lower explosive limit (L.E.L.), i.e. 10%, long before an explosive mixture is composed. The detector is equipped with a relay alarm output with contact exchange (NO and NC), a malfunction output with optically isolated NC contact and two terminals to connect a power absorption line for conventional control units.

- Supply voltage: 11 ÷ 29 VDC
- Absorption at rest: 60mA at 12 VDC - 30mA at 24 VDC
- Alarm absorption: 70mA at 12 VDC - 40mA at 24 VDC
- Line alarm absorption: 50mA at 24 VDC
- Delay for alarm: 20 seconds
- Delay for alarm reset: 30 seconds
- Alarm threshold for detection: 10% LEL - 0.18% in volume
- Alarm relay output: (NO-NC) 1A, 30 VDC resistive load
- Malfunction output: optically isolated NC contact 20mA, 30 VDC
- Operating temperature: 0 ÷ 40°C (max\* -15 ÷ 55°C)
- Humidity: 30 ÷ 95% (max\* 0 ÷ 95%)
- Weight: 110g
- White ABS casing
- Protection class IP30
- Dimensions Ø 90 x h 48 mm (base included)



FDGPL400

### Pushbuttons

P445 item no. 80SB3500121

Conventional red glass break alarm pushbutton

- Visual alarm repetition: red LED
- Weight: 100 g
- Alarm absorption: 20 mA @ 18 Vdc
- Actuation type: breaking
- Dimensions (W x H x D): 110 x 110 x 42 mm
- Certified EN54 part 11, No. 1293-CPD-0169



P445

P440 item no. 80SB3800121

Conventional red manual reset alarm pushbutton

- Visual alarm repetition: red LED
- Weight: 100 g
- Alarm absorption: 20 mA @ 18 Vdc
- Actuation type: manual reset
- Dimensions (W x H x D): 110 x 110 x 42 mm
- Certified EN54 part 11, No. 1293-CPD-0168



P440

2570WP item no. 80SB3100123

IP67 manual reset pushbutton

- Power supply: 9 ÷ 30 Vdc
- Max current: 3 A
- Contacts: 1 exchange
- Material: ABS V0
- Operating temperature: -25°C ÷ +70°C (75% RH)
- Reset key supplied
- Protection degree: IP67
- Dimensions (W x H x D): 110 x 110 x 53 mm
- Certified EN54 part 11



2570WP



# → UNIVERSAL BASES DUCTED DETECTION



## →90 DETECTOR BASES

## →91 DUCTED DETECTION

ALPHABETIC INDEX	SALES NETWORK	ACCESSORIES	COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS	PERIMETER DETECTORS	VOLUMETRIC DETECTORS	WIRELESS SYSTEMS	HYBRID SYSTEMS
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS		EXTINGUISHING SYSTEM		DIGITAL SYSTEMS	CONVENTIONAL SYSTEMS
		WIRELESS STAND-ALONE SYSTEM		UNIVERSAL BASES FOR DUCTED DETECTION		UNIVERSAL BASES FOR DUCTED DETECTION			



## UNIVERSAL BASES

### Detector bases

SD500 item no. 80SD4K00121

Standard base for FAP500 series digital detectors and 400 series conventional detectors

- The base is compatible with all FAP500 series digital detectors and 400 series conventional detectors
- Material: ABS
- Colour: white
- Dimensions:  $\varnothing$  90 mm



SD500

SD500R item no. 80SD5K00121

Standard base with alarm repeater for FAP500 series digital detectors

- The base is compatible with all FAP500 series digital detectors, through its output it is possible to control an outdoor visual repeater directly
- Material: ABS
- Colour: white
- Dimensions:  $\varnothing$  90 mm
- Alarm repetition output: 12 mA @ 24 Vdc

SD515 item no. 80SD2V00121

Counterbase for 500 series bases

SD500RL item no. 80SD1W00121

Standard base with relay output

- The base is compatible with all 400 series conventional detectors and FAP500 series digital detectors, through its output it is possible to control an outdoor visual repeater directly (with auxiliary power unit)
- Dry contact relay output: 1 A @ 30 V
- Material: ABS
- Colour: WHITE
- Dimensions:  $\varnothing$  90 mm





## →DIGITAL SYSTEMS



- 96 FAP541 CONTROL UNIT
- 97 FAP544 CONTROL UNIT
- 97 FAP548 CONTROL UNIT
- 97 FAP5416 CONTROL UNIT
- 98 ACCESSORIES
- 100 DETECTORS

ALPHABETIC INDEX	SALES NETWORK	ACCESSORIES		COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS	PERIMETER DETECTORS	VOLUMETRIC DETECTORS	WIRELESS SYSTEMS	HYBRID SYSTEMS	AI INTRUSION DETECTION	
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS	WIRELESS STAND-ALONE SYSTEM	EXTINGUISHING SYSTEM	DIGITAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION	CONVENTIONAL SYSTEMS	FIRE DETECTION		

## DIGITAL SYSTEMS

FAP 500 is a modular, flexible digital system, EN54-approved and available in 4 control unit models, all with extension capability. The system stands out from the competition for its address teach-in functionality, available in any installation mode. In addition, the system is provided with a short circuit isolator built into all components. The FAP 500 system allows to interface easily with extinguishing systems and ensures an excellent protection level.

### High system flexibility.

FAP system relies on the most technologically advanced control units on the market: they can connect via network with other control units, interface with extinguishing systems and guarantee excellent performance and simple installation, programming and management. The system is modular, flexible and includes 4 control unit models:

- digital control unit with 1 loop (FAP 541)
- digital control unit with 2 loops expandable up to 4 (FAP 544)
- digital control unit with 4 loops expandable up to 8 (FAP 548)
- digital control unit with 8 loops expandable up to 16 (FAP 5416)

The line can be connected in 3 different ways, guaranteeing automatic device teach-in (detector, device, pushbutton, etc...)

- closed loop line
- open lines (in/out connection)
- open lines (parallel connection)

### Easy programming.

Thanks to its inherent flexibility, this system allows to meet all installation needs, making for a simple and fast setup. Each configuration type can be easily programmed via either control unit keypad or PC. All control units are prearranged for communicating on the network through a LAN TCP/IP interface, a communication port for Master/Slave functions, a printer connection port, an optically isolated RS485 port for interfacing repeating panels and extinguishing control units, a USB port for downloading data and system configuration via PC, a communication interface for transmitting events via GPRS/GSM/PSTN. Everything can be kept under control even remotely, thanks to the new software platform allowing communication between Elcron systems and remote transmission of system data.









## DIGITAL SYSTEMS

### FAP541 Control Unit

FAP541 item no. 80SC6100121

Microprocessor control unit with 1 loop line

- Configuration: 1 loop line (class A) or 2 open lines (class B)
- Possibility of managing up to 128 points per loop
- Point teach-in and point logic address
- 4 x 40 digits backlit display
- Event log: 1,000 events
- Event history shown on display
- 10 passwords programmable on 3 levels
- 480 programmable zones
- USB port for connection to local PC for programming via SW
- Possibility of monitoring detector signal/noise ratio level
- Built-in real time clock with buffer battery
- Non-volatile memory
- Alarm data saved on devices
- Monitoring of the first 10 devices entering alarm status with digital time-trend visualisation
- Control unit outputs: 4 [siren relay, alarm relay, malfunction relay, programmable relay (power failure/exclusion)]
- Internal buzzer
- Exclusion of individual point /zone
- Power supply: 230 Vac
- Maximum output current: 1.5 A@24 Vdc
- Battery charge limit and battery status check
- Battery housing: 2x 12 A @ 12 Vdc batteries
- Possibility of implementing at least 2 Km loop with 2 x 1.5 mm<sup>2</sup> screened cable
- Noise immunity up to 30 Vm
- Communication protocol shared by all system control units
- Dimensions (W x H x D): 490 x 350 x 145 mm
- Certified EN54 part 2 class and part 4, No. 0051-CPD-0240



FAP541

## DIGITAL SYSTEMS

### FAP544 Control Unit

FAP544 item no. 80SC6200121

Microprocessor based control unit with 2 loop lines expandable up to 4

- Basic configuration: 2 loop lines (class A) or 4 open lines (class B)
- Maximum configuration: 4 loop lines (class A) or 8 open lines (class B)
- Possibility of managing up to 128 points per loop
- Point teach-in and point logic address
- 240\*128 - 4.7 " backlit graphic display
- Event log: 1,000 events
- Event history shown on display
- 10 passwords programmable on 3 levels
- 480 programmable zones
- USB port for connection to local PC for programming via SW
- Possibility of monitoring detector signal/noise ratio level
- Built-in real time clock with buffer battery
- Non-volatile memory
- Alarm data saved on devices
- Monitoring of the first 10 devices entering alarm status with graphic and digital time-trend visualisation
- Control unit outputs: 4 [siren relay, alarm relay, malfunction relay, programmable relay (power failure/exclusion)]
- Internal buzzer
- Exclusion of individual point /zone
- Power supply: 230 Vac
- Maximum output current: 1.5 A @ 24 Vdc
- Battery charge limit and battery status check
- Battery housing: 2x 12 A @ 12 Vdc batteries
- Possibility of implementing at least 2 Km loop with 2 x 1.5 mm<sup>2</sup> screened cable
- Noise immunity up to 30 Vm
- Communication protocol shared by all system control units
- Dimensions (W x H x D): 490 x 350 x 145 mm
- Certified EN54 part 2 class and part 4, No. 0051-CPD-0239



FAP544

### FAP548 Control Unit

FAP548 item no. 80SC6600121

Microprocessor control unit with 4 loop lines expandable to 8

- Same as FAP544
- Certified EN54 part 2 and part 4, No. 0051-CPD-0238

### FAP5416 Control Unit

FAP5416 item no. 80SC6700121

Microprocessor control unit with 8 loop lines expandable to 16

- Same as FAP544
- Certified EN54 part 2 and part 4, No. 0051-CPD-0237

AI	FI
INTRUSION DETECTION	FIRE DETECTION
HYBRID SYSTEMS	CONVENTIONAL SYSTEMS
WIRELESS SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION
VOLUMETRIC DETECTORS	DIGITAL SYSTEMS
PERIMETER DETECTORS	EXTINGUISHING SYSTEM
OUTDOOR PROTECTIONS	WIRELESS STAND-ALONE SYSTEM
SIRENS	GAS DETECTION SPECIAL DETECTORS
COMMUNICATORS	VISUAL-ACOUSTIC INDICATORS
ACCESSORIES	
SALES NETWORK	
ALPHABETIC INDEX	

## DIGITAL SYSTEMS

### Extension module

FA128 item no. 80SC3310121  
1 loop extension module

- The extension module enables to expand the control unit by 1 loop line or 2 open lines. It is possible to connect up to 128 points (detectors, pushbuttons, interfaces). The module, to be directly installed on the control unit backplane, enables the acquisition and control of the connected devices. Connection with devices can be implemented with closed loop line or with open loop line. Configuration is made during programming.



FA128

### Accessories

FKP500 item no. 80KP5200121  
Remote Panel

- The repeating panel enables active and constant monitoring of every event. The FAP500 control unit can manage up to 16 remote panels; connection to the control unit and to other panels (if any) is made by means of RS485 optically isolated port. Panel identification address is made via on board switch. Information is displayed on backlit 4 line 40 character display. Power supply, exclusions/reactivations, alarms and malfunctions are indicated by a series of LEDs. A keypad with specific keys for commands to and from the control unit is available for the user

IO500 item no. 80SC3A00121  
Multipurpose module 1 input/ 1 output

- This digital multipurpose module with 1 input and 1 output can be used as an output module (MU), an input module for stable dry contacts (LI), or an input module for impulse contacts (PI). It allows to connect conventional detectors with dry contacts (NC/NO), probes or other devices (panels, electromagnetic stops, sirens, etc.). The module features 1 freely programmable input or output.
- Power supply:  $10 \div 24$  Vdc
- Absorption: 250 uA @ 24 Vdc
- Relay output: 1 A 30 Vdc with resistive load
- Alarm repeater output: 12 mA max, with ext. power supply 750 mA max
- Operating temperature:  $-5 \div +50^{\circ}\text{C}$
- Relative humidity: 95% non condensing
- Certified EN54 part 17 and part 18, No. 1293-CPD-0137



IO500

IO501 item no. 80SC2N00121  
Miniaturised output module

- The IO501 module is equipped with short circuit isolator and is an actuator module (MU) with dry contact output. It does not require any external power supply but it is powered directly by the detection line. A jumper present on the module allows to select the output contact, if normally open or closed. The module is equipped with an input for the supervision of the local supply voltage (24 VDC) of the equipment to control: a lack of such voltage or its undesired presence is indicated by the control unit module. Suitable for installation inside HPA700F sounder and TM24 panels.
- Certified EN54 part 17 and part 18, No. 1293-CPD-0353



IO501

IOM500 item no. 80SC3B00121  
Multipurpose module 4 inputs/ 4 outputs

- The multipurpose digital module with 4 inputs 4 outputs has the same features as the IO500 module. Programmable via control unit, it can act as an output module (MU) or input module for stable dry contacts (LI). It allows to connect conventional detectors with dry contacts (NC/NO), probes or other devices (panels, electromagnetic stops, sirens, etc.). The module has 4 inputs or 4 outputs that can be freely programmed.
- Certified EN54 part 17 and part 18, No. 1293-CPD-0220



IOM500

MC500 item no. 80SC1E10121  
Concentrator module

- The MC500 module is equipped with short circuit isolator and allows the connection of conventional detectors on FAP500 series addressed system.
- The MC500 module is equipped with:
  - Supervised conventional detection line on which it is possible to connect up to 32 detectors max.
  - Supervised sounder output on which it is possible to connect an alarm signaller directly controlled by the module that switches into alarm mode



MC500

## DIGITAL SYSTEMS

- The MC500 module can be programmed, through control unit, to operate with single or double consensus. In the first operating mode, when a detector switches to alarm condition, the module reports this to the control unit and activates automatically its sounder output; in the second mode, instead, the activation of the sounder output takes place when the second detector switches to alarm condition.
- The sounder output, when active, can be switched off or on directly by the control unit.
- For its proper operation, the module requires to be powered with an external 24 VDC source.
- Certified EN54 part 17 and part 18, No. 1293-CPD-0351

**RS232/485 item no. 80IT1410121**

- RS232/485 interface for master/slave and remote panel

**ITB500 item no. 80IT1710121**

**Bathroom pull cord interface**

- The bathroom pull cord interface can connect a button to a pull cord, present in all hotel bathrooms, and identify it with a unique address on the FAP500 series digital smoke detection system

**ITG500 item no. 80IT1810121**

**4-20 mA interface for gas detectors**

- The interface is used to connect a 4-20mA gas detector. Module operation is of multi-threshold type and alarm thresholds can be either selected via micro switches or programmed through the control unit.
- The interface can be set at alarm condition generation for excessive or insufficient gas presence.

**ML54FAP item no. 80SC1M10121**

**Area 54 line module for FAP500 control units**

This new line module allows to connect the field of an existing AREA54 system and to interface with FAP500 control units like an ordinary FA128 extension module. With this module, it is possible to replace an old AREA54 system gradually with a new one managed by the FAP500 control unit.

- Used in combination with FAP500 control units
- Mechanical dimensions same as FA128 module
- Electrical interface same as FA128 module
- Serial communication format with control unit same as FA128 module
- Controls same as FA128 module
- No FAP control unit firmware modification required for module management
- The module can be used in combination with the FA128 module
- Communication and management of another detection line of the Area54 system
- Maximum number of devices managed: 128
- 1 loop line, 2 open lines



ML54FAP

**SOFT/FAP500 item no. 80SW3500121**

**Configuration software**

- The software allows system configuration acquisition by reading the data stored on the control unit. It enables to download and program the configuration and parameters of each single device.

**MAPPE/FAP500 item no. 80SW3600121**

**Supervision software with graphic maps.**

- This software enables full network management of one or more control units. The system can be managed and controlled remotely or locally.



LAN/TCP/IP500

**LAN/TCP/IP500 item no. 80IT1510121**

**LAN/TCP/IP interface**

- It allows to connect several FAP500 control units to a LAN

**ITS500 item no. 80IT1610121**

**Printer interface**

AI	FI
INTRUSION DETECTION	FIRE DETECTION
HYBRID SYSTEMS	CONVENTIONAL SYSTEMS
WIRELESS SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION
VOLUMETRIC DETECTORS	DIGITAL SYSTEMS
PERIMETER DETECTORS	EXTINGUISHING SYSTEM
OUTDOOR PROTECTIONS	WIRELESS STAND-ALONE SYSTEM
SIRENS	GAS DETECTION SPECIAL DETECTORS
COMMUNICATORS	VISUAL-ACOUSTIC INDICATORS
ACCESSORIES	
SALES NETWORK	
ALPHABETIC INDEX	

## DIGITAL SYSTEMS

### Pushbuttons

FM500 item no. 80SB6000121

**Manual reset pushbutton, complete with teach-in circuit and short-circuit isolator**

- Fire alarm pushbuttons are used for manual alarm notification. To use the manual reset pushbutton model just press the glass in the middle in order to break it and to operate the internal switch. These pushbuttons are provided with a special tool to be used to reset the glass and open the cover. The alarm status is indicated by the switching on of a red LED
- Certified EN54 part 11 and part 17, No. 1293-CPD-0135



FM500

FMR500 item no. 80SB6100121

**Glass-break pushbutton, complete with teach-in circuit and short-circuit isolator**

- To use the glass-break push-button model just press the glass in the middle in order to push it inwards, thereby operating the switch. These pushbuttons are provided with a special tool to be used to open the cover and to replace the glass.
- The alarm status is indicated by the switching on of a red LED.
- Certified EN54 part 11 and part 17, No. 1293-CPD-0136

### Photo-optical smoke detector

FD0500 item no. 80SD4800121

**Low-profile photo-optical smoke detector, complete with teach-in circuit and short-circuit isolator**

- Smoke detectors work according to the light scattering principle caused by smoke particles present in the air. The smoke detector features an automatic gain control function; a microcontroller calculates reading compensation to keep constant sensitivity and corrects any level increase due to dust depositing into the analysis cell. Smoke detectors should be installed in places protected against draughts which may divert the flow of combustion particles and in places where the common activities performed do not cause the combustion of gases
- Supply voltage: 20 Vdc (modulated voltage from -15% to +10%)
- Average absorption at rest: 250 uA @ 20 Vdc
- Alarm absorption: 2 mA @ 20 Vdc
- Two-colour LED: red alarm - green normal operation
- Max relative humidity: 93%
- Operating temperature: 0 ÷ +50°C
- Weight: 70 g
- Dimensions: ø 90 x 31 (H) mm
- Certified EN54 part 7 and part 17, No. 1293-CPD-0138



FD0500

### Heat detector

FDT500 item no. 80SD5700121

**Low-profile heat detector, complete with teach-in circuit and short-circuit isolator**

- Heat detectors control the temperature inside the area where they are installed. A micro controller analyses and compares the signal received from a precision heat detector of the NTC type, and activates the alarm if temperature goes over 58°C
- Supply voltage: 20 Vdc (modulated voltage from -15% to + 10%)
- Average absorption at rest: 250 uA @ 20 Vdc
- Alarm absorption: 2 mA @ 20 Vdc
- Static alarm threshold: 58° C
- Two-colour LED: red alarm - green normal operation.
- Max relative humidity: 93%
- Operating temperature: 0 ÷ +50°C
- Weight: 70 g
- Dimensions: ø 90 x 40 (H) mm
- Certified EN54 part 5 and part 17, No. 1293-CPD-0140



FDT500

## DIGITAL SYSTEMS

### Differential heat detector

FDTD500 item no. 80SD9000121

Low-profile differential heat detector, complete with teach-in circuit and short-circuit isolator

- Differential heat detectors control the temperature increase inside the area where they are installed. A micro controller analyses and compares the signal received from a precision heat detector of the NTC type, and activates the alarm if temperature increases by over 5°C per minute
- Supply voltage: 20 Vdc (modulated voltage from -15% to + 10%)
- Average absorption at rest: 250 uA @ 20 Vdc
- Alarm absorption: 2 mA @ 20 Vdc
- Static alarm threshold: 58° C
- Two-colour LED: red alarm - green normal operation
- Relative humidity max: 93%
- Operating temperature: 0 ÷ +50°C
- Weight: 70 g
- Dimensions: ø 90 x 40 (H) mm
- Certified EN54 part 5 class A1R and part 17, No. 1293-CPD-0141



FDTD500

### Optical heat detector

FDOT500 item no. 80SD9K00121

Low-profile optical heat detector, complete with teach-in circuit and short-circuit isolator

- Dual-technology detectors (smoke-heat) work according to the light scattering principle caused by smoke particles present in the air (TYNDALL effect) and on temperature monitoring within the area where they are installed. A micro controller analyses and compares the signal received from a precision heat detector of the NTC type, and activates the alarm if temperature goes over 58°C. The smoke detector features an automatic gain control function; a microcontroller calculates reading compensation to keep constant sensitivity
- Supply voltage: 20 Vdc (modulated voltage from -15% to + 10%)
- Average absorption at rest: 250 uA @ 20 Vdc
- Alarm absorption: 2 mA @ 20 Vdc
- Static alarm threshold: 58°
- Two-colour LED: red alarm - green normal operation
- Max relative humidity: 93%
- Operating temperature: 0 ÷ +50°C
- Weight: 70 g
- Dimensions: ø 90 x 40 (H) mm
- Certified EN54 part 5 class A1, part 7 and part 17, No. 1293-CPD-0139



FDOT500

### Detector inspection accessories

DBS item no. 80SD9H10123

Smoke detector test bottle

AI	FI								
	INTRUSION DETECTION	FIRE DETECTION							
HYBRID SYSTEMS	WIRELESS SYSTEMS	VOLUMETRIC DETECTORS	PERIMETER DETECTORS	OUTDOOR PROTECTIONS	SIRENS	COMMUNICATORS	ACCESSORIES	SALES NETWORK	ALPHABETIC INDEX
UNIVERSAL BASES FOR DUCTED DETECTION		DIGITAL SYSTEMS	EXTINGUISHING SYSTEM	WIRELESS STAND-ALONE SYSTEM	GAS DETECTION SPECIAL DETECTORS	VISUAL-ACOUSTIC INDICATORS			



## → EXTINGUISHING SYSTEMS



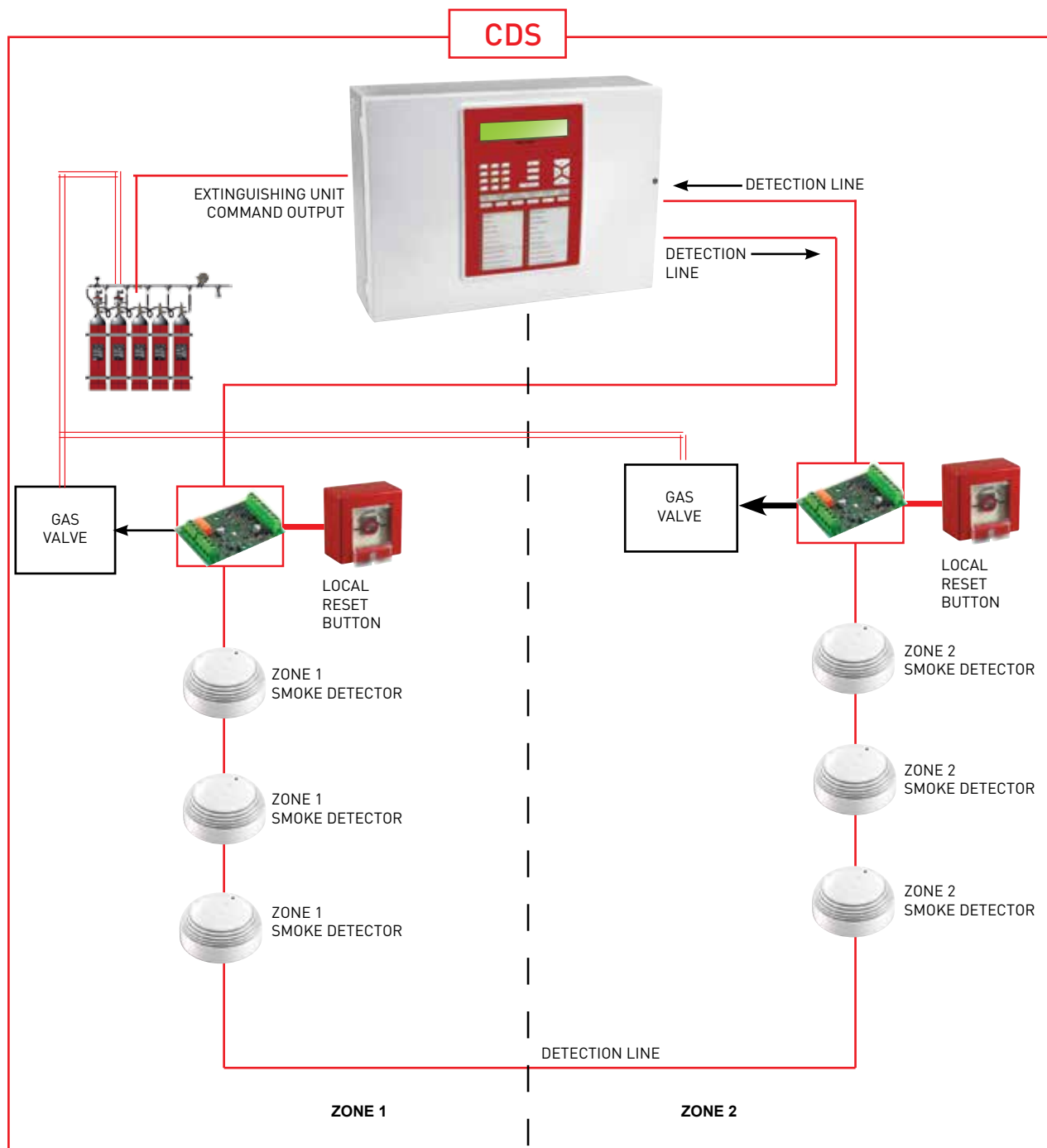


→105 CDS CONTROL UNIT

AI		FI	
INTRUSION DETECTION		FIRE DETECTION	
HYBRID SYSTEMS		CONVENTIONAL SYSTEMS	
WIRELESS SYSTEMS		UNIVERSAL BASES FOR DUCTED DETECTION	
VOLUMETRIC DETECTORS		DIGITAL SYSTEMS	
PERIMETER DETECTORS		EXTINGUISHING SYSTEM	
OUTDOOR PROTECTIONS		WIRELESS STAND-ALONE SYSTEM	
SIRENS		GAS DETECTION SPECIAL DETECTORS	
ACCESSORIES		VISUAL-ACOUSTIC INDICATORS	
SALES NETWORK		ALPHABETIC INDEX	



## EXTINGUISHING SYSTEMS



## EXTINGUISHING SYSTEMS

### CDS Control Unit

CDS item no. 80SC3600121

Extinguishing control unit with 1 loop, expandable up to 2

- The CDS extinguishing control unit is a non-expandable, 1 loop, microprocessor based control unit that manages the same devices as the FAP500 system and also incorporates an extinguishing module, preset for extension up to 2
- The ECU is fully compliant with EN 12094-1 and EN54-part 2 and part 4 European Standards. Certification number: 0051-CPD-0177

#### Extinguishing module features

- Flow switch input
- Pressure switch input
- Emergency extension input
- Manual discharge activation input
- Input for discharge activation through an external control unit
- Release "ON" relay (NO or NC contact 1A max)
- Emergency extension relay (NO or NC contact 1A max)
- Evacuation siren output (250 mA max.)
- Release output 1 (Pilot, 750 mA max)
- Release output 2 (Solenoid valve, 750 mA max)

#### Detection line features

- Configuration: 1 loop line (class A) or 2 open lines (class B)
- Possibility of managing up to 128 points per loop
- Point teach-in and point logic address
- 4 x 40 digits backlit display
- Event log: 1,000 events
- Event history shown on display
- 10 passwords programmable on 3 levels
- 480 programmable zones
- USB port for connection to local PC for programming via SW
- Possibility of monitoring detector signal/noise ratio level
- Built-in real time clock with buffer battery
- Non-volatile memory
- Control unit outputs: 4 [siren relay, alarm relay, malfunction relay, programmable relay (power failure/exclusion)]
- Internal buzzer
- Programmable alarm threshold: for zone, for individual point
- Exclusion of individual point /zone
- Power supply: 230 Vac
- Maximum output current: 1.5 A @ 24 Vdc
- Battery charge limit and battery status check
- Battery housing: 2x 12 A @ 12 Vdc batteries
- Possibility of implementing max 2 Km loop with 2 x 1.5 mm<sup>2</sup> screened cable
- Noise immunity up to 30 Vm
- Communication protocol shared by all system control units
- Dimensions (W x H x D): 490 x 350 x 145 mm

### Extension

ESPCDS item no. 80SC3510121

Extension to 1 module for extinguishing control unit.



CDS



ESPCDS

AI	FI
INFLUENCE DETECTION	FIRE DETECTION
HYBRID SYSTEMS	CONVENTIONAL SYSTEMS
WIRELESS SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION
VOLUMETRIC DETECTORS	DIGITAL SYSTEMS
PERIMETER DETECTORS	EXTINGUISHING SYSTEM
OUTDOOR PROTECTIONS	WIRELESS STAND-ALONE SYSTEM
SIRENS	GAS DETECTION SPECIAL DETECTORS
COMMUNICATORS	VISUAL-ACOUSTIC INDICATORS
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## → WIRELESS STAND-ALONE SYSTEM



→108 CONTROL UNIT

→109 ACCESSORIES

→110 DETECTORS

→112 ACTUATORS

ALPHABETIC INDEX	SALES NETWORK	ACCESSORIES		COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS	PERIMETER DETECTORS	VOLUMETRIC DETECTORS	WIRELESS SYSTEMS	HYBRID SYSTEMS	AI
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS	WIRELESS STAND-ALONE SYSTEM	EXTINGUISHING SYSTEM	DIGITAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION	CONVENTIONAL SYSTEMS	FI	
		INTRUSION DETECTION									FI

## WIRELESS STAND-ALONE SYSTEM

### Control unit

MC100 item no. 80SC0700123

#### Control unit module

- The MC100 module is a device that allows to interface a wireless fire detection system to a conventional or digital fire detection system.
- The MC100 module requires the wired connection to the control unit and the radio connection to all the field wireless devices.
- The module can be connected to the conventional detection control unit directly through the absorption line and to the FAP digital system through the MC500 module item no. 80SC1E10121.
- The radio communication between the MC100 module and its accessories occurs through bidirectional protocol. The module can be easily configured only from personal computer with "Wirelex Fire" software through RS232 serial connection.
- Distance of radio-communication with radio devices: 200 m (in free range)
- Operating frequency: 868 MHz
- Modulation frequency: FSK
- Operating frequency channels: 7
- Radiated power emitted 5 dBm: (3mW)
- Supply voltage: 9 Vdc ÷ 30 Vdc (typical 12 Vdc)
- Minimum voltage threshold for power supply malfunction signal: 9 VDC
- Applied voltage to conventional line of control unit: equal to supply voltage of the device
- Maximum voltage of alarm warning line: 27 VDC
- Maximum current consumption: 60 mA at 12 VDC (in alarm condition)
- Operating temperature: -30°C to +50°C
- Weight: 330 g
- Dimensions (with antenna): (W x H x D) 190 x 230 x 50 mm
- Dimensions (without antenna): (W x H x D) 120 x 160 x 50 mm
- Protection class: IP51C
- Software required for "Wirelex-Fire" system configuration, 5.0 revision or later
- Compliant with EN54 standard part 25 and part 18



MC100

ESPMC100 item no. 80SC3K10123

#### Add-on module

- The ESPMC100 add-on module allows expanding the radio coverage of the radio fire detection system. The ESPMC100 module is connected via radio to the module of MC100 system and, in case, to other ESPMC100 add-on modules, in order to ensure the suitable radio signal with the field sensors.
- The data communication among MC100, ESPMC100 modules and the field devices (detectors, manual push-buttons, sounders, input and output modules, etc.) occurs in radio mode through a bidirectional protocol.
- The module can be easily configured only from personal computer with "Wirelex Fire" software through RS232 serial connection. The add-on module is not powered by battery but requires an external power supply.
- Radio communication distance with MC100 central module or other ESPMC100 add-on modules: 600 m (in free range)
- Distance of radio-communication with field devices: 200 m (in free range)
- Maximum number of ESPMC100 modules that can be connected to a MC100 central unit: 7
- Operating frequency 868 MHz
- Operating channels 7
- Power emitted: 5 dBm (3mW)
- Supply voltage: 9 VDC - 30 VDC
- Minimum voltage threshold for power supply malfunction signal (main and secondary power supply): 11 VDC (± 0.5 VDC)
- Current consumption: 15 mA at 24 VDC - 30 mA at 12 VDC
- Operating temperature -30°C ÷ +50°C
- Weight 300 g
- Dimensions (with antenna): (W x H x D) 190 mm x 230 mm x 50 mm
- Dimensions (without antenna): (W x H x D) 120 x 160 x 50 mm
- Protection class: IP51C
- Compliant with EN54 standard part 25 and part 18
- Software required for "Wirelex-Fire" system configuration, 5.0 revision or later



ESPMC100

## WIRELESS STAND-ALONE SYSTEM

### Accessories

MI100 item no. 80SC3L10123

#### Input module

- The MI100 input module is a battery-operated device that transmits the status of an equipment to the fire detection central station through MC100 control unit module.
- The module has a monitored input of the ON/OFF type that must be connected to a normally-open contact and controlled by the equipment to be controlled. If the contact is closed, the wireless input module sends an alarm message to the MC100 module that reports it to the fire detection control unit connected to it.
- The module input is of the supervised type and uses a line end resistor that must be placed close and in parallel to the alarm contact on the device to check; an opening or a short-circuit of the connection line between the module input and the device contact generates a fault message from the input module towards the MC100 module and the subsequent report to the fire detection control unit.
- Alarm and fault signals can reach the MC100 module directly or through one or more ESPMC100 radio add-on modules.
- Communication between the input module and MC100 and ESPMC100 modules takes place in radio mode through a bidirectional protocol.
- Distance of radio-communication with radio devices: 200 m (in free range)
- Operating frequency: 868 MHz
- Modulation frequency: FSK
- Operating channels: 7
- Power emitted: 5 dBm (3mW) typical value
- Message transmission period 60 seconds - Preset period
- Main battery: CR123A (3 VDC) type. Battery duration: 3 years in standard working condition
- Secondary battery: CR2032 (3 VDC) type. Average duration: 2 months
- Protection class: IP65
- Preset for fairlead: 6 x M16/20
- Operating temperature: -30°C to +55°C
- compliant with EN54 standard part 25 and part 18



MI100

MU100 item no. 80SC3M10123

#### Output module

- The MU100 output module is a battery-operated device that allows activation, switching and/or deactivation of electric circuits connected to its outputs. The activation/switching command is sent by the fire detection control unit through MC100 module or ESPMC100 module.
- The output module is provided with the following outputs: 12/24 VDC output and relay output in exchange
- Communication between the input module and MC100 and ESPMC100 modules takes place in radio mode through a bidirectional protocol.
- Distance of radio-communication with radio devices: 200 m (in free range)
- Operating frequency: 868 MHz
- Modulation frequency: FSK
- Operating channels: 7
- Power emitted: 5 dBm (3mW) typical value
- Message transmission period 60 seconds - Preset period
- Main battery: CR123A (3 VDC) type. Battery duration: 3 years in standard working condition
- Secondary battery: CR123A (3 VDC) type. Average duration: 2 months
- Protection class IP65
- Preset for fairlead 6 x M16/20
- Operating temperature -30°C ÷ +55°C - Relay output only
- Operating temperature -10°C ÷ +55°C - 12/24 output set to 12 VDC
- Operating temperature 0°C ÷ +55°C - 12/24 output set to 24 VDC
- 12/24 VDC: maximum output current 12 VDC (±10%): 40 mA
- 12/24 VDC: maximum output current 24 VDC (±10%): 20 mA
- Relay output: maximum switching voltage: 30 VDC
- Relay output: maximum switching current: 2 A
- Relay output: maximum switching power: 60 W
- Terminals - wire section 0.5 ÷ 2.5 mm
- Compliant with EN54 standard part 25 and part 18



MU100

AI	FI
INFLUENCE DETECTION	FIRE DETECTION
HYBRID SYSTEMS	CONVENTIONAL SYSTEMS
WIRELESS SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION
VOLUMETRIC DETECTORS	DIGITAL SYSTEMS
PERIMETER DETECTORS	EXTINGUISHING SYSTEM
OUTDOOR PROTECTIONS	WIRELESS STAND-ALONE SYSTEM
SIRENS	GAS DETECTION SPECIAL DETECTORS
COMMUNICATORS	VISUAL-ACOUSTIC INDICATORS
ACCESSORIES	
SALES NETWORK	
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## WIRELESS STAND-ALONE SYSTEM

### Detectors

**FDO100 item no. 80SD4W00123**

**Smoke detector with base**

- The FDO100 smoke optic detector checks constantly the air in the protected area in order to promptly trigger the fire alarm if necessary and, at the same time, offer a high protection level against false alarms.
- The alarm condition occurs when the smoke level inside the optical chamber exceeds the alarm threshold; in this case an alarm message is sent to the MC100 module that reports it to the fire detection control unit connected to it.
- The alarm signal can reach the MC100 module directly or through one or more ESPMC100 add-on modules.
- The latest generation openings for smoke entry into the optical chamber ensure a very high protection level against dust penetration, increasing the interval between maintenance operations.
- The communication between the input module and MC100 and ESPMC100 modules takes place in radio mode through a bidirectional protocol.
- Distance of radio-communication with radio devices: 200 m (in free range)
- Operating frequency 868 MHz
- Modulation type FSK
- Operating channels: 7
- Power emitted 5 dBm (3mW) - typical value
- Message transmission period 60 sec - Default value
- Main battery: CR123A (3 VDC) type. Battery duration: 3 years in standard working condition
- Secondary battery: CR123A (3 VDC) type. Average duration: 2 months
- Dimensions 110 mm x 65 mm - Mounting base included
- Weight 130 g - Mounting base included
- Protection class IP21C
- Maximum humidity 95% RH - Non condensing
- Operating temperature -10°C ÷ +55°C
- Compliant with EN54 standard part 7 and part 25



FDO100

**FDOT100 item no. 80SD5W00123**

**Optical heat detector with base**

- The FDOT100 optical heat detector analyses air and temperature in the protected area in order to promptly trigger the fire alarm if necessary and, at the same time, offer a high protection level against false alarms. The alarm condition occurs when:
  - the smoke quantity in the optical chamber exceeds the alarm threshold
  - the temperature or the thermal variation within a certain time frame exceeds the alarm threshold.
- In one of these conditions, an alarm message is sent to the MC100 module which reports it to the fire detection control unit connected to it.
- The alarm signal can reach the MC100 module directly or through one or more ESPMC100 add-on modules.
- The latest generation openings for smoke entry into the optical chamber ensure a very high protection level against dust penetration, increasing the interval between maintenance operations.
- The communication between the input module and MC100 and ESPMC100 modules takes place in radio mode through a bidirectional protocol.
- Distance of radio-communication with radio devices: 200 m (in free range)
- Operating frequency 868 MHz
- Modulation type FSK
- Operating channels: 7
- Power emitted 5 dBm (3mW) - typical value
- Message transmission period 60 sec - Default value
- Main battery: CR123A (3 VDC) type. Battery duration: 3 years in standard working condition
- Secondary battery: CR123A (3 VDC) type. Average duration: 2 months
- Dimensions 110 mm x 65 mm - Mounting base included
- Weight 130 g - Mounting base included
- Protection class IP21C
- Maximum humidity 95% RH - Non condensing
- Operating temperature -10°C ÷ +55°C
- Compliant with EN54 standard part 7, part 5 and part 25



FDOT100



## WIRELESS STAND-ALONE SYSTEM

### Detectors

FDT100 item no. 80SD6W00123

Heat detector with base

- The FDT100 heat detector detects the temperature in the protected area to promptly trigger the fire alarm and, at the same time, offers a high protection level against false alarms. The alarm condition occurs when the temperature or the thermal variation within a certain time frame exceeds the alarm threshold.
- In one of these conditions, an alarm message is sent to the MC100 module which reports it to the fire detection control unit connected to it.
- The alarm signal can reach the MC100 module directly or through one or more ESPMC100 add-on modules.
- The communication between the input module and MC100 and ESPMC100 modules takes place in radio mode through a bidirectional protocol.
- Distance of radio-communication with radio devices: 200 m (in free range)
- Operating frequency 868 MHz
- Modulation type FSK
- Operating channels: 7
- Power emitted 5 dBm (3mW) - typical value
- Message transmission period 60 sec - Default value
- Main battery: CR123A (3 VDC) type. Battery duration: 3 years in standard working condition
- Secondary battery: CR123A (3 VDC) type. Average duration: 2 months
- Dimensions 110 mm x 65 mm - Mounting base included
- Weight 130 g - Mounting base included
- Protection class IP21C
- Maximum humidity 95% RH - Non condensing
- Operating temperature -10°C ÷ +55°C
- Compliant with EN54 standard part 5 and part 25



FDT100

PA100 item no. 80SB3200123

Reset push-button

- The PA100 reset push-button is a device that allows to trigger an alarm condition through a pressure on the front on the device. The pressure produces the transmission of an alarm message to the MC100 module that reports it to the fire detection control unit connected to it.
- The alarm signal can reach the MC100 module directly or through one or more ESPMC100 add-on modules.
- The communication between the input module and MC100 and ESPMC100 modules takes place in radio mode through a bidirectional protocol.
- The manual push-button is of resettable type and after its activation can be reset by simply using the proper key supplied.
- Distance of radio-communication with radio devices: 200 m (in free range)
- Operating frequency 868 MHz
- Modulation type FSK
- Operating channels: 7
- Power emitted 5 dBm (3mW) - typical value
- Main battery: CR123A (3 VDC) type. Battery duration: 3 years in standard working condition
- Secondary battery: CR123A (3 VDC) type. Average duration: 2 months
- Voltage range approved 2.75 VDC ÷ 3.20 VDC
- Dimensions (W x H x D): 86 mm x 86 mm x 59 mm
- Weight 186 g - Without battery
- Operating temperature -10°C ÷ +55°C
- Compliant with EN54 standard part 11 and part 25



PA100

AI	FI
INTRUSION DETECTION	FIRE DETECTION
HYBRID SYSTEMS	CONVENTIONAL SYSTEMS
WIRELESS SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION
VOLUMETRIC DETECTORS	DIGITAL SYSTEMS
PERIMETER DETECTORS	EXTINGUISHING SYSTEM
OUTDOOR PROTECTIONS	WIRELESS STAND-ALONE SYSTEM
SIRENS	GAS DETECTION SPECIAL DETECTORS
COMMUNICATORS	VISUAL-ACOUSTIC INDICATORS
ACCESSORIES	
SALES NETWORK	
ALPHABETIC INDEX	



### WIRELESS STAND-ALONE SYSTEM

#### Actuators

HPF100 item no. 80HS2300123

Loudspeaker sounder

- The HPF100 sounder is a sound-emitting device that is activated by the central station in case of a fire. The activation signal provided by the control unit passes through the MC100 module and, if present, through ESPMC100 add-on modules that ensure the wireless coverage of the system.
- The communication between the input module and MC100 and ESPMC100 modules takes place in radio mode through a bidirectional protocol.
- The sounder has three sound tonalities: the installer can programme, during installation phase, both the desired tonality and the desired volume.
- Distance of radio-communication with radio devices: 200 m (in free range)
- Operating frequency: 868 MHz
- Modulation type FSK
- Operating channels: 7
- Main and secondary battery CR123A (3VDC) type - Duration 3 years in standard working conditions
- Voltage variation approved  $2.75 \div 3.20$  VDC
- Current in alarm condition: 70mA
- Operating temperature:  $-10^{\circ}\text{C} \div +55^{\circ}\text{C}$
- Maximum humidity: 95% RH - Non condensing
- Protection class: IP21C
- Generated sound intensity (adjustable): Maximum sound intensity between 78dB and 94dB according to the angle and the selected tonality
- Compliant with EN54 standard part 3 and part 25



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HPF100

## WIRELESS STAND-ALONE SYSTEM

### Actuators

HPFL100 item no. 80HS2400123

#### Flashing light

- The HPFL100 flashing light is an output device that, activated by the fire detection central unit, blinks in case of an alarm or in emergency conditions. The activation signal provided by the control unit passes through the MC100 module and, if present, through ESPMC100 add-on modules that ensure the wireless coverage of the system.
- The communication between the input module and MC100 and ESPMC100 modules takes place in radio mode through a bidirectional protocol.
- Distance of radio-communication with radio devices: 200 m (in free range)
- Operating frequency: 868 MHz
- Modulation type FSK
- Operating channels: 7
- Power emitted 5 dBm (3mW) - typical value
- Main battery: CR123A (3 VDC) type. Battery duration: 3 years in standard working condition
- Secondary battery: CR123A (3 VDC) type. Average duration: 2 months
- Minimum consumption in alarm mode at 24VDC (0.5 Cd with 1 Hz blinking) 3mA
- Maximum consumption in alarm mode at 24VDC (1 Cd and 0.5 Hz blinking) 6mA
- Light intensity (user-selectable): 0.5 / 1 Cd
- Blinking frequency (user-selectable): 0.5 / 1 Hz
- Dimensions (W x H x D): 93 mm x 53 mm - Mounting base included
- Weight: 110 g - Mounting base included
- Protection class: IP21C
- Tolerated humidity range: 5% ÷ 95% RH - Non condensing
- Operating temperature: -10°C ÷ +55°C
- Compliant with EN54 standard part 25



HPFL100

ALPHABETIC INDEX	SALES NETWORK	AI		FI											
		INTRUSION DETECTION		FIRE DETECTION											
		HYBRID SYSTEMS		CONVENTIONAL SYSTEMS											
		WIRELESS SYSTEMS		VOLUMETRIC DETECTORS		PERIMETER DETECTORS		OUTDOOR PROTECTIONS		SIRENS		COMMUNICATORS		ACCESSORIES	
		UNIVERSAL BASES FOR DUCTED DETECTION		DIGITAL SYSTEMS		EXTINGUISHING SYSTEM		WIRELESS STAND-ALONE SYSTEM		GAS DETECTION SPECIAL DETECTORS		VISUAL-ACOUSTIC INDICATORS			



## → GAS DETECTION SPECIAL DETECTORS



- 116 GAS DETECTION CONTROL UNITS
- 117 TOXIC AND EXPLOSIVE GAS DETECTORS
- 120 LIQUID DETECTOR
- 120 SPECIAL HEAT DETECTORS
- 121 INTAKE SMOKE DETECTORS
- 122 LINEAR DETECTORS

ALPHABETIC INDEX	SALES NETWORK	AI INTRUSION DETECTION												FI FIRE DETECTION	
		ACCESSORIES		COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS		PERIMETER DETECTORS		VOLUMETRIC DETECTORS		WIRELESS SYSTEMS		HYBRID SYSTEMS	
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS		WIRELESS STAND-ALONE SYSTEM		EXTINGUISHING SYSTEM		DIGITAL SYSTEMS		UNIVERSAL BASES FOR DUCTED DETECTION		CONVENTIONAL SYSTEMS	



## **GAS DETECTION**

### **Gas detection control units**

**ST/PL4 item no. 80SC6R00123\*\***

Gas detection control unit allowing connection of 4 up to 8 flammable toxic gases or oxygen detectors (through optional board) with 4-20 mA proportional output

- For each input it is possible to set the type of detector, suitable measure range and alarm level values
- Concentration values measured are shown on a backlit liquid crystal display
- The control unit has 4 relay outputs, associated to: Malfunction, Alarm 1, Alarm 2, Alarm 3 + 1 auxiliary output that can be associated to one of the four statuses above
- By adding an optional module, in addition to the 4 inputs it is possible to implement 16 open collector outputs
- Housing: metal casing
- Dimensions (H x W x D): 225x360x110 mm
- Display: 16 character 2 line backlit LCD
- Power supply: 230 Vac
- Absorption: 80 mA at rest, 160 mA in alarm status, 240 mA with extension board
- Relay outputs: 1 A @ 24 Vdc, 5 A @ 24 Vdc (AUX relay)
- Relative temperature: 0° ÷ +40°C
- Relative humidity: 15-85% non condensing



ST/PL4

**ST/PL4/ESP item no. 80SC7R10123\*\***

Extension module for 4 inputs, 16 O.C. outputs programmable for Alarm 2 or Alarm 3 for ST/PL4 control unit

- O.C. outputs: 250 mA

**STG/MTSLB item no. 80SC8R00123\*\***

Gas detection control unit allowing the connection of 8 up to 104 flammable toxic gases or oxygen detectors with 4-20 mA proportional output

- The connection is through (optional) remote concentrators on RS485 serial line.
- The control unit is equipped with 4 output relays to interface to field and 4 open collector outputs
- The unit can be configured with detectors that feature different detected gases and activation thresholds
- Both explosive and toxic gas detectors can be configured
- The control unit can store up to 800 events
- Housing: metal casing
- Dimensions (H x W x D): 420 x 440 x 140 mm
- Display: backlit 256 x 64 dot LCD
- Power supply: 230 Vac
- Extension: Up to 64 O.C. outputs with 8 STG/OUT16 optional modules
- Relative temperature: 0° ÷ +40°C
- Relative humidity: 15-85% non condensing



STG/MTSLB

\*\*available upon order

## GAS DETECTION

### Accessories

STG/IN8 item no. 80SC9R10123\*\*

Remote module for 8 board inputs.

STG/OUT16 item no. 80SC1S10123\*\*

Remote module for 16 open collector programmable board outputs.

STG/BOX item no. 80ST0510123\*\*

Metal casing for STG/IN8 or STG/OUT16 modules.

ST/S3REL item no. 80SC5R10123\*\*

Three-relay board for gas detectors

- It allows to have dry contacts
- The first output is associated to malfunction or Watch-Dog
- The second output can be associated to either alarm 1 or alarm 2 of detector
- The second output can be associated to either alarm 2 or alarm 3 of detector
- Relay contact capacity: 50mA @ 24 Vdc; 100 mA @ 12 Vdc

### Toxic and explosive gas detectors

Gas detectors are used to detect the presence of combustible substances in concentrations that can be expressed as a percentage of Lower Explosive Limit (%LEL) and of toxic substances that can be expressed as parts per million (ppm) or to detect oxygen deficiency or excess. For explosive mixture detectors a catalytic sensor is used, while for toxic substance detectors an electrochemical cell sensor is used.

The detector is fully controlled by a 10 bit microprocessor. The detectors provide either a current proportional output (4-20 mA) or relay contacts through an optional board

### EX II 3GD gas detectors

S2396VB item no. 80SD2T00123\*\*

Petrol vapour detector 4-20 mA, 0-100% LEL

- Catalytic sensor: Nemoto
- Absorption: 130 mA @ 12 Vdc

S1450C0 item no. 80SD7T00123\*\*

CO (Carbon Monoxide) detector 4-20 mA, 0-300 ppm

- Electrochemical cell sensor
- Absorption: 30 mA @ 12 Vdc



EX II 3GD

\*\*available upon order



## GAS DETECTION

### EX II 3GD gas detectors

S2096ME item no. 80SD9S00123\*\*

Natural gas detector 4-20 mA, 0-100% LEL

→ Sensore catalitico: Nemoto

→ Assorbimento: 130 mA @ 12 Vcc

S2096GP item no. 80SD4T00123\*\*

Rilevatore di gas gpl 4-20 mA, 0-100% LIE

→ Sensore catalitico: Nemoto

→ Assorbimento: 130 mA @ 12 Vcc



EX II 3GD

MAIN FEATURES OF GAS DETECTORS (EX II 3GD)	
Power supply	12 – 24Vdc – 20% + 15%
Auto-zero routine	Zero drift compensation
Light indications	Blinking LED
Precision	± 10% full scale
Warm-up time	5 minutes
Stabilisation time	< 2 minutes
Response time	< 15 sec. T50; < 25 sec T90 (flammable gas version)
Air velocity	< 6 mS
Digital filter	Sampled values variable averages
Resolution	1.024 dots
Protection degree	IP55
Weight	350 g
Dimensions (W x H x D) mm	106 x 170 x 65
Reference Standards	EN50014 EN50018 EN50021 (essential safety requirements EEx-n) / EN61779-1/4 (performance)
Atex marking	CE 722 Ex II 3GD Ex nA d IIC T6 IP55 T85°C

For other gas detector types please contact customer service

\*\*available upon order



## GAS DETECTION

### EX II 2GD gas detectors

S2097VB item no. 80SD1U00123\*\*

Petrol vapour detector 4-20 mA, 0-100% LEL

→ Catalytic sensor: Nemoto

→ Absorption: 130 mA @ 12 Vdc

S2097ME item no. 80SD9T00123\*\*

Natural gas detector 4-20 mA, 0-100% LEL

→ Catalytic sensor: Nemoto

→ Absorption: 130 mA @ 12 Vdc

S2131CO item no. 80SD5U00123\*\*

CO (Carbon Monoxide) detector 4-20 mA, 0-500 ppm

→ Electrochemical cell sensor

→ Absorption: 30 mA @ 12 Vdc

S2097GP item no. 80SD2U00123\*\*

LPG gas detector 4-20 mA, 0-100% LEL

→ Catalytic sensor: Nemoto

→ Absorption: 130 mA @ 12 Vdc



EX II 2GD

MAIN FEATURES OF GAS DETECTORS (EX II 2GD)	
Power supply	12 – 24Vcc – 20% + 15%
Auto-zero routine	Zero drift compensation
Light indications	Blinking LED
Precision	± 10% full scale
Warm-up time	5 minutes
Stabilisation time	< 2 minutes
Response time	< 15 sec. T50; < 25 sec T90 (flammable gas version)
Air velocity	< 6 mS
Digital filter	Sampled values variable averages
Resolution	1.024 dots
Protection degree	IP66
Weight	950 g
Dimensions (W x H x D) mm	110 x 135 x 80
Reference Standards	EN50014 EN50018 EN50021 (essential safety requirements EEx-n) / EN61779-1/4 (performance)
Atex marking	CE 722 Ex II 2GD Ex d IIC Ex tD A21 IP65 T85°C

For other gas detector types please contact customer service

\*\*available upon order



## **SPECIAL DETECTORS**

### **Non-flammable liquid detector**

RA/209 item no. 80SD2B00121

Electronic detector to detect the presence of (non-flammable) liquids

- Water presence is detected by 4 golden support feet, which trigger the alarm by switching a relay inside the detector
- For improved security, the RA/209 model is equipped with an adjustable humidity detector with built-in trimmer
- Supports connection of up to 10 external probes model RA/209S item no. SD7L00121
- Casing: white thermoplastic material
- Operating voltage: from 12 to 27 Vdc
- Average absorption: 3,5 mA at 27 Vdc
- Operating temperature: +5°C/50°C
- Dimensions (W x H x D): 64 x 96 x 30 mm



RA/209

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### **Heat detectors**

RLB/1 item no. 80SD6P00121\*\*

Linear heat detector, 68°C calibration (certified)

- Packaging: 100 m reel

RLB/2 item no. 80SD5P00121\*\*

Linear heat detector, 105°C calibration (certified)

- Packaging: 100 m reel

\*\*available upon order

## SPECIAL DETECTORS

### Intake smoke detector

XCC-011 item no. 80SD9W00123

- The intake smoke detector takes actively the air from the protected area through a piping network on which sampling holes are made. A part of the air taken is filtered and carried to the high-sensitivity Laser detection chamber. According to the actual smoke concentration in the sample, fire alarms are generated and sent to the management and control system through digital outputs (SPST relay). A flow sensor is placed at the detector input for the integrity check of the sampling pipe, generating the device fault warning if the sampling holes are occluded or an intake pipe is broken.
- The detector is equipped with a high-sensitivity Laser chamber able to promptly detect the presence of smoke and is suitable to protect areas up to 1600 sq. m. A maximum of 18 holes can be made on the sampling pipeline, each of them has an equivalent sensitivity to class C according to EN54-20 (entirely comparable to a punctiform detector). The detector provides two alarm levels (Pre-alarm and Alarm) through SPST type voltage-free relay outputs and a SPDT type relay output for machine fault signalling.
- The front part of the detector is equipped with state LEDs such as Alarm, Pre-Alarm, fault, system OK and a push-button to reset or disable the device.



XCC-011

#### Technical features

- 1 alarm area - 1 channel - max 18 holes
- Maximum coverage: 1600 sq. m
- 1 pipeline 1x110 m or 2x80 m
- Cartridge two-stage filter. External filter option
- Intake air flow control
- LED display (5 LEDs)
- 24VDC power supply
- Max absorption 245 mA
- Dimensions (W x H x D): 224 x 225 x 85mm
- Alarm thresholds: Can be configured from I to IV depending on the pre-engineered sampling network according to the installation manual
- Relay digital outputs:
  - 1 malfunction relay
  - 2 alarm relays with configurable Pre-alarm and Alarm threshold
- Pipeline: 3/4" standard or 25 mm in ABS plastic material
- Protection class: IP30
- Operating temperature: -10° ÷ +55°C
- Operating humidity: 10 ÷ 95%NC
- Certification: LPCB - CPD EN54-20 - CE EMC - Sensitivity EN54-20 class C

NOTE: for intake system accessories (pipes, couplings, elbow pipes, glue, etc.) please contact the customer service (+39 011 3986711)

AI	INTRUSION DETECTION		FI		FIRE DETECTION	
	HYBRID SYSTEMS	WIRELESS SYSTEMS	VOLUMETRIC DETECTORS	PERIMETER DETECTORS	OUTDOOR PROTECTIONS	SIRENS
ALPHABETIC INDEX	ACCESSORIES	COMMUNICATORS	GAS DETECTION SPECIAL DETECTORS	EXTINGUISHING SYSTEM	WIRELESS STAND-ALONE SYSTEM	VISUAL-ACOUSTIC INDICATORS
SALES NETWORK						



## SPECIAL DETECTORS

### Linear smoke detectors

FL100 item no. 80IL7800121

Tx + Rx smoke linear detector, max. range 150 m

- FL100 smoke linear detector is mainly suitable for office building applications.
- Its operating principle is based on the interaction between the smoke present inside a room originated by an incipient fire and an infrared emitted by a transmission unit (Tx) and received and duly processed by a receiving unit (Rx). In particular, the Rx receiver processes an electric signal proportionally to the received light intensity, through the notification of an alarm or fault condition if the signal drops continuously below an alarm or fault threshold for a pre-set time period.
- The detector is equipped with three LED indicators and two 7-segment displays to report various information to the installer/operator.
- It also features a fault relay and 2 relays signalling the pre-alarm and alarm condition; the device features the connection to a standard fire detection line to signal the alarm condition to the control unit.
- Supply voltage: 10.8 ÷ 26.8 Vdc
- Consumption in stand-by mode at 24 Vdc: 55mA
- Consumption in stand-by mode at 12 Vdc: 45mA
- Consumption in alarm conditions at 24 Vdc: 60mA
- Consumption in alarm conditions at 12 Vdc: 50mA
- Consumption in fault conditions at 24 Vdc: 45mA
- Consumption in fault conditions at 12 Vdc: 40mA
- Pre-alarm shading thresholds: 20%, 25%, 30%, 35%
- Alarm shading threshold: 35%
- Minimum operating distance: 5 metres
- Maximum operating distance: 150 metres
- Transmitter beam wavelength: 890 nm
- Beam misalignment tolerance:  $\pm 1^\circ$
- 1A pre-alarm relay, 30 Vdc resistive load - NO/NC contact to be selected through jumper
- 1A alarm relay, 30 Vdc resistive load - NO/NC contact to be selected through jumper
- 1A malfunction relay, 30 Vdc resistive load - NO/NC contact to be selected through jumper
- Conventional line - input voltage range: 10 ÷ 20Vdc
- Conventional line - absorption in pre-alarm conditions: 20mA at 20Vdc
- Conventional line - absorption in alarm conditions: 40mA at 20Vdc
- Conventional line - reset pulse duration: 200mS
- Operating temperature range:  $(-10 \pm 3)^\circ\text{C} \div (55 \pm 2)^\circ\text{C}$
- Relative humidity:  $(93 \pm 3)\%$
- Protection class: IP55
- Dimensions (W X H X D): 248 x 122 x 120 mm
- Weight: 900g
- Certified in compliance with EN54 part 12, No. 1293-CPR-0406



FL100

## SPECIAL DETECTORS

### Linear smoke detectors

FLR100 item no. 80IL7900121

Reflection smoke linear detector, max. range 100 m

- The FL100 smoke linear detector is mainly suitable for cultural assets, such as: museums, churches, historical buildings, art exhibitions, etc.
- Its operating principle is based on the interaction between the smoke present inside a room originated by an incipient fire and an infrared beam emitted by a special optical reflector. In particular, the Rx receiver processes an electric signal proportionally to the received light intensity, through the notification of an alarm or fault condition if the signal drops continuously below an alarm or fault threshold for a pre-set time period.
- The detector is equipped with three LED indicators and two 7-segment displays to report various information to the installer/operator.
- It also features a fault relay and 2 relays signalling the pre-alarm and alarm condition; the device features the connection to a standard fire detection line to signal the alarm condition to the control unit.
- Supply voltage: 10.8 ÷ 26.8 Vdc
- Consumption in stand-by mode at 24 Vdc: 55mA
- Consumption in stand-by mode at 12 Vdc: 45mA
- Consumption in alarm conditions at 24 Vdc: 50mA
- Consumption in alarm conditions at 12 Vdc: 40mA
- Consumption in fault conditions at 24 Vdc: 35mA
- Consumption in fault conditions at 12 Vdc: 30mA
- Pre-alarm shading thresholds: 20%, 25%, 30%, 35%
- Alarm shading threshold: 35%
- Minimum operating distance: 5 metres
- Maximum operating distance: 100 metres
- Transmitter beam wavelength: 890 nm
- Beam misalignment tolerance: ±1°
- 1A pre-alarm relay, 30 Vdc resistive load - NO/NC contact to be selected through jumper
- 1A alarm relay, 30 Vdc resistive load - NO/NC contact to be selected through jumper
- 1A malfunction relay, 30 Vdc resistive load - NO/NC contact to be selected through jumper
- Conventional line - input voltage range: 10 ÷ 20Vdc
- Conventional line - absorption in pre-alarm conditions: 20mA at 20Vdc
- Conventional line - absorption in alarm conditions: 40mA at 20Vdc
- Conventional line - reset pulse duration: 200mS
- Operating temperature range: (-10 ± 3)°C ÷ (55 ± 2)°C
- Relative humidity: (93 ± 3)%
- Protection class: IP55
- Dimensions: 248(L) x 122(H) x 120(D) mm
- Weight: 900g
- Certified in compliance with EN54 part 12, No. 1293-CPR-0407



FLR100

RIFLE20 item no. 80IL8000121

Reflector max. range 20 m

- Dimensions: 10 x 10 cm

RIFLE50 item no. 80IL8100121

Reflector max. range 50 m

- Dimensions: 20 x 20 cm

RIFLE100 item no. 80IL8200121

Reflector max. range 100 m

- Dimensions: 30 x 30 cm

AI	FI
INFLUENCE DETECTION	FIRE DETECTION
HYBRID SYSTEMS	CONVENTIONAL SYSTEMS
WIRELESS SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION
VOLUMETRIC DETECTORS	DIGITAL SYSTEMS
PERIMETER DETECTORS	EXTINGUISHING SYSTEM
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SIRENS	GAS DETECTION SPECIAL DETECTORS
COMMUNICATORS	VISUAL-ACOUSTIC INDICATORS
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		ACCESSORIES	COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS	PERIMETER DETECTORS	VOLUMETRIC DETECTORS		WIRELESS SYSTEMS	HYBRID SYSTEMS			
							DIGITAL SYSTEMS					UNIVERSAL BASES FOR DUCTED DETECTION	CONVENTIONAL SYSTEMS
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS		WIRELESS STAND-ALONE SYSTEM		EXTINGUISHING SYSTEM					



## VISUAL-ACOUSTIC INDICATORS

### Visual acoustic panels

TM24A item no. 80FH3600121

Single-side visual acoustic panel

- Power supply : 12 – 24 Vdc
- Max consumption: 100 mA
- Lighting by high-efficiency LEDs
- Buzzer sound pressure: 85 dB @ 1 m
- Steady/flashing light, selectable
- Continuous/intermittent sound, selectable
- Protection against polarity inversion
- Operating temperature: -10°C ÷ +50°C
- Material: self-extinguishing ABS, class V0
- Protection degree: IP40
- The following pictograms are supplied as standard: Fire alarm
- Certified EN54 part 3: No- DOP 0051-CPR-0445



TM24A

TB24 item no. 80FH2700121

Visual/acoustic double-side panel

- Power supply : 12 – 24 Vdc
- Max consumption: 100 mA
- Lighting by high-efficiency LEDs
- Buzzer sound pressure: 85 dB @ 1 m
- Steady/flashing light, selectable
- Continuous/intermittent sound, selectable
- Protection against polarity inversion
- Operating temperature: -10°C ÷ +50°C
- Material: self-extinguishing ABS, class V0
- Protection degree: IP40
- The following pictograms are supplied as standard: Fire alarm, Evacuate the premises, Extinguishing in progress, Gas alarm



TB24

SPTB item no. 80SF5000121

Bracket for visual/acoustic double-side panel TB24

TM220 item no. 80FH2800121

Self-powered single-side visual acoustic panel 230 Vac

- Power supply: 230 Vac
- Max consumption: 100 mA
- Lighting by high-efficiency LEDs
- Buzzer sound pressure: 85 dB @ 1 m
- Steady/flashing light, selectable
- Continuous/intermittent sound, selectable
- Protection against polarity inversion
- Buffer battery: 3.6 V 1.5Ah Ni-Cd
- Battery life in alarm condition: 1 hour
- Operating temperature: -10°C ÷ +50°C
- Material: self-extinguishing ABS, class V0
- Protection degree: IP40
- The following pictograms are supplied as standard: Fire alarm, Evacuate the premises, Extinguishing in progress, Gas alarm



TM220



## VISUAL-ACOUSTIC INDICATORS

### Visual acoustic panels

TM24I item no. 80FH4700121

Optic-acoustic panel addressed to loop

- Operating voltage: 20Vdc (-15%, +10%) modulated – detection line
- Absorption at rest: 250 micro A at 20Vdc
- Alarm absorption: 2.5 mA at 20Vdc
- Sound power from 1 m: 78 dB
- Integrated insulating module
- Selectable acoustic tones
- Selectable acoustic emission volume
- Configuration from control unit or through dip-switch
- Dimensions (W x H x D): 360 x 150 x 70 mm
- Certified EN54 part 3: No. DOP 0051-CPR-0469



TM24I

5965 item no. 80FH6500123

Visual and acoustic signalling device

- Device suitable for installation on surface
- Power supply: 24 Vdc
- Absorption: 130 mA
- Sound power at 1 m: 70dB
- Continuous or pulsing sound (1Hz)
- Flasher: selectable 0.2 s ON – 1.1 s OFF
- Protection from power supply inversion
- 1.5 mm terminals
- Fuse for power supply line protection
- Dimensions (W x H x D): 365 x 170 x 72 mm
- Certified EN54 part 3 and part 23



5965

5955 item no. 80FH6000121

IP54C visual acoustic panel

- Power supply: 10.8 – 28Vdc
- Max consumption: 100 max @ 24 V
- Lighting by high brightness lamp (Steady/flashing light)
- Protection degree: IP54
- Connection mode: terminals
- Sound pressure: 100 dB at 1 m
- Fixed or pulse sound
- Pictograms: FIRE ALARM
- Weight: 0.9 Kg
- Dimensions (W x H x D): 365 x 147 x 50 mm
- Certified EN 54-3



5955

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		ACCESSORIES	COMMUNICATORS	SIRENS	OUTDOOR PROTECTIONS	PERIMETER DETECTORS	VOLUMETRIC DETECTORS	WIRELESS SYSTEMS	HYBRID SYSTEMS	CONVENTIONAL SYSTEMS
		VISUAL-ACOUSTIC INDICATORS		GAS DETECTION SPECIAL DETECTORS	WIRELESS STAND-ALONE SYSTEM	EXTINGUISHING SYSTEM	DIGITAL SYSTEMS	UNIVERSAL BASES FOR DUCTED DETECTION		



## VISUAL-ACOUSTIC INDICATORS

### Sirens

4476/24 item no. 80HS7300123

**Bell for IP42 fire detection systems**

- The built-in motor, pinion and striker together with the external steel bell make for a powerful sound with a low energy consumption
- Power supply: 24 Vdc
- Average absorption: 25 mA
- Sound pressure at 1 metre distance: 93/95 dB
- Operating temperature:  $-10^{\circ}\text{C} \div +50^{\circ}\text{C}$
- Protection degree: IP42



4476/24

4460/24 item no. 80HS1700123

**Electronic siren for fire detection systems**

- Electronic siren characterised by a sleek design and cutting-edge technology, fully coated with a polyurethane resin for maximum protection and resistance.
- Maximum control of sound signal through 28 tones that can be selected during installation by 5 internal dip-switches and through volume control by trimmer.
- Simple installation thanks to the siren bayonet joint on siren base and double pins allowing to shunt connections
- Casing material: Thermoplastic body, red colour
- Power supply: 24 Vdc
- Average absorption: 16 mA
- Sound pressure at 1 metre distance: 102 dB
- Operating temperature:  $-20^{\circ}\text{C} \div +60^{\circ}\text{C}$
- Protection degree: IP54



4460/24

4479/24 item no. 80HS7200123

**Electronic bell for IP55 fire detection systems**

- Electronic bell characterised by a sleek design and cutting-edge technology for fire detection systems and other warnings
- It combines a miniaturised solenoid with a built-in control circuit, for excellent acoustic performance, minimum current consumption and high reliability
- Easy to install thanks to double power supply terminals and snap-on casing
- With IP55 protection degree, suitable for both indoor and outdoor installation
- Power supply: 24 Vdc
- Average absorption: 30 mA
- Operating temperature:  $-10^{\circ}\text{C} \div +55^{\circ}\text{C}$
- Sound pressure at 1 metre distance: 93/95 dB
- Protection degree: IP55



4479/24

HPA100F item no. 80HP9500111

**Supplementary indoor siren**

- Sound frequency: 2800 - 3200 Hz
- Sound pressure: 100 dB @ 1 m
- Colour: red
- Protection against polarity inversion
- Power supply: 12 - 24 Vdc
- Absorption: 140 mA
- Dimensions (W x H x D): 140 x 105 x 40 mm



HPA100F

## VISUAL-ACOUSTIC INDICATORS

### Sirens

HPA700F item no. 80HS5100121

Self-powered outdoor siren

- Sound block at first start up
- Rated supply voltage: 24 Vdc
- Minimum operating voltage: 18 Vdc
- Maximum operating voltage: 30 Vdc
- Absorption at rest: 24 mA typical
- Battery recharging max. absorption: 650 mA
- Alarm absorption: 1 A at rated voltage
- Incandescent light bulb power: 10 W
- Protection degree of casing certified (IEC 70.1 ): I P33
- Protection degree of casing declared by manufacturer: IP43
- IK Mechanical impact resistance degree (IEC 70.3): IK08
- Operating frequency: 2400+2800 Hz
- Battery: 12V 1.9Ah, 12V 2Ah, 12V 2.1Ah
- Certified operating temperature: -25°C ÷ +70°C
- End of line control relay contact capacity: 6 A @ 24 Vdc
- Dimensions (W x H x D): 254 x 314 x 108 mm
- Certified EN54 part 3, No. 0051-CPD-0386



HPA700F

DSE/626 item no. 80HS2100123

Red siren for premises evacuation in compliance with regulation 626/94.

Two-tone alarm, xenon visual signalling.

- Operating voltage: 230 Vac
- Protection degree: IP44
- Sound pressure: 104 dB (A) at 3 m
- Operating temperature: -25°C ÷ +55°C
- Battery: 12V 2.1 Ah
- Dimensions (W x H x D): 210 x 265 x 65 mm
- Weight: 2.1 kg



DSE/626

T/800L item no. 80SR0200121\*\*

Visual repeater with cast-iron casing G-20 uni 5007. The visual repeater body features a light on the top part of the casing.

- The casing houses a bakelite lamp holder with terminals for connection of the repeater activation system, and a 30 Volt 5 Watt lamp
- Operating voltage: 10.5 to 36 Vdc
- Alarm absorption: 200 mA
- Protection degree: IP65
- Weight: 3 kg



T/800L

\*\*available upon order

AI	INTELLIGENT DETECTION		FI		FIRE DETECTION	
	HYBRID SYSTEMS	WIRELESS SYSTEMS	VOLUMETRIC DETECTORS	PERIMETER DETECTORS	OUTDOOR PROTECTIONS	SIRENS
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## VISUAL-ACOUSTIC INDICATORS

### Visual repeaters

LR500 item no. 80SR1100121

#### Outdoor visual repeater

- Indicates the alarm status of detectors installed in hidden locations
- Power supply: 12 – 24 Vdc
- Absorption: 11 mA
- Terminal connection
- Operating temperature: -10°C ÷ +55°C
- Weight: 30 g
- Protection degree: IP40
- Casing material: ABS, class V0
- No. 2 red high-efficiency LEDs
- Steady/flashing light, selectable
- Dimensions (W x H x D): 65.5 x 60.6 x 23.6 mm
- Protection degree: IP40



LR500

LR500SI item no. 80SR1200121

#### Outdoor visual repeater for FAP500 digital systems

- Visual repeater allowing to show the alarm status of a detector installed in hidden spaces and to indicate detector regular operation (green led flashing). Suitable for use with all Elkrone detectors with SD500R base.
- It can be used with FAP500 series detectors only
- Power supply : 12 – 24 Vdc
- Absorption: 11 mA
- Terminal connection
- Operating temperature: -10°C ÷ +55°C
- Weight: 30 g
- Protection degree: IP40
- Casing material: ABS, class V0
- No. 2 red high-efficiency LEDs
- No. 1 green high-efficiency LED
- Steady/flashing light, selectable
- Dimensions (W x H x D): 65.5 x 60.6 x 23.6 mm



LR500SI

SD500LI item no. 80SD5X00121 **NEW**

#### Base with sounder and integrated flashing light

- Operating voltage: 20Vcc (-15%, +10%) modulated – detection line
- Absorption in standard conditions: 250 micro A at 20Vdc
- Absorption in alarm conditions: 2,5 mA at 20Vdc
- Sound power from 1m distance for each mode: 78 dB
- Integrated insulating module
- Selectable acoustic tones
- Selectable acoustic emission volume
- Cover supplied with the product
- Configuration from control unit or through dip-switch on device
- Protection degree: IP21C
- Maximum number of bases in alarm per line: 20 on 64-Ohm base (the number changes in relation to the line cable resistance)
- DimensionS: ø 114mm
- Certified EN54 part 3: No. DoP 1293-CPR-0534



SD500LI

## ACCESSORIES

### Power units

ALIM2425 item no. 80PS5600121

Additional power unit 24V - 2.5A

- Network voltage: 230 Vac
- Output voltage: 27.6 Vdc
- Maximum output current: 2.5A
- Maximum battery charger current: 0.8A
- Operating temperature: - 5° + 40°C
- Protection degree: IP30
- Excluded batteries: 7A 2 RB12
- Weight: 8,2 Kg
- Dimensions (W x H x D): 460 x 340 x 130 mm
- Certified EN54 part 4: No. 1293-CPR-0524

ALIM2450 item no. 80PS5700121

Additional power unit 24V - 4A

- Network voltage: 230 Vac
- Output voltage: 27.6 Vdc
- Maximum output current: 4A
- Maximum battery charger current: 0.8A
- Operating temperature: - 5° + 40°C
- Protection degree: IP30
- Excluded batteries: 15A 2 RB15
- Weight: 9,4 Kg
- Dimensions (W x H x D): 460 x 340 x 130 mm
- Certified EN54 part 4: No. 1293-CPR-0524

### Electromagnetic stop

EM50P item no. 80MM7000123

Electromagnet with release button. Power supply 24 Vdc. Holding force 50 Kg

EM100P item no. 80MM9000123

Electromagnet with release button. Power supply 24 Vdc. Holding force 100 Kg

### Batteries

RB06 item no. 80RB0410113

Water-proof rechargeable battery 12 V 7.2 Ah

RB 19 item no. 80RB0310113

Water-proof rechargeable battery 12 V 2.2 Ah

RB 15 item no. 80RB0810113

Water-proof rechargeable battery 12 V 18 Ah

RB 24 item no. 80RB0510113

Water-proof rechargeable battery 12 V 26 Ah

RB 1212 item no. 80RB1110113

Water-proof rechargeable battery 12 V 12 Ah



ALIM2425

AI	FI							
	INTRUSION DETECTION	FIRE DETECTION						
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## SALES NETWORK

(((☞))) INTRUSION DETECTION / FIRE DETECTION (((☞)))

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