

CATALOGUE FIRE

2026



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ELKRON, THE KEY TO SECURITY.

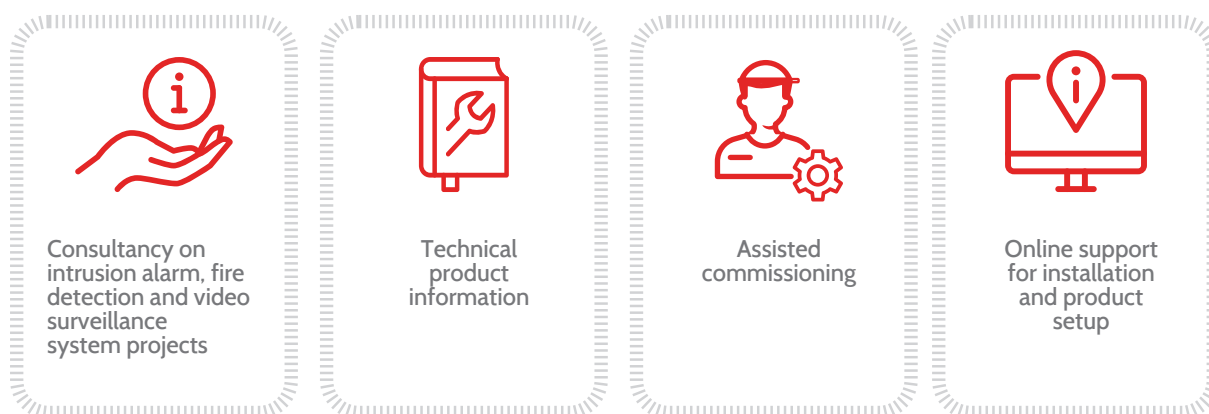
Elkron is an Italian company founded in 1974, with deep roots in the security sector, recognised as one of the leading manufacturers of advanced-technology intrusion alarm and fire detection systems, with a strong commitment to innovation.

A history spanning more than 50 years, told by the numbers: 14 quality marks, 21 registered patents, more than 26 million products installed, and an international presence in over 30 countries. Elkron was also the first company in Italy to apply microwaves to sensors, to patent the multifunctional hemispherical dome lens, and to drive the development of dual infrared and microwave technology.

Intrusion alarm, fire detection, video surveillance, home automation: different solutions that have been consolidated and renewed over time, with certified products compliant with international quality standards for residential, service-sector and industrial installations. All Elkron product families meet one essential requirement: combining highly technological content with ease of use, both for installers and end users.

In recent years, the R&D activities of the Turin-based company have focused on broader integration between its systems, to ensure high protection standards and new levels of comfort through smart-living functions. Elkron's product range has therefore been enriched with applications and configuration tools that allow installed products to be controlled remotely by specialised professionals and end users. Cloud services, configurators and apps make life simpler and safer for Elkron customers. Elkron is committed to providing customers with continuous, highly professional support through dedicated customer care, local service centres and a comprehensive training and update programme.

SERVICES FOR OUR CUSTOMERS



CONTINUOUS SUPPORT FOR INSTALLERS

TECHNICAL SUPPORT CENTRES

Elkron is committed to providing customers with continuous, highly professional support through dedicated customer care, local service centres and a comprehensive training and update programme.

TRAINING AND UPDATES

- Product support and technical information - Drawings and technical documentation - Advice on the different systems - Online support for product installations and set-ups - Consultancy on Fire, Security and Video Surveillance projects and compliance with industry regulations (reserved for design studios) - Commercial information

SALES NETWORK

Elkron, a historic security brand, has deep roots in the Italian market. Close support for customers is ensured by a widespread sales network, with sales offices, representative agencies and technical support centres ready to provide assistance and more detailed documentation on all security solutions.

FIRE DETECTION

CONVENTIONAL SYSTEMS



> 11 CONTROL PANELS

Modular range of conventional control units ideal for all service-sector and industrial applications, able to manage from 2 to 20 zones.



> 12 ACCESSORIES

Range of optional control-panel modules, including expansions and outputs.



> 14 DETECTORS

Range of standard smoke, heat (fixed-temperature and rate-of-rise) and gas detectors.



> 17 MANUAL CALL POINTS

Range of manual alarm call points with break-glass and resettable operation.



> 19 BASES

Universal bases for Series 400.



> 19 COMPLETE DUCT DETECTION BOX WITH SD500R BASE

Analysis chamber for detecting smoke in air ducts.

DIGITAL SYSTEMS



> 24 CONTROL PANELS

Range of digital control units ideal for all service-sector, industrial and hospitality applications. Four models able to manage from 1 to 16 loop lines, with high performance and a platform that allows several control units to be networked.



> 26 MODULES AND ACCESSORIES

Wide range of accessories for digital control units, including expansions, I/O modules, remote panels, serial interfaces and software applications.



> 31 DETECTORS

Range of smoke, heat (fixed-temperature and rate-of-rise) and optical-heat detectors.



> 33 MANUAL CALL POINTS

Range of manual alarm call points with break-glass and resettable operation.



> 35 BASES

Universal bases for Series 500.



> 35 COMPLETE DUCT DETECTION BOX WITH SD500R BASE

Analysis chamber for detecting smoke in air ducts.

EXTINGUISHING SYSTEMS



> 39 CDS

Addressable 1-loop control unit, complete with 1 extinguishing channel, expandable to 2.

STAND-ALONE WIRELESS SYSTEMS



> 43 CONTROL UNIT

Management module for devices wireless.



> 45 DETECTORS AND CALL POINTS

Range of smoke detectors, heat detectors, optical-heat detectors and call points.



> 49 ACTUATORS

Range of actuators with and without flashing beacon.

GAS DETECTION



> 52 CONTROL PANELS

Gas detection control units ideal for applications such as car parks, chemical laboratories, industrial kitchens, etc. Equipped with self-diagnostics and device monitoring.

> 54 ACCESSORIES

Range of optional control-panel modules, including expansions and outputs.



> 55 DETECTORS

Complete range of explosive and toxic gas detectors.

SPECIAL DETECTORS



> 60 ASPIRATING SMOKE DETECTORS

Highly flexible devices for applications such as small and medium-sized warehouses, cold storage and concealed spaces (suspended ceilings and raised floors).



> 62 ACCESSORIES

Range of optional control-panel modules, including expansions and outputs.



> 63 DETECTORS

Range of detectors suitable for applications where standard installation is complex, such as museums, service-sector spaces with moving machinery, suspended ceilings, raised floors, ducts, etc.

EVAC SYSTEMS



> 70 CONTROL PANELS

Range of compact control units from 2 to 6 zones, complete with amplifiers, power supply units and audio sources.



> 71 MICROPHONE STATIONS

Range of microphone stations for emergency announcements.



> 73 LOUDSPEAKERS AND PROJECTORS

Complete range of one-way and two-way projectors, ceiling-mounted, recessed, wall-mounted, indoor and outdoor.

VISUAL/AUDIBLE SIGNALLING DEVICES / ACCESSORIES



> 78 VISUAL/AUDIBLE DEVICES

Conventional and loop-addressable optic-acoustic devices.



> 79 SIGNALLING DEVICES

Conventional and loop-addressable visual and audible signalling devices.



> 81 SOUNDERS

Range of indoor and outdoor sounders.



> 84 ACCESSORIES

Range of complementary accessories such as auxiliary power supply units and electromagnetic door holders.

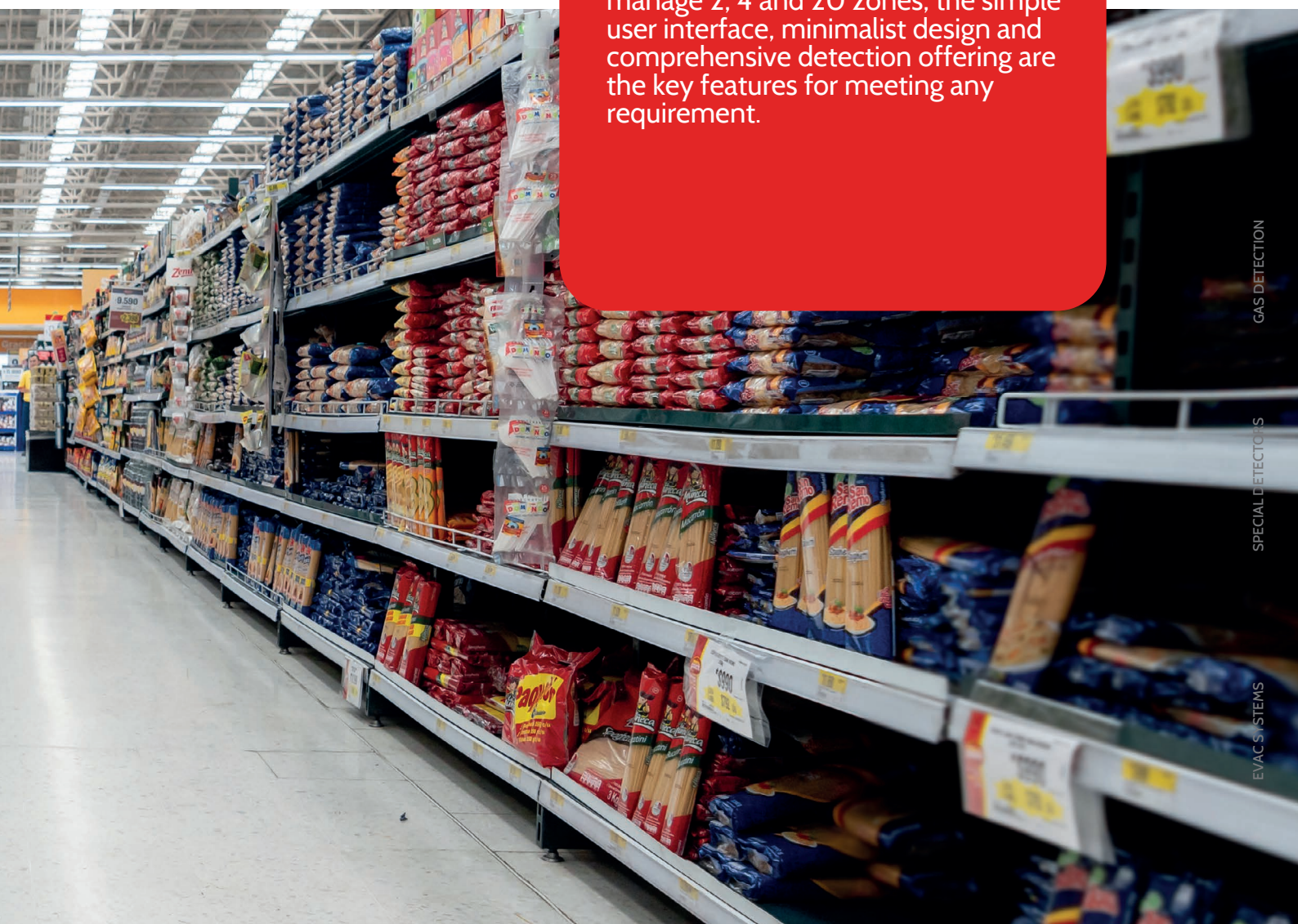


CONVENTIONAL SYSTEMS



FIRE

Elkron conventional systems are ideal for all service-sector and industrial applications. The outstanding versatility of the range, with control units able to manage 2, 4 and 20 zones, the simple user interface, minimalist design and comprehensive detection offering are the key features for meeting any requirement.



GAS DETECTION

SPECIAL DETECTORS

EVACTION SYSTEMS

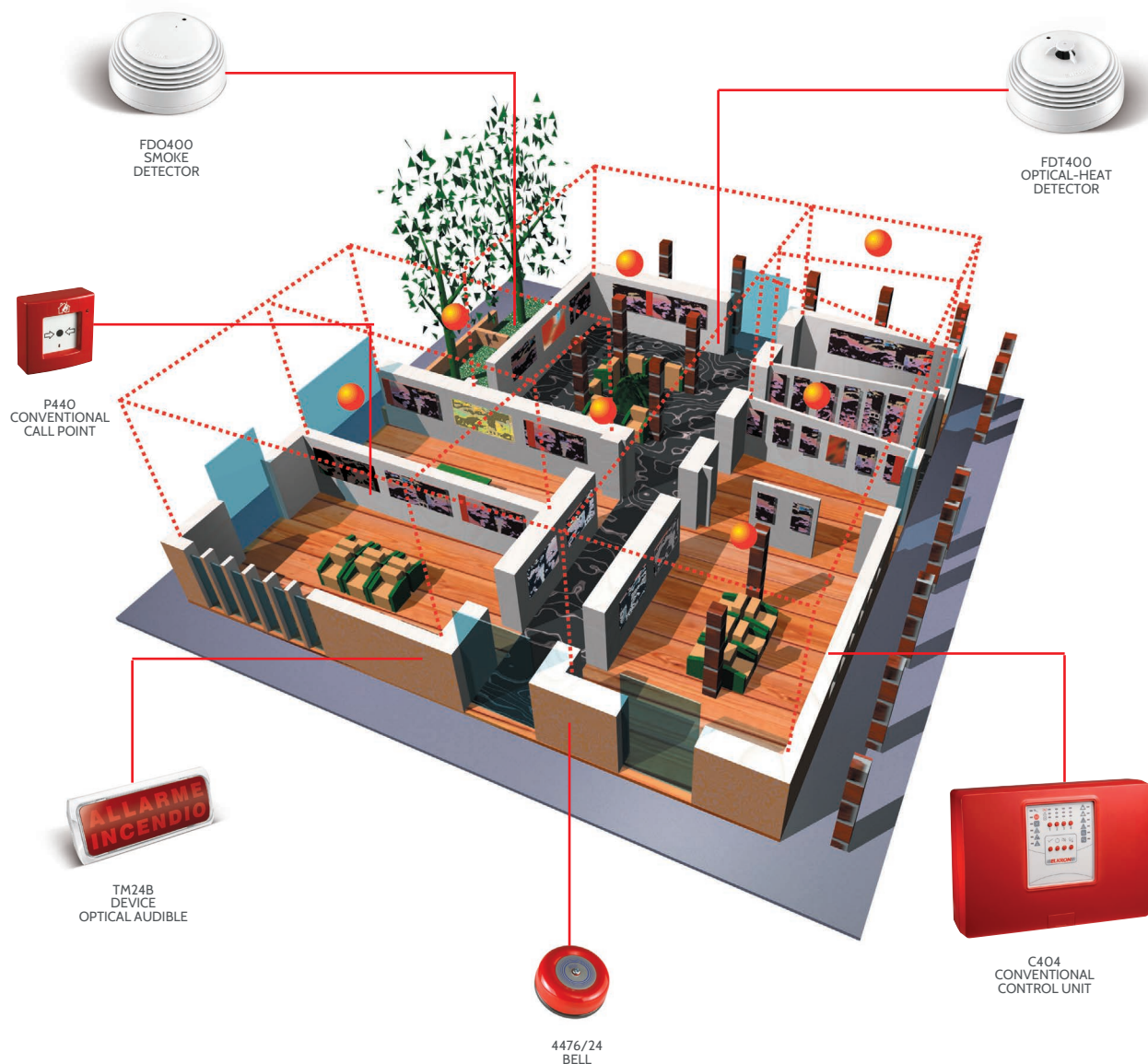
CONVENTIONAL SYSTEMS

The Elkrone Series 400 conventional system is easy to install and manage, thanks to its functions and wide range of accessories.

It is designed to meet installation requirements for small and medium-sized systems in residential, industrial and service-sector applications. System events are stored in non-volatile memory and displayed using easy-to-understand icons.

The system is programmed using the function keys on the control unit front panel.

The versatility of Series 400 makes it possible to set a different alarm threshold for each zone, expand capacity up to 20 zones and provide one programmable relay output for each control unit input.



CONVENTIONAL SYSTEMS

CONTROL PANELS C400

The C400 range fire detection control units (C402 and C404) monitor up to two and four independent zones respectively, with a maximum of 32 devices per zone. Each line is treated as a zone and can be enabled or disabled from the keypad. The control unit has two outputs: a general alarm sounder output, activated when at least one zone is in alarm, and a general fault relay, activated when a fault occurs in the control unit or on a zone. The general alarm sounder output can be enabled or disabled from the keypad. Additional relay outputs for general alarm and zone alarm are available on an optional relay board. For each zone independently, it is possible to choose whether the alarm is signalled when one device is in alarm (single confirmation) or when at least two devices are in alarm (double confirmation). This helps reduce the possibility of false alarms.

•Common features

- ✓Power supply: 26.4 Vdc
- ✓Balanced lines with dual threshold
- ✓Pre-alarm current consumption (single confirmation): 20 mA
- ✓Alarm current consumption (double confirmation): 40 mA
- ✓Sounder output supervised: 24Vcc @ 500 mA
- ✓Field output: 24 Vdc @ 500 mA
- ✓Fault relay output: 24 Vdc @ 1 A
- ✓Electrical output protection
- ✓Non-volatile memory
- ✓Battery charge control according to ambient temperature
- ✓Battery charge limitation
- ✓Programming keypad
- ✓Individual line disablement
- ✓Zone indications: LED
- ✓Battery housing: 2 x 7.2 Ah - 12 Vdc batteries
- ✓Operating temperature: -5 °C ÷ +50 °C
- ✓Material: ABS
- ✓Dimensions (L x H x P): 340 x 240 x 96 mm

C402 item no. 80SC8000121

Microprocessor control panel with 2 zones

- ✓Certified EN54 part 2 and part 4. N.0051-CPD-0338

C404 item no. 80SC8400121

Microprocessor control panel with 4 zones

- ✓Certified EN54 part 2 and part 4. N. 0051-CPD-0337



CONVENTIONAL SYSTEMS

ACCESSORIES FOR C400 CONTROL PANELS

OPTIONAL MODULES

The optional MR402 and MR404 modules provide 2 and 4 voltage-free relay outputs respectively, allowing alarm signals from each zone to be differentiated.

The relays for each zone are activated:

- when a single device enters the alarm state (zone programmed for single confirmation)

- when two or more devices enter the alarm state (zone programmed for double confirmation).

- ✓ The optional MR402 and MR404 modules also include a voltage-free relay output that indicates an alarm condition on any control unit zone. Contact type: voltage-free changeover contact.

- ✓ Power supply: 26.4 Vdc

- ✓ Maximum current: 1 A with resistive load

MR402 item no. 80SC5410121

Optional output module with 2 relay for control panel C402

MR404 item no. 80SC9810121

Optional output module with 4 relay for control panel C404



CONVENTIONAL SYSTEMS

CONTROL PANEL C420

C420 item no. 80SC8600121

4-zone fire detection control unit expandable to 20 zones

The C420 conventional control unit is modular and can manage from a minimum of 4 zones (basic configuration) up to a maximum of 20 (using optional ML420 modules), to which up to 512 devices can be connected. Each zone can manage up to 32 conventional points or devices, subject to the overall maximum of 512 devices managed by the control unit. Each zone is associated with a relay that activates when the zone enters alarm condition. The control unit also provides the following outputs and relays: one alarm output, one sounder output, one fault output, one programmable output activated in the event of mains failure or exclusions, and one supervised sounder output. A further four supervised supplementary sounder outputs are available on the optional MR420 module; each output can be independently associated with one or more zones. The control unit is equipped with a 4x40 alphanumeric display and a 12-key keypad. A PS2 keyboard can also be connected to facilitate user input during programming. The control unit has an event log capable of storing up to 1,000 events.



DIGITAL SYSTEMS

SYSTEMS
EXTINGUISHING

- ✓•Number of zones: 4, expandable to 20
- ✓•Power supply: 25.5 Vdc $\pm$ 5% at no load
- ✓•Alarm current consumption (single confirmation): 20 mA
- ✓•Alarm current consumption (double confirmation) 40 mA
- ✓•Sounder output supervised: 24 Vcc @ 500 mA
- ✓•Field output: 24 Vcc @ 1A
- ✓•Fault relay output: 30 Vdc @ 1 A
- ✓•Non-volatile memory: yes
- ✓•Individual line disablement: yes
- ✓•Information display: 40x4 LCD display
- ✓•Battery housing: 2 (da 12 V @ 12 A)
- ✓•Material: ABS cover - painted metal base
- ✓•Dimensions (L x H x P): 490 x 350 x 149 mm
- ✓•Certified EN54 part 2 and part 4. N.0051-CPR-0382

WIRELESS SYSTEMS

GAS DETECTION

ACCESSORIES FOR C420 CONTROL PANEL

ML420 item no. 80SC0910121

Expansion module with 4 inputs /4 outputs relay

- ✓•Contact type: NO/NC voltage-free contact, selectable by jumper
- ✓•Maximum applicable voltage: 30 Vdc
- ✓•Maximum current: 1 A, resistive load



SPECIAL DETECTORS

MR420 item no. 80SC0810121

4-output supervised module

- ✓•Output voltage: 24 Vdc
- ✓•End-of-line resistor: 3300 Ω
- ✓•Maximum output current 250 mA
- ✓•Internal protection circuit - resettable

EVAC SYSTEMS

SIGNALLING
OPTICAL
ACOUSTIC
ACCESSORIES

CONVENTIONAL SYSTEMS

OPTICAL SMOKE DETECTOR

FDO400 item no. 80SD7U00121

Low-profile optical smoke detector

Smoke detectors operate on the light-scattering principle caused by smoke particles in the air (Tyndall effect). The detector features automatic gain control; a microcontroller calculates reading compensation to maintain constant sensitivity over time, correcting any increase in level caused by dust deposits inside the sensing chamber. Smoke detectors must be installed where there are no air currents that could divert the flow of particles produced by combustion and where normal activities do not generate fires involving gaseous materials.



- ✓ Power supply voltage: 20 Vdc (modulated voltage from -15% to +10%)
- ✓ Average standby current consumption: 65 µA @ 20 Vcc
- ✓ Alarm current consumption: 23 mA @ 20 Vcc
- ✓ 3-colour LED: red = alarm; green = normal operation; yellow = maintenance required; green flashing with a sequence of yellow flashes = fault status.
- ✓ Minimum reset time: 300 ms
- ✓ Max. relative humidity: 93%
- ✓ Operating temperature: -10 °C ÷ +55 °C
- ✓ Material: ABS VO
- ✓ Weight: 70 g
- ✓ Dimensions (ø x H): 90 x 31 mm
- ✓ Certified EN54 part 7, N.1293-CPD-0189

HEAT DETECTOR

FDT400 item no. 80SD8U00121

Low-profile heat detector

Heat detectors monitor the temperature in the area where they are installed. A microcontroller analyses and compares the signal received from a precision NTC temperature sensor, activating the alarm if the temperature exceeds 58 °C.



- ✓ Power supply voltage: 20 Vdc (modulated voltage from -15% to +10%)
- ✓ Average standby current consumption: 40 µA @ 20 Vcc
- ✓ Alarm current consumption: 23 mA @ 20 Vcc
- ✓ Static alarm threshold: 58 °C ± 5%
- ✓ 3-colour LED: red = alarm; green = normal operation; green flashing with a sequence of yellow flashes = fault status.
- ✓ Max. relative humidity: 93%
- ✓ Operating temperature: -10 °C ÷ +55 °C
- ✓ Material: ABS VO
- ✓ Weight: 70 g
- ✓ Dimensions (ø x H): 90 x 40 mm
- ✓ Certified to EN54 Part 5 Class A1S, No. 1293-CPD-0179

CONVENTIONAL SYSTEMS

RATE-OF-RISE HEAT DETECTOR

FDTD400 item no. 80SD1V00121

Low-profile rate-of-rise heat detector

Rate-of-rise heat detectors monitor temperature increases in the area where they are installed. A microcontroller analyses and compares the signal received from a precision NTC temperature sensor, activating the alarm if the temperature rise exceeds 5 °C per minute.

- ✓ Power supply voltage: 20 Vdc (modulated voltage from -15% to +10%)
- ✓ Average standby current consumption: 40 µA @ 20 Vcc
- ✓ Alarm current consumption: 23 mA @ 20 Vcc
- ✓ Static alarm threshold: 58 °C ± 5%
- ✓ 3-colour LED: red = alarm; green = normal operation; green flashing with a sequence of yellow flashes = fault status.
- ✓ Max. relative humidity: 93%
- ✓ Operating temperature: -10 °C ÷ +55 °C
- ✓ Material: ABS VO
- ✓ Weight: 70 g
- ✓ Dimensions (ø x H): 90 x 40 mm
- ✓ Certified to EN54 Part 5 Class A1R, No. 1293-CPD-0180



OPTICAL-HEAT DETECTOR

FDOT400 item no. 80SD9U00121

Low-profile optical-heat detector

Combined dual-technology (smoke-heat) detectors operate using the light-scattering principle caused by smoke particles in the air (Tyndall effect) and by monitoring the temperature in the area where they are installed. A microcontroller analyses and compares the signal received from a precision NTC temperature sensor, activating the alarm if the temperature exceeds 58 °C. The detector features automatic gain control; a microcontroller calculates reading compensation to maintain constant sensitivity over time.

- ✓ Power supply voltage: 20 Vdc (modulated voltage from -15% to +10%)
- ✓ Average standby current consumption: 65 µA @ 20 Vcc
- ✓ Alarm current consumption: 23 mA @ 20 Vcc
- ✓ Static alarm threshold: 58 °C ± 5%
- ✓ 3-colour LED: red = alarm; green = normal operation; yellow = maintenance required; green flashing with a sequence of yellow flashes = fault status.
- ✓ Minimum reset time: 300 ms
- ✓ Max. relative humidity: 93%
- ✓ Operating temperature: -10 °C ÷ +55 °C
- ✓ Material: ABS VO
- ✓ Weight: 70 g
- ✓ Dimensions (ø x H): 90 x 40 mm
- ✓ Certified to EN54 Part 5 Class A1 and Part 7, No. 1293-CPD-0178



CONVENTIONAL SYSTEMS

METHANE GAS DETECTOR

FDMET400 item no. 80SD2A00121

Methane gas detector complete with base and relay output

FDMET400 detectors signal the presence of methane gas at concentrations below the lower explosive limit (L.E.L.), i.e. 10%, well before an explosive mixture is formed. The detector has an alarm relay output with changeover contact (NO and NC), an opto-isolated NC fault output and two terminals for connection to a current-absorbing line for conventional control units.



- ✓ Power supply voltage: 11 ÷ 29 Vdc
- ✓ Standby current consumption: 60mA @ 12Vcc - 30mA @ 24Vcc
- ✓ Alarm current consumption: 70mA @ 12Vcc - 40mA @ 24Vcc
- ✓ Alarm line current consumption: 50mA @ 24Vcc
- ✓ Alarm delay: 20 seconds
- ✓ Alarm reset delay: 30 seconds
- ✓ Detection alarm threshold: 10% LEL - 0.50% by volume
- ✓ Alarm relay output: (NO-NC) 1 A, 30 Vdc, resistive load
- ✓ Fault output: opto-isolated NC contact, 20 mA, 30 Vdc
- ✓ Operating temperature: 0 ÷ 40 °C (max -15 °C ÷ 55 °C)
- ✓ Weight: 110 g
- ✓ Enclosure ABS white
- ✓ Protection rating IP30
- ✓ Dimensions (Ø x H): 90 x 48 mm (base included)

LPG GAS DETECTOR

FDGPL400 item no. 80SD5200121

LPG gas detector complete with base and relay output

FDGPL400 detectors signal the presence of LPG at concentrations below the lower explosive limit (L.E.L.), i.e. 10%, well before an explosive mixture is formed. The detector has an alarm relay output with changeover contact (NO and NC), an opto-isolated NC fault output and two terminals for connection to a current-absorbing line for conventional control units.



- ✓ Power supply voltage: 11 ÷ 29 Vdc
- ✓ Standby current consumption: 60mA @ 12Vcc - 30mA @ 24Vcc
- ✓ Alarm current consumption: 70mA @ 12Vcc - 40mA @ 24Vcc
- ✓ Alarm line current consumption: 50mA @ 24Vcc
- ✓ Alarm delay: 20 seconds
- ✓ Alarm reset delay: 30 seconds
- ✓ Detection alarm threshold: 10% LEL - 0.18% by volume
- ✓ Alarm relay output: (NO-NC) 1 A, 30 Vdc, resistive load
- ✓ Fault output: opto-isolated NC contact, 20 mA, 30 Vdc
- ✓ Operating temperature: 0 ÷ 40 °C (max -15 °C ÷ 55 °C)
- ✓ Weight: 110 g
- ✓ Enclosure ABS white
- ✓ Protection rating IP30
- ✓ Dimensions (Ø x H): 90 x 48 mm (base included)

CONVENTIONAL SYSTEMS

MANUAL CALL POINTS

P445 item no. 80SB3500121

Red conventional break-glass alarm call point

- ✓ Visual alarm indication: red LED
- ✓ Weight: 100 g
- ✓ Alarm current consumption: 20 mA @ 18 Vdc
- ✓ Operation type: break glass
- ✓ Dimensions (L x H x P): 110 x 110 x 42 mm
- ✓ Certified EN54 part 11, N. 1293-CPD-0169



DIGITAL SYSTEMS

P440 item no. 80SB3800121

Red conventional resettable alarm call point

- ✓ Visual alarm indication: red LED
- ✓ Weight: 100 g
- ✓ Alarm current consumption: 20 mA @ 18 Vdc
- ✓ Operation type: resettable
- ✓ Dimensions (L x H x P): 110 x 110 x 42 mm
- ✓ Certified EN54 part 11, N. 1293-CPD-0168


SYSTEMS
EXTINGUISHING

2570WP item no. 80SB3100123

IP66 resettable manual call point

- ✓ Power supply: 9 ÷ 30 Vdc
- ✓ Maximum current: 3 A
- ✓ Contacts: 1 changeover
- ✓ Material: ABS VO
- ✓ Operating temperature: -25 °C ÷ +70 °C (75% RH)
- ✓ Supplied with: reset key
- ✓ Protection rating: IP66
- ✓ Dimensions (L x H x P): 110 x 110 x 53 mm
- ✓ Certified EN54 part 11



WIRELESS SYSTEMS

GAS DETECTION

SPECIAL DETECTORS

EVAC SYSTEMS

SIGNALLING
OPTICAL
ACOUSTIC
ACCESSORIES

CONVENTIONAL SYSTEMS

MANUAL CALL POINTS

BACK BOX item no. 80SB7410121

Back box for manual call points

The back box is an accessory for manual call points P440, P445, FM500 and FMR500 listed in the catalogue. It is used to simplify installation in industrial environments with surface-mounted conduit.



V435-445 item no. 80SB4810121

Replacement glass for manual call points P445 and FMR500

V430-440 item no. 80SB6810121

Replacement glass for manual call points to resettable P440 and FM500

CTS03 item no. 80FH8000123

Alarm call point location sign

- ✓Aluminium sign
- ✓FIRE ALARM wording
- ✓Dimensions: 160 x 210 mm



item no. 80SB7510121

Protective cover for call points

Compatible with manual call points P440 - P445 - FM500 and FMR500.

- ✓Material: transparent polycarbonate
- ✓Opening angle: 180°
- ✓Dimensions (L x H x P): 114 x 110 x 10 mm
- ✓Weight: 28 g

UNIVERSAL BASES

DETECTOR BASES

SD500 item no. 80SD4K00121

Standard base

The base is common to all FAP500 series digital detectors and all Series 400 conventional detectors.

- ✓•Material: ABS
- ✓•Colour: white
- ✓•Dimensions: $\varnothing$ 90 mm



SD500R item no. 80SD5K00121

Standard base with alarm repetition output for FAP500 series digital detectors

The base is common to all FAP500 series digital detectors; its output can directly drive a remote indicator.

- ✓•Material: ABS
- ✓•Colour: white
- ✓•Dimensions: $\varnothing$ 90 mm
- ✓•Alarm repeater output: 12 mA @ 24 Vcc

SD515 item no. 80SD2V00121

Back box

SD500RL item no. 80SD1W00121

Standard base with relay output

The base is common to all Series 400 conventional detectors; its relay output can drive a remote indicator (auxiliary power supply required).

- ✓•Voltage-free relay output: 1 A @ 30 V
- ✓•Material: ABS
- ✓•Colour: white
- ✓•Dimensions: $\varnothing$ 90 mm

COMPLETE DUCT DETECTION BOX WITH SD500R BASE

R/820 item no. 80SD3L10121

Duct smoke detection chamber

The duct detection chamber is designed to monitor the presence of smoke in air ducts and detect the spread of a fire at an early stage. Both digital and conventional smoke detectors can be installed inside the chamber.

- ✓•Thermoplastic enclosure with a Plexiglas window in the cover for visual inspection of the detector's local alarm indicator
- ✓•Two 500 mm PVC probes
- ✓•Dimensions (L x H x P): 168 x 220 x 105 mm





DIGITAL SYSTEMS



FIRE

The Series 500 digital system features a communication platform that allows several control units to be networked, ensuring an excellent level of performance together with simple installation, programming and management. Ideal for service-sector applications with demanding management requirements.

GAS DETECTION

SPECIAL DETECTORS

EVAC SYSTEMS

DIGITAL SYSTEMS

The new FAP54 EVO digital control units feature a platform that allows several control units to be networked, ensuring excellent performance and simple installation, programming and management. The system is modular and flexible and consists of 4 control unit models that manage:

- ✓ 480 virtual zones, each configurable for a specific operating type (fire, technological);
- ✓ 240 device groups, freely assignable when cross-control is required; 240 zone groups, freely assignable when higher-level control is required; monitoring of detector sensitivity
- ✓ and contamination percentage; event memory (up to 1,000); the new 11224 menu, which facilitates maintenance as described in UNI 11224.

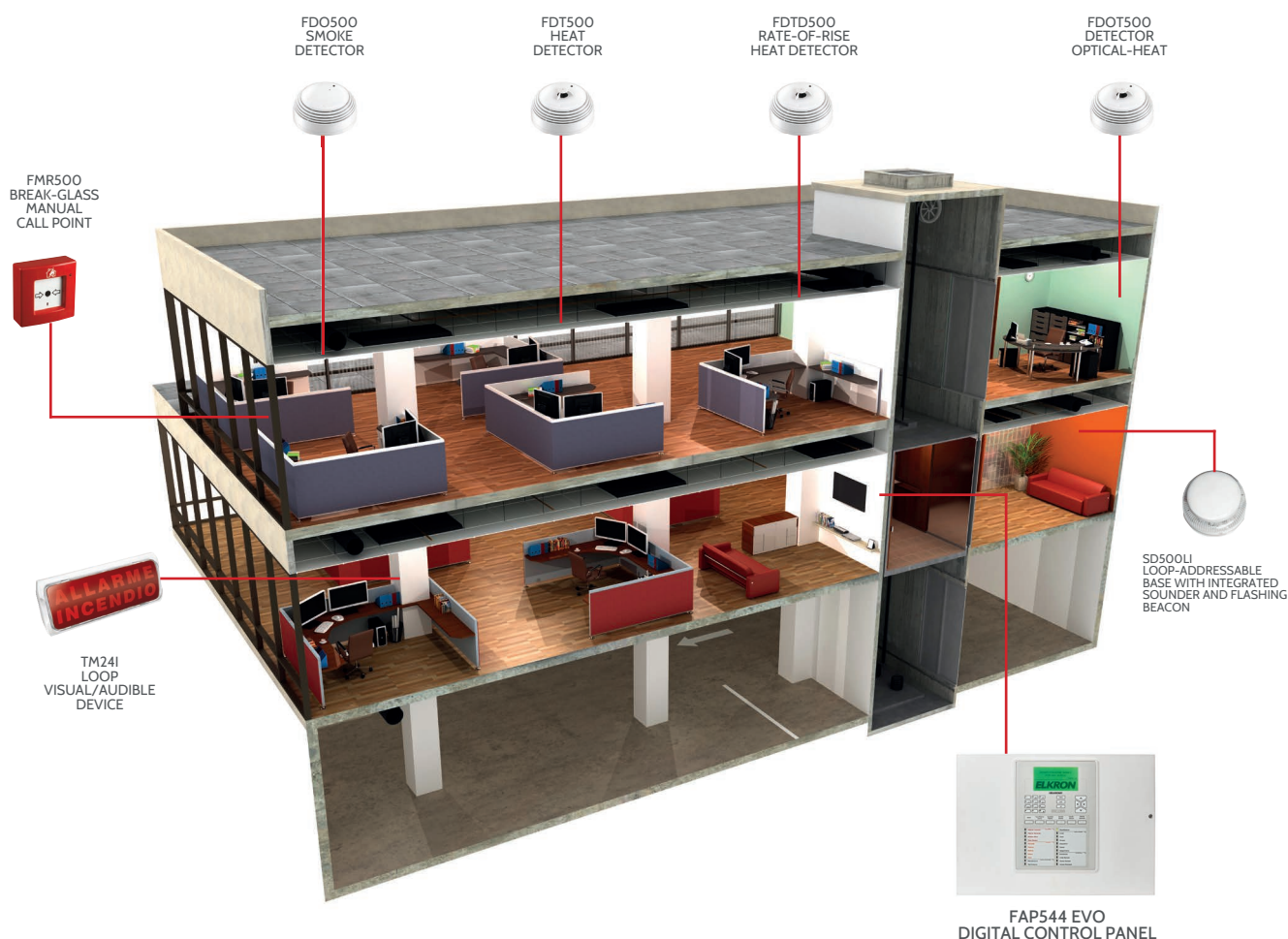
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Each configuration can be easily programmed from the control unit keypad or via PC. All control units are equipped for network communication through a LAN TCP/IP interface, a communication port for Master/Slave functions, a printer connection port, an opto-isolated RS485 port for repeater panels, and a USB port for data download and system configuration via PC. The new configuration software and IperFire supervision software enhance the system for local and remote information management.



DIGITAL SYSTEMS

Nuova app My Elkron Family

The new My Elkron Family app integrates fire detection system control with intrusion alarm and video surveillance system management. The My Elkron Family application is available from the Play Store and App Store for smartphones and tablets. The minimum required version is Android 5.0 and iOS 9.3.

The fire function for managing fire detection systems allows users to:

- ✓ Automatically acquire the control unit or scan its QR code
- ✓ View system status
- ✓ View information relating to an alarm, pre-alarm or fault
- ✓ View line and zone status
- ✓ Manage event push notifications.



Nuovo software IperFire

IperFire is Elkron's new client/server application designed to enable integration and centralised control of fire detection systems.

By connecting the control units to the LAN, IperFire can perform the following operations:

- ✓ Acquisition of control unit events
- ✓ Display of control unit sensor and line status on interactive maps
- ✓ Detection of each sensor's contamination level and sensitivity, with value graphs.



DIGITAL SYSTEMS

CONTROL PANELS FAP54

FAP541 item no. 80SC6100121

Digital control panel with 1 line loop

- ✓•Configuration: 1 loop line (Class A) or 2 open lines (Class B)
- ✓•Can manage up to 128 points for loop
- ✓•Automatic device learning and logical point addressing
- ✓•4 x 40-character backlit display
- ✓•Event log: 1,000 events
- ✓•Event history viewable directly on the display
- ✓•10 programmable passwords on 3 levels
- ✓•480 programmable zones
- ✓•USB port for local PC connection and software programming
- ✓•Possibility to monitor detector sensitivity and contamination percentage
- ✓•Integrated real-time clock with backup battery
- ✓•Non-volatile memory
- ✓•Storage of alarm data in devices
- Monitoring of the first 10 devices entering alarm, with a numerical display of the time trend
- ✓•Control-panel outputs: 4 [sounder relay, alarm relay, fault relay, programmable relay (mains failure/disablement)]
- ✓•Internal buzzer
- ✓•Individual point/zone/line disablement
- ✓•Power supply: 230 Vac
- ✓•Maximum output current: 1.5Ah 24V
- ✓•Battery charge limitation and condition monitoring
- ✓•Battery housing: 2 x 12 V 12 Ah batteries
- ✓•Maximum loop length: 2 km with shielded 2 x 1.5 mm² cable
- ✓•Immunity to interference up to 10 V/m
- ✓•Common communication protocol for all system control units
- ✓•Dimensions (L x H x P): 490 x 350 x 145 mm
- ✓•Certified EN54 part 2 and part 4, N. 0051-CPR-0240



DIGITAL SYSTEMS

CONTROL PANELS FAP54 EVO

FAP544 EVO item no. 80SC4A00121

Digital control panel with 2 lines loop expandable 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)
- ✓ Can manage up to 128 points for loop
- ✓ Automatic device learning and logical point addressing
- ✓ Backlit colour display
- ✓ New icon and menu graphics
- ✓ Event log: 1,000 events
- ✓ Event history viewable directly on the display
- ✓ 10 programmable passwords on 3 levels
- ✓ 480 programmable zones
- ✓ USB port for local PC connection and software programming
- ✓ Possibility to monitor detector sensitivity and contamination percentage
- ✓ Integrated real-time clock with backup battery
- ✓ Non-volatile memory
- ✓ Storage of alarm data in devices
- ✓ Monitoring of the first 10 devices entering alarm, with graphical and numerical display of the time trend
- ✓ Display of event history and maintenance operations with menu 11224
- ✓ Control-panel outputs: 4 [sounder relay, alarm relay, fault relay, programmable relay (mains failure/disablement)]
- ✓ Internal buzzer
- ✓ Individual point/zone/line disablement
- ✓ Power supply: 230 Vac
- ✓ Maximum output current: 1.5Ah 24V
- ✓ Battery charge limitation and condition monitoring
- ✓ Battery housing: 2 x 12 V 12 Ah batteries
- ✓ Maximum loop length: 2 km with shielded 2 x 1.5 mm² cable
- ✓ Immunity to interference up to 10 V/m
- ✓ Common communication protocol for all system control units
- ✓ Dimensions (L x H x P): 490 x 350 x 145 mm
- ✓ Certified EN54 part 2 and part 4, n. 0051-CPR-0239



DIGITAL SYSTEMS

CONTROL PANELS FAP54 EVO

FAP548 EVO item no. 80SC5A00121

Digital control unit with 4 loop lines, expandable to 8

- ✓ Same features as FAP544 EVO
- ✓ Basic configuration: 4 loop lines (Class A) or 8 open lines (Class B)
- ✓ Maximum configuration: 8 loop lines (Class A) or 16 open lines (Class B)
- ✓ Certified EN54 part 2 and part 4, n. 0051-CPR-0238



FAP5416 EVO item no. 80SC6A00121

Digital control panel with 8 lines loop expandable to 16

- ✓ Same features as FAP544 EVO
- ✓ Basic configuration: 8 loop lines (Class A) or 16 open lines (Class B)
- ✓ Maximum configuration: 16 loop lines (Class A) or 32 open lines (Class B)
- ✓ Certified EN54 part 2 and part 4, N. 0051-CPR-0237

EXPANSION MODULES

FA128 item no. 80SC3310121

Expansion module with 1 loop

The expansion module adds 1 loop line or 2 open lines to the control unit. Up to 128 points (detectors, call points, interfaces) can be connected. The module is installed directly on the control unit backplane and allows the connected devices to be acquired and monitored. Devices can be connected in loop or open-line configuration. Configuration is carried out during programming.



- ✓ Internal communication bus: RS485
- ✓ Maximum line current: 150 mA
- ✓ Installation: on the control unit internal backplane
- ✓ Weight: 85 g
- ✓ Dimensions (L x H x P): 85 x 65 x 22 mm

ML54FAP item no. 80SC1M10121

Line module AREA54 for control panels FAP500

The line module allows the field devices of an existing AREA54 system to be connected and interfaced with FAP500 control units like a standard FA128 expansion module. The module therefore makes it possible to gradually replace an old AREA54 system with a new system managed by FAP500.



- ✓ For use with FAP500 series control units
- ✓ Mechanical dimensions identical to the FA128 module
- ✓ Electrical interface identical to the FA128 module
- ✓ Serial communication format to the control unit identical to the FA128 module
- ✓ Command set identical to the FA128 module
- ✓ No changes to FAP control unit firmware required to manage the module
- ✓ Module can be used together with an FA128 module
- ✓ Communication and management of AREA54 field detectors on the detection-line side
- ✓ Maximum total number of manageable devices 128
- ✓ 1 loop line, 2 open lines

DIGITAL SYSTEMS

ACCESSORIES

FKP500T item no. 80KP5600121

Touchscreen remote panel

The remote panel is a device with a 7-inch colour TFT graphic display and touch keypad. It is an accessory for the digital fire system and can receive and display all indications and information from the control unit. It can silence the local buzzer, silence audible and visual alarm devices, reset the connected control unit, display control unit menus in detail, and graphically display the contamination trend of an individual detector. It can be programmed from the control unit or using the SOFT/FAP500A configuration software, available for free download from the Elkron website.



- ✓ Power supply voltage: 24 V +10 / -45%
- ✓ Typical current consumption @ 24 V: 120 mA
- ✓ Communication: 2-wire opto-isolated RS485, 115200 / 57600 bit/s
- ✓ Operating temperature: -5°C ÷ +40°C
- ✓ Protection rating: IP30
- ✓ Remote control unit dimensions (W x H x D): 202 x 142 x 24 mm

IO500 item no. 80SC3A00121

Multipurpose module 1 input/1 output

The device allows conventional detectors with voltage-free contacts (NC/NO), probes or other devices (signs, electromagnetic door holders, sounders, etc.) to be connected.

The digital module is equipped with a short-circuit isolator and can be programmed in different modes: output module (MU), input module for stable voltage-free contacts (LI), input module for pulse contacts (PI), EVAC module (NEW). This last mode allows FAP54 EVO control units to interface with and synchronise Elkron EVAC systems.

The module does not manage input and output simultaneously at the same address.

- ✓ External power supply: 24 Vdc (-15%, +10%)
- ✓ Detection-line current consumption: 250 mA @ 20 Vdc modulated
- ✓ Relay output: 1 A, 30 Vdc, resistive load
- ✓ Supervised output without external power supply (alarm repetition output): 15 mA max
- ✓ Supervised output with external power supply: 750 mA max
- ✓ Operating temperature: -10 °C ÷ +55 °C
- ✓ Relative humidity: 93% max., non-condensing
- ✓ Certified EN54 part 17 and part 18, N. 1293-CPD-01377



IO501 item no. 80SC2N00121

Miniature output module

The IO501 module is equipped with a short-circuit isolator and is an actuator module (MU) with a voltage-free contact output. It requires no external power supply and is powered directly from the detection line. A jumper on the module selects whether the output contact is normally open or normally closed. The module also has an input for supervising the local 24 Vdc supply voltage of the equipment being controlled; loss of this voltage, or its unexpected presence, is reported by the module to the control unit.



- ✓ Suitable for installation inside the HPA700MF sounder and TM24-B signs
- ✓ Certified EN54 part 17 and part 18, N. 1293-CPD-0353

DIGITAL SYSTEMS

ACCESSORIES

IO502 item no. 80SC2T00121

Multipurpose module with 2 inputs / 2 outputs

The device allows conventional detectors with voltage-free (NO/NC) or pulse contacts to be connected. It has two input modules, two output modules and an integrated short-circuit isolator.

- ✓ Programmable LI (stable) or PI (pulse) inputs
- ✓ LI input programmable for single-threshold or multi-threshold operation
- ✓ 2 outputs: 1 output sounder supervised and 1 output relay
- ✓ Actuation mode is type O only
- ✓ Short-circuit isolator
- ✓ Output relay: 1 A, 30 Vdc
- ✓ Weight: 240 g
- ✓ Dimensions (L x H x P): 180 x 138 x 45 mm

MC500 item no. 80SC1E10121

Concentrator module

The MC500 module includes a short-circuit isolator and allows conventional detectors to be connected to a FAP500 series addressable system.

The MC500 module provides: - a supervised conventional detection line to which up to 32 devices can be connected; - a supervised sounder output to which an alarm signalling device can be connected, directly controlled when the module enters alarm condition.

The MC500 module can be programmed from the control unit to operate with single or double confirmation. In single-confirmation mode, when a detector enters alarm condition, the module reports it to the control unit and automatically activates its sounder output; in double-confirmation mode, activation of the sounder output occurs when the second detector enters alarm condition.

The sounder output is activated when the second detector enters alarm condition.

When active, the sounder output can be silenced and reset directly from the control unit.

For correct operation, the module requires an external 24 Vdc power supply.

- ✓ Certified EN54 part 17 and part 18, N. 1293-CPD-0351



DIGITAL SYSTEMS

ACCESSORIES

RS232/485 item no. 80IT1410121

Interface for master/slave and remote panel

ITB500 item no. 80IT1710121

Bathroom pull-cord interface

The bathroom pull-cord interface can connect a pull-cord switch installed in hotel room 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 4-20 mA gas detector.

The module operates with multiple thresholds; alarm thresholds can be selected using DIP switches or programmed from the control unit.

The interface can be set to generate an alarm condition for either excess or deficiency of gas.

✓ Certified EN54 part 17 and part 18 N. 0051CPR-1296

LAN/TCP/IP500 item no. 80IT1510121

LAN/TCP/IP interface

✓ Allows several FAP500 control units to be connected over a LAN

✓ Certified EN54 part 21 N. 0051CPR-1503



IT500F CLOUD item no. 80IT3110121

Ethernet and Wi-Fi IP interface

The IT500F CLOUD interface communicates with FAP54 EVO digital control units. It allows fire control units to connect to the Internet and interact through the My Elkrone Family app.

The device can be configured (network parameters, etc.) either via the app during commissioning or using the new SOFT/FAP500A configuration software.



SOFT/FAP500A item no. 80SW3700121

Configuration software

New graphic interface and management features for the configuration software. It can acquire system characteristics by reading control unit data and can download and program the configuration and parameters of each individual point. It can be used with all FAP54 control units.

IPERFIRE item no. 80SW6300121

Supervision and graphic-map software

IperFire is the new basic client/server supervision software developed to enable integration and centralised control of fire detection systems up to a maximum of 256 points*. Wizard-guided installation.

*For systems with more points or more control units, contact our customer service.

DIGITAL SYSTEMS

ACCESSORIES

CT14-F item no. 80CT8000121

Communication interface 4G/IP EN54-21

The CT14-F communicator is alarm transmission and fault signalling equipment for fire detection systems. It is an optional module that adds 2G/3G/4G connectivity (LTE CAT1 voice and data) and/or IP Ethernet/Wi-Fi to FAP54 series control units (firmware version 22 or later), enabling remote reporting of alarm, fault and service events.



All communicator parameters are programmed using the SOFT/FAP500A configuration software.

The communicator can operate in the following modes:

- ✓voice and SMS communication via 2G/3G/4G mobile network to a telephone user.
- ✓Data communication over a 2G/3G/4G mobile network and/or LAN (Ethernet or Wi-Fi) to a management centre using receivers compliant with the IDP-IP communication standard (SIA DC-09), or to a management app installed on a smartphone and/or tablet.

The communicator also has 3 inputs for monitoring contacts external to the control unit and 3 outputs for signalling specific control unit functions externally.

- ✓Communication channels: Ethernet, 2G, 3G, 4G
- ✓ Automatic backup function to restore communication between Ethernet/Wi-Fi and 2G/3G/4G mobile communication paths
- ✓DTMF code reception over the mobile voice network, sent by the user to confirm alarm receipt and terminate the call
- ✓Transmission of active control unit event signals, including:
 - Alarm 1 and Alarm 2 - General and field faults - Detection line enable/disable
 - Zone enable/disable - Maintenance required
- ✓Transmission of communicator events:
 - Input activation -
 - Output activation
- ✓12 telephone numbers freely assignable to control unit events and programmable inputs
- ✓Communication management with priority for alarm events
- ✓Sequential voice-call cycle to programmed numbers, with programmable repetition and stop option
- ✓3 programmable auxiliary NC/NO inputs referenced to positive/negative for technological functions
- ✓3 programmable auxiliary open-collector outputs referenced to positive/negative for technological functions
- ✓Certified EN54 part 21

DIGITAL SYSTEMS

PHOTO-OPTICAL SMOKE DETECTOR

FDO500 item no. 80SD4800121

Low-profile photo-optical smoke detector, complete with self-learning circuit and short-circuit isolator

Smoke detectors operate on the light-scattering principle caused by smoke particles in the air (Tyndall effect). The detector features automatic gain control; a microcontroller calculates reading compensation to maintain constant sensitivity over time, correcting any increase in level caused by dust deposits inside the sensing chamber. Smoke detectors must be installed where there are no air currents that could divert the flow of particles produced by combustion and where normal activities do not generate fires involving gaseous materials.



- ✓Power supply voltage: 20 Vdc (modulated voltage from -15% to +10%)
- ✓Average standby current consumption: 250 uA @ 20 Vcc
- ✓Alarm current consumption: 2 mA @ 20 Vcc
- ✓Two-colour LED: red = alarm, green = normal operation
- ✓Max. relative humidity: 93%
- ✓Operating temperature: 0 ÷ +50 °C
- ✓Weight: 70 g
- ✓Dimensions (ø x H): 90 x 31 mm
- ✓Certified EN54 part 7 and part 17, N.1293-CPD-0138

HEAT DETECTOR

FDT500 item no. 80SD5700121

Low-profile heat detector, complete with self-learning circuit and short-circuit isolator

Heat detectors monitor the temperature in the area where they are installed. A microcontroller analyses and compares the signal received from a precision NTC temperature sensor, activating the alarm if the temperature exceeds 58 °C.



- ✓Power supply voltage: 20 Vdc (modulated voltage from -15% to +10%)
- ✓Average standby current consumption: 250 uA @ 20 Vcc
- ✓Alarm current consumption: 2 mA @ 20 Vcc
- ✓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 x H): 90 x 40 mm
- ✓Certified EN54 part 5 and part 17, N.1293- CPD-0140

DIGITAL SYSTEMS

RATE-OF-RISE HEAT DETECTOR

FDTD500 item no. 80SD9000121

Low-profile rate-of-rise heat detector, complete with self-learning circuit and short-circuit isolator

Rate-of-rise heat detectors monitor temperature increases in the area where they are installed. A microcontroller analyses and compares the signal received from a precision NTC temperature sensor, activating the alarm if the temperature rise exceeds 5 °C per minute.

- ✓ Power supply voltage: 20 Vdc (modulated voltage from -15% to +10%)
- ✓ Average standby current consumption: 250 uA @ 20 Vcc
- ✓ Alarm current consumption: 2mA @ 20 Vcc
- ✓ 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 x H): 90 x 40 mm
- ✓ Certified to EN54 Part 5 Class A1R and Part 17, No. 1293-CPD-0141



OPTICAL-HEAT DETECTOR

FDOT500 item no. 80SD9K00121

Low-profile optical-heat detector, complete with self-learning circuit and short-circuit isolator

Combined dual-technology (smoke-heat) detectors operate using the light-scattering principle caused by smoke particles in the air (Tyndall effect) and by monitoring the temperature in the area where they are installed. A microcontroller analyses and compares the signal received from a precision NTC temperature sensor, activating the alarm if the temperature exceeds 58 °C. The detector features automatic gain control; a microcontroller calculates reading compensation to maintain constant sensitivity over time.

- ✓ Power supply voltage: 20 Vdc (modulated voltage from -15% to +10%)
- ✓ Average standby current consumption: 250 uA @ 20 Vcc
- ✓ Alarm current consumption: 2mA @ 20 Vcc
- ✓ 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 x H): 90 x 40 mm
- ✓ Certified to EN54 Part 5 Class A1, Part 7 and Part 17, No. 1293-CPD-0139



DETECTOR TEST ACCESSORIES

DBS item no. 80SD9H10123

Test aerosol for checking smoke detectors

MANUAL CALL POINTS

Resettable manual call point, complete with self-learning circuit and short-circuit isolator



- ✓ Power supply voltage: 20 Vdc (modulated voltage -15% to +10%); Average standby current consumption: 250 ·A @ 20 Vdc; Average alarm current consumption: 2 mA @ 20 Vdc; Two-colour LED: red = alarm, green = normal
- ✓ operation; Max. relative humidity: 93%; Operating temperature: -10 °C to +55 °C; Enclosure material: ABS class VO; Weight: 140 g; Dimensions (W x H x D): 110 x 110 x 42 mm
- ✓
- ✓
- ✓
- ✓
- ✓
- ✓
- ✓ Certified EN54 part 11 and part 17: N. 1293-CPD-O337

Break-glass manual call point, complete with self-learning circuit and short-circuit isolator

Fire alarm call points are used to manually signal an alarm. For the break-glass model, press the centre of the glass; the front element breaks and automatically activates the alarm switch. To restore operation, open the call point and replace the glass (item no. V435-445).

- ✓ Power supply voltage: 20 Vdc (modulated voltage -15% to +10%); Average standby current consumption: 250 ·A @ 20 Vdc; Average alarm current consumption: 2 mA @ 20 Vdc; Two-colour LED: red = alarm, green = normal
- ✓ operation; Max. relative humidity: 93%; Operating temperature: -10 °C to +55 °C; Enclosure material: ABS class VO; Weight: 140 g; Dimensions (W x H x D): 110 x 110 x 42 mm
- ✓
- ✓
- ✓
- ✓
- ✓
- ✓ Certified EN54 part 11 and part 17: N. 1293-CPD-O338

DIGITAL SYSTEMS

MANUAL CALL POINTS

BACK BOX item no. 80SB7410121

Back box for manual call points

The back box is an accessory for manual call points P440, P445, FM500 and FMR500 listed in the catalogue. It is used to simplify installation in industrial environments with surface-mounted conduit.



V435-445 item no. 80SB4810121

Replacement glass for manual call points P445 and FMR500

V430-440 item no. 80SB6810121

Replacement glass for manual call points to resettable P440 and FM500

CTS03 item no. 80FH8000123

Alarm call point location sign

- ✓Aluminium sign
- ✓FIRE ALARM wording
- ✓Dimensions: 160 x 210 mm



item no. 80SB7510121

Protective cover for call points

Compatible with manual call points P440 - P445 - FM500 and FMR500.

- ✓Material: transparent polycarbonate
- ✓Opening angle: 180°
- ✓Dimensions (L x H x P): 114 x 110 x 10 mm
- ✓Weight: 28 g

UNIVERSAL BASES

DETECTOR BASES

SD500 item no. 80SD4K00121

Standard base

The base is common to all FAP500 series digital detectors and all Series 400 conventional detectors.

- ✓•Material: ABS
- ✓•Colour: white
- ✓•Dimensions: $\varnothing$ 90 mm



SD500R item no. 80SD5K00121

Standard base with alarm repetition output for FAP500 series digital detectors

The base is common to all FAP500 series digital detectors; its output can directly drive a remote indicator.

- ✓•Material: ABS
- ✓•Colour: white
- ✓•Dimensions: $\varnothing$ 90 mm
- ✓•Alarm repeater output: 12 mA @ 24 Vcc

SD515 item no. 80SD2V00121

Back box

SD500RL item no. 80SD1W00121

Standard base with relay output

The base is common to all Series 400 conventional detectors and all FAP500 series digital detectors; its relay output can drive a remote indicator (auxiliary power supply required).

- ✓•Voltage-free relay output: 1 A @ 30 V
- ✓•Material: ABS
- ✓•Colour: WHITE
- ✓•Dimensions: $\varnothing$ 90 mm

COMPLETE DUCT DETECTION BOX WITH SD500R BASE

R/820 item no. 80SD3L10121

Duct smoke detection chamber

The duct detection chamber is designed to monitor the presence of smoke in air ducts and detect the spread of a fire at an early stage. Both digital and conventional smoke detectors can be installed inside the chamber. The SD500R connection base is installed inside the chamber.



- ✓•Thermoplastic enclosure with a Plexiglas window in the cover for visual inspection of the detector's local alarm indicator
- ✓•Two 500 mm PVC probes
- ✓•Dimensions (L x H x P): 168 x 220 x 105 mm



EXTINGUISHING SYSTEMS



FIRE

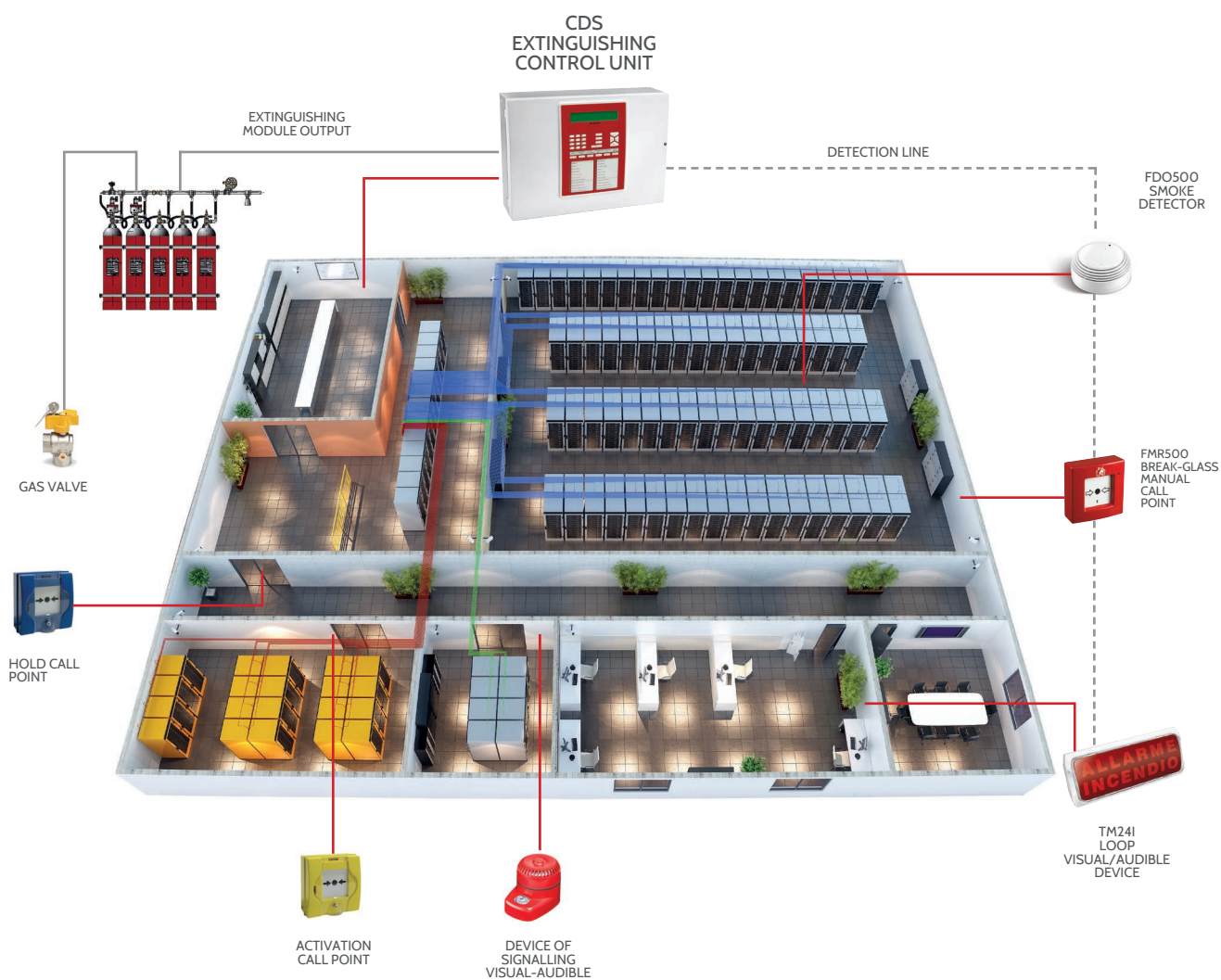
In special facilities, the fire detection system must be complemented by dedicated extinguishing systems, for example aerosol or inert-gas extinguishing systems. These systems are activated through the extinguishing control unit.



EXTINGUISHING SYSTEMS

The CDS extinguishing control unit is a non-expandable 1-loop microprocessor control unit that shares all FAP500 system devices and also includes an extinguishing module internally, expandable to 2 channels.

The CDS is designed in compliance with EN 12094-1 and EN54 Parts 2 and 4.
Certification number: 0051-CPR-0177.



EXTINGUISHING SYSTEMS

CDS CONTROL PANEL

CDS item no. 80SC3600121

1-channel extinguishing control unit expandable to 2

Compliant with standards EN12094-1 and EN54 part 2-4 N. 0051-CPR-0177.

Extinguishing module features

- ✓•Flow-switch input
- ✓•Pressure-switch input
- ✓•Emergency hold input
- ✓•Manual extinguishing discharge activation input
- ✓•Extinguishing discharge activation input from external control panel
- ✓•Discharge-in-progress relay (NO or NC contact, 1 A max)
- ✓•Emergency hold relay (NO or NC contact, 1 A max.)
- ✓•Evacuation sounder output (250 mA max.)
- ✓•Release output 1 (pilot solenoid, 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)
- ✓•Can manage up to 128 points for loop
- ✓•Automatic device learning and logical point addressing
- ✓•4 x 40-character backlit display
- ✓•Event log: 1,000 events
- ✓•Event history viewable directly on the display
- ✓•10 programmable passwords on 3 levels
- ✓•480 programmable zones
- ✓•USB port for local PC connection and software programming
- ✓•Possibility to monitor detector sensitivity and contamination percentage
- ✓•Non-volatile memory
- ✓•Control-panel outputs: 4 [sounder relay, alarm relay, fault relay, programmable relay (mains failure/disablement)]
- ✓•Individual point/zone/line disablement
- ✓•Power supply: 230 Vac
- ✓•Maximum output current: 1.5Ah 24V
- ✓•Battery charge limitation and condition monitoring
- ✓•Battery housing: 2 x 12 V 12 Ah batteries
- ✓•Maximum loop length: 2 km with shielded 2 x 1.5 mm² cable
- ✓•Immunity to interference up to 10 V/m
- ✓•Common communication protocol for all system control units
- ✓•Dimensions (L x H x P): 490 x 350 x 145 mm

EXPANSION

ESPCDS item no. 80SC3510121

1-channel expansion for extinguishing control unit





STAND-ALONE WIRELESS SYSTEMS



FIRE

The Elcron wireless system is an excellent solution for installations where laying cables to connect sensors is difficult or excessively costly. This solution makes it possible to add a series of wireless devices to a wired fire detection system without the need for cabling.



GAS DETECTION

SPECIAL DETECTORS

WIRELESS SYSTEM

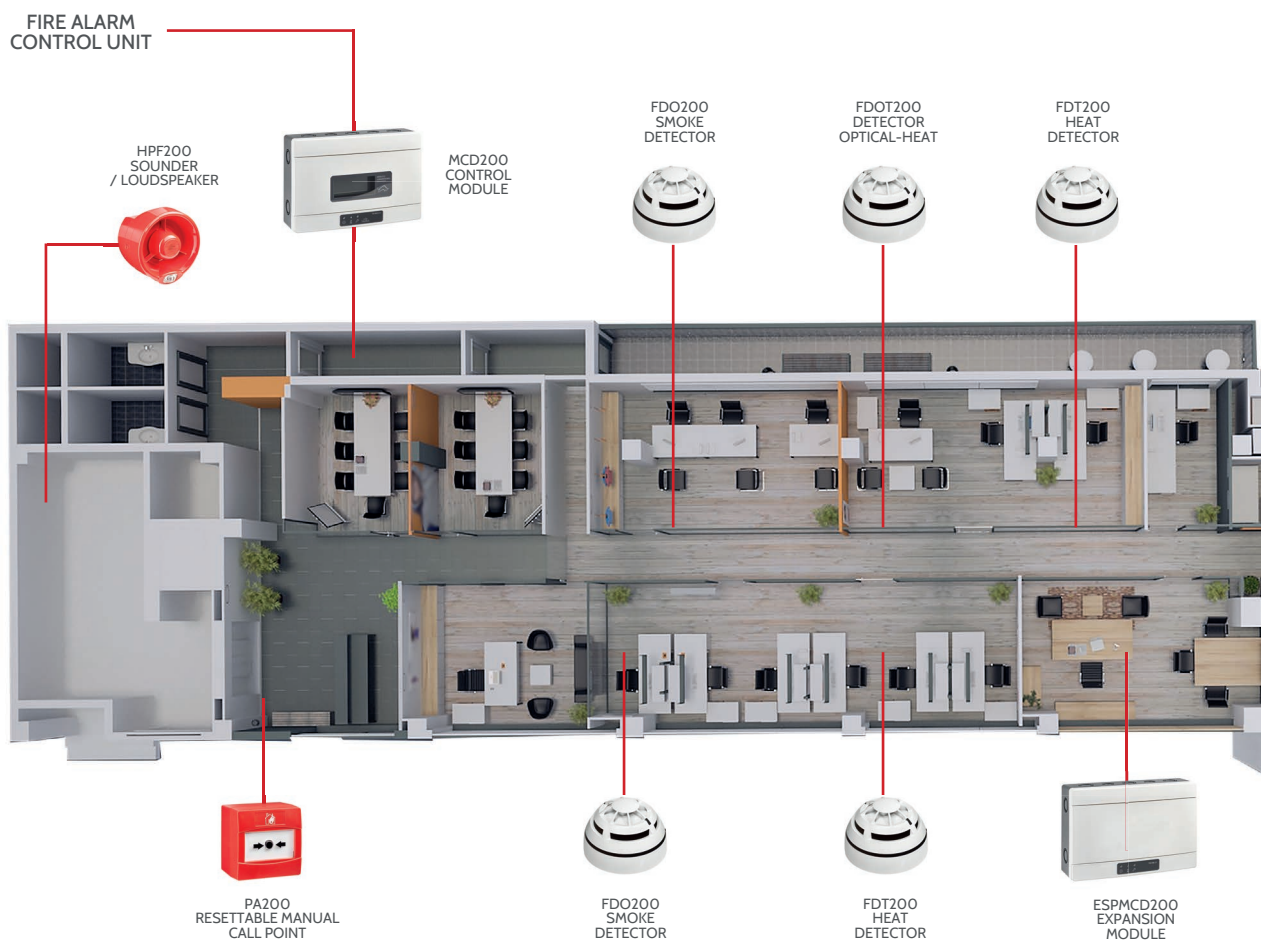
STAND-ALONE WIRELESS SYSTEM

The wireless solution makes it possible to add a series of wireless devices to a wired fire detection system without the need for cabling.

This is made possible by a wired/wireless interface: the MCD200 module, which is the system control unit.

The MCD200 control unit can be connected either to a conventional fire detection system, directly through the current-absorbing line, or to a FAP digital fire detection system through the MC500 module.

Radio communication between the MCD200 module and its accessories uses a bidirectional protocol at 868 MHz.



STAND-ALONE WIRELESS SYSTEM

CONTROL UNIT

MCD200 item no. 80IT0310123

Wired/wireless interface with display

The wired/ wireless interface enables wireless detection and alarm devices to be integrated with any type of digital or conventional system. Acting as a concentrator module, the interface has a display compliant with UNI 9795, allowing alarm and fault indications to be viewed directly.



Wireless detection and alarm devices connect to the interface by self-learning, simply by scanning the QR code. They are fully monitored for alarms and faults, maintaining the highest levels of safety and reliability.

- ✓Power supply: 9 Vdc - 30 Vdc
- ✓Bidirectional wireless communication
- ✓Operating frequency: 868 - 870 MHz
- ✓8 infrastructure channel pairs
- ✓Dual-channel redundancy
- ✓Maximum output power: 14 dBm (25 mW)
- ✓Typical current load: 40 mA (@12 Vdc)
- ✓Can be connected to a maximum of 15 expanders (ref. ESPMCD200)
- ✓Maximum number of wireless devices: 32
- ✓Device monitoring for alarms and faults
- ✓Range up to 1000 m in free air
- ✓Programmable via internal keypad or PC connection, wireless or wired
- ✓Intuitive programming options: "easy scan" e "link"
- ✓Operating temperature: da -10 °C a +55 °C
- ✓Protection rating: IP65
- ✓Weight: 700 g
- ✓Dimensions (L x H x P): 235 x 160 x 70 mm
- ✓Certified to EN54-18 and EN54-25
- ✓Compliant with UNI 9795 specifications, paragraph 5.4.11.4

STAND-ALONE WIRELESS SYSTEM

CONTROL UNIT

ESPMCD200 item no. 80SC8A10123

Wireless expansion for the MCD200 interface

The ESPMCD200 expansion module is used to extend the wireless communication range of the MCD200 interface or to add further wireless devices to the system.

It is also particularly useful in environments where physical obstacles obstruct normal long-range wireless communications, ensuring radio-signal retransmission. Wireless expansion modules can be programmed to provide a redundant path to the control interface.

Redundant paths are identified and tested automatically by the system during commissioning, making the infrastructure extremely reliable. All wireless communications use a dual pair of channels to avoid radio-frequency traffic and ensure maximum connection reliability.



- ✓Power supply: 9 Vdc - 30 Vdc
- ✓Bidirectional wireless communication
- ✓Operating frequency: 868 - 870 MHz
- ✓8 infrastructure channel pairs
- ✓Dual-channel redundancy
- ✓Maximum output power: 14 dBm (25 mW)
- ✓Typical current load: 24 mA (@12 Vdc)
- ✓Maximum number of wireless devices: 32
- ✓Range up to 1000 m in free air
- ✓Intuitive programming options: "easy scan" e "link"
- ✓Operating temperature: da -10 °C a +55 °C
- ✓Protection rating: IP65
- ✓Weight: 700 g
- ✓Dimensions (L x H x P): 235 x 160 x 70 mm
- ✓EN54-18 and EN54-25 certification

STAND-ALONE WIRELESS SYSTEM

DETECTORS

FDO200 item no. 80SD4Z00123

Wireless smoke detector complete with base and batteries

The smoke detector continuously monitors the air in the protected area so that a fire alarm can be generated immediately. It features a dual-angle optical sensing chamber and sophisticated algorithms that process the radio signal to ensure maximum safety and reliability. The algorithm optimises both detection and the discrimination of unwanted alarms. A magnet built into the detector allows an alarm-state simulation test to verify correct communication and device operation.



- ✓ Bidirectional wireless communication
- ✓ Operating frequency: 868 - 870 MHz
- ✓ Dual-channel redundancy
- ✓ Maximum output power: 14 dBm (25 mW)
- ✓ Lithium batteries supplied, CR123A (3 V - 1.25 A)
- ✓ Battery life: 10 years under normal operating conditions.
- ✓ Dual-angle optical sensing chamber
- ✓ Status indication with three-colour LED (green, amber and red)
- ✓ Radio communication range with wireless devices: up to 200 m in free air
- ✓ Quick test function for technical tests
- ✓ Intuitive programming options: "easy scan" e "link"
- ✓ Security screw to prevent tampering and unauthorised removal
- ✓ Operating temperature: da -10 °C a +55 °C
- ✓ Protection rating: IP40
- ✓ Weight: 155 g (without batteries)
- ✓ Dimensions (Ø x H): 110 x 70 mm
- ✓ Certified to EN54-7 and EN54-25

STAND-ALONE WIRELESS SYSTEM

DETECTORS

FDOT200 item no. 80SD6Z00123

Wireless optical-heat detector complete with base and batteries

The optical-heat detector analyses the air and temperature in the protected area so that a fire alarm can be generated immediately. The alarm condition occurs when:

- ✓the amount of smoke in the optical chamber exceeds the alarm threshold
- ✓the temperature or temperature change over a given period exceeds the alarm threshold

Sophisticated radio-signal processing algorithms ensure maximum safety and reliability. A magnet built into the detector allows an alarm-state simulation test to verify correct communication and device operation.

- ✓Bidirectional wireless communication
- ✓Operating frequency: 868 - 870 MHz
- ✓Dual-channel redundancy
- ✓Maximum output power: 14 dBm (25 mW)
- ✓Lithium batteries supplied, CR123A (3 V - 1.25 A)
- ✓Battery life: 10 years under normal operating conditions
- ✓Status indication with three-colour LED (green, amber and red)
- ✓Drift compensation
- ✓Radio communication range with wireless devices: up to 200 m in free air
- ✓Quick test function for technical tests
- ✓Intuitive programming options: "easy scan" e "link"
- ✓Security screw to prevent tampering and unauthorised removal
- ✓Protection rating: IP40
- ✓Weight: 155 g (without batteries)
- ✓Dimensions (Ø x H): 110 x 70 mm
- ✓Certified to EN54-5, EN54-7 and EN54-25



STAND-ALONE WIRELESS SYSTEM

DETECTORS

FDT200 item no. 80SD5Z00123

Wireless heat detector complete with base and batteries

The heat detector continuously samples the temperature in the protected area so that a fire alarm can be generated promptly. The device can be configured as a high-temperature or rate-of-rise sensor. Sophisticated radio-signal processing algorithms ensure maximum safety and reliability. A magnet built into the detector allows an alarm-state simulation test to verify correct communication and device operation.



- ✓•Bidirectional wireless communication
- ✓•Operating frequency: 868 - 870 MHz
- ✓•Dual-channel redundancy
- ✓•Maximum output power: 14 dBm (25 mW)
- ✓•Lithium batteries supplied, CR123A (3 V - 1.25 A)
- ✓•Battery life: 10 years under normal operating conditions
- ✓•Programmable as Class A1R (58 °C max.) or high-temperature Class BS (78 °C)
- ✓•Status indication with three-colour LED (green, amber and red)
- ✓•Radio communication range with wireless devices: up to 200 m in free air
- ✓•Quick test function for technical tests
- ✓•Intuitive programming options: "easy scan" e "link"
- ✓•Security screw to prevent tampering and unauthorised removal
- ✓•Protection rating: IP40
- ✓•Weight: 155 g (without batteries)
- ✓•Dimensions (Ø x H): 110 x 70 mm
- ✓•Certified to EN54-5 and EN54-25

STAND-ALONE WIRELESS SYSTEM

MANUAL CALL POINTS

PA200 item no. 80SB6400123

Resettable manual call point wireless complete of batteries

The resettable manual call point generates an alarm condition when the front of the device is pressed. It is resettable and, after activation, can be restored simply by using the key supplied. The product is powered by two CR123A lithium batteries with a typical life of 10 years.



- ✓ Bidirectional wireless communication
- ✓ Operating frequency: 868 - 870 MHz
- ✓ Dual-channel redundancy
- ✓ Maximum output power: 14 dBm (25 mW)
- ✓ Lithium batteries supplied, CR123A (3 V - 1.25 A)
- ✓ Battery life: 10 years under normal operating conditions
- ✓ Radio communication range with wireless devices: up to 200 m in free air
- ✓ Status display with LED indication
- ✓ Intuitive programming options: "easy scan" e "link"
- ✓ Operating temperature: - 10 °C + 55 °C
- ✓ Protection rating: IP42
- ✓ Weight: 160 g (without batteries)
- ✓ Dimensions (L x H x P): 88 x 87 x 61 mm
- ✓ Certified to EN54-11 and EN54-25

STAND-ALONE WIRELESS SYSTEM

ACTUATORS

HPF200 item no. 80HS2500123

Sounder with flashing beacon, complete with wireless module and batteries

The sounder is a wall-mounted audible device with flashing beacon, powered and managed by a control module for wireless communication with the MCD200 system interface.

The device offers 3 volume levels and 32 recognised tones, which can be set through the control module or locally on the sounder. Sophisticated radio-signal processing algorithms ensure maximum safety and reliability.

- ✓ Bidirectional wireless communication
- ✓ Operating frequency: 868 - 870 MHz
- ✓ Dual-channel redundancy
- ✓ Maximum output power: 14 dBm (25 mW)
- ✓ 32 selectable tones (primary and secondary, for alarm and evacuation), selectable by DIP switches on the device
- ✓ Sound level: 100 dB
- ✓ Volume can be set on the device
- ✓ Lithium batteries supplied, CR123A (3 V - 1.25 A)
- ✓ Battery life: 5 years under normal operating conditions
- ✓ Radio communication range with wireless devices: up to 200 m in free air
- ✓ Protection rating: IP65
- ✓ Operating temperature: - 10 °C + 55 °C
- ✓ Weight: 350 g (without batteries)
- ✓ Intuitive programming options: "easy scan" e "link"
- ✓ Dimensions (L x H x P): 126 x 132 x 90 mm
- ✓ Certified to EN54-3, EN54-23 and EN54-25



IND200 item no. 80SR1400123

Wireless remote visual indicator complete with batteries

The wireless remote indicator is a compact signalling device activated by the control interface in the event of alarm, fault or emergency conditions.

- ✓ Bidirectional wireless communication
- ✓ Operating frequency: 868 - 870 MHz
- ✓ Dual-channel redundancy
- ✓ Maximum output power: 14 dBm (25 mW)
- ✓ Lithium batteries supplied, CR123A (3 V - 1.25 A)
- ✓ Battery life: 5 years under normal operating conditions
- ✓ Radio communication range with wireless devices: up to 200 m in free air
- ✓ Status display with LED indication
- ✓ Operating temperature: - 10 °C + 55 °C
- ✓ Weight: 60 g (without batteries)
- ✓ Intuitive programming options: "easy scan" e "link"
- ✓ Dimensions (L x H x P): 80 x 80 x 32 mm





GAS DETECTION



FIRE

Elkron gas-leak detection control units are a benchmark not only for their highly versatile installation options but above all for the wide selection of detectors available. They are extremely safe, thanks also to an advanced self-diagnostic and monitoring system.

GAS DETECTION

EVAAC SYSTEMS

GAS DETECTION

GAS DETECTION CONTROL UNITS

STSX4+ item no. 80SC1T00123*

DIN-rail gas control unit for boiler rooms

- ✓ Ideal for residential and civil applications, this control unit can manage up to 4 gas detectors with 4-20 mA transmission for both toxic and flammable gases
- ✓ Power supply: 100-240 Vac, 50/60 Hz
- ✓ Current consumption max: 11 W
- ✓ Inputs: 4
- ✓ Outputs: 4 (pre-alarm, alarm, fault and over-range)
- ✓ Test/Reset button
- ✓ Contact rating: 5 A @ 230 Vac
- ✓ Operating temperature: -10 °C to +50 °C
- ✓ Dimensions: DIN-EN50022



ST/PL4 item no. 80SC6R00123*

Gas detection control unit allowing connection of a minimum of 4 and a maximum of 8 flammable-gas, toxic-gas or oxygen detectors with proportional 4-20 mA output

- ✓ For each input it is possible to set the detector type, the appropriate measurement range and the alarm-level values
- ✓ Measured concentration values are shown on a backlit LCD display
- ✓ The control unit has 4 relay outputs associated with Fault, Alarm 1, Alarm 2 and Alarm 3, plus 1 auxiliary output that can be associated with one of the four preceding states
- ✓ Adding the optional ST/PL4/ESP module provides 16 open-collector outputs in addition to the 4 inputs
- ✓ Display: 2-line, 16-character backlit LCD
- ✓ Power supply: 230 Vac
- ✓ Current consumption: 80 mA standby, 160 mA alarm, 240 mA with expansion board
- ✓ Relay outputs: 1 A @ 24 Vdc, 5 A @ 24 Vdc (AUX relay)
- ✓ Relative temperature: 0 °C ÷ +40 °C
- ✓ Relative humidity: 15-85% non-condensing
- ✓ Housing: metal box
- ✓ Dimensions (H x L x P): 225 x 360 x 110 mm



ST/PL4/ESP item no. 80SC7R10123*

Expansion module for 4 inputs and 16 O.C. outputs configurable for Alarm 2 or Alarm 3 on ST/PL4 control unit

- ✓ Outputs Or.C. 250 mA

*On request

GAS DETECTION

GAS DETECTION CONTROL UNITS

STMTS/8+ item no. 80SC8S00123

8-input gas detection control unit expandable to 16

The gas detection control unit can manage 8 detectors with 4-20 mA outputs directly from the main board and a further 8 detectors via the optional STG/IN8-S module.

The control unit includes a USB port and RS232 serial port for PC connection. It is compatible with the entire range of detectors in the catalogue.

- ✓Power supply: 230 Vac
- ✓Current consumption: max. 1,5A
- ✓8 inputs expandable to 16 (via optional STG/IN8-S module)
- ✓6 outputs relay
- ✓Relay contact rating: 10 A @ 250 V
- ✓1 RS232 serial port (PC connection)
- ✓LCD display
- ✓Event memory
- ✓Recommended batteries: 2 x 12 V @ 7 Ah batteries
- ✓Enclosure in ABS



ST.MTS/S1-256B item no. 80SC8R00123*

Gas detection control unit allowing connection of a minimum of 8 and a maximum of 256 detectors for flammable or toxic gases or oxygen, with proportional 4-20 mA output.

- ✓Connection is via optional remote concentrators arranged on an RS485 serial line
- ✓The control unit has 4 on-board output relays for field interfacing and 4 open-collector outputs
- ✓The control unit can be configured with different detectors, both by gas detected and by activation threshold
- ✓Both explosive-gas and toxic-gas detectors can be configured
- ✓The control unit can store up to 800 events
- ✓Display: 256 x 64-dot backlit LCD
- ✓Power supply: 230 Vac
- ✓Expandability: up to 64 O.C. outputs with 8 optional STG/OUT16-S modules
- ✓Relative temperature: 0 °C ÷ +40 °C
- ✓Relative humidity: 15-85% non-condensing
- ✓Housing: metal box
- ✓Dimensions (L x H x P): 470 x 426 x 148 mm



*On request

GAS DETECTION

ACCESSORIES

STG/IN8-S item no. 80SC9R10123*

8-input expansion for ST.MTS/S1-256B control unit

STG/OUT16-S item no. 80SC1S10123*

Expansion module with 16 outputs for control panel ST.MTS/S1-256B

ST/S3REL item no. 80SC5R10123*

Three-relay board for gas detectors

- ✓ Provides voltage-free contacts
- ✓ The first output is associated with fault or Watch-Dog
- ✓ The second output can be associated with detector Alarm 1 or Alarm 2
- ✓ The third output can be associated with detector Alarm 2 or Alarm 3
- ✓ Relay contact rating: 50 mA @ 24 Vdc; 100 mA @ 12 Vdc

EXPLOSIVE AND TOXIC GAS DETECTORS

Gas detectors are used to detect combustible substances at concentrations expressed as a percentage of the Lower Explosive Limit (%LEL), toxic substances expressed in parts per million (ppm), and oxygen deficiency or excess. A catalytic sensor is used for explosive-mixture detectors, while toxic-gas detectors use an electrochemical-cell sensor. The detectors provide a proportional current output (4-20 mA) or relay contacts through an optional board.

EX II 3GD GAS DETECTORS

Main features

- ✓ Power supply: 12-24 Vdc, -20% / +15%
- ✓ Auto-zero procedure: compensation of zero drift
- ✓ Visual indications: flashing LED
- ✓ Accuracy: $\pm 10\%$ of reading
- ✓ Warm-up time: 5 minutes
- ✓ Stabilisation time: < 2 minutes
- ✓ Response time: < 15 s T50; < 25 s T90 (flammable-gas version)
- ✓ Air velocity: < 6 m/s
- ✓ Digital filter: moving averages of acquired values
- ✓ Resolution: 1,024 points
- ✓ Protection rating: IP55
- ✓ Weight: 350 g
- ✓ Dimensions (L x H x P): 106 x 170 x 65 mm
- ✓ Reference standards: EN50014 EN50018 EN50021 (essential EEx-n safety requirements) / EN61779-1/4 (performance)
- ✓ Marcatura ATEX: CE 722 Ex II 3GD Ex nA d IIC T6 IP55 T85 °C



For any other type of gas detector, contact customer service

*On request

GAS DETECTION

EX II 3GD GAS DETECTORS

S2396VB item no. 80SD2T00123*

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

- ✓Catalytic sensor: Nemoto
- ✓Current consumption: 130 mA @ 12 Vcc

S1450CO item no. 80SD7T00123*

Carbon monoxide detector 4-20 mA, 0-300 ppm

- ✓Electrochemical-cell sensor
- ✓Current consumption: 30 mA @ 12 Vcc

S2096ME item no. 80SD9S00123*

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

- ✓Catalytic sensor: Nemoto
- ✓Current consumption: 130 mA @ 12 Vcc

S2096GP item no. 80SD4T00123*

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

- ✓Catalytic sensor: Nemoto
- ✓Current consumption: 130 mA @ 12 Vcc

EX II 2GD GAS DETECTORS

Main features

- ✓Power supply: 12-24 Vdc, -20% / +15%
- ✓Auto-zero procedure: compensation of zero drift
- ✓Visual indications: flashing LED
- ✓Accuracy: ±10% of reading
- ✓Warm-up time: 5 minutes
- ✓Stabilisation time: < 2 minutes
- ✓Response time: < 15 s T50; < 25 s T90 (flammable-gas version)
- ✓Air velocity: < 6 m/s
- ✓Digital filter: moving averages of acquired values
- ✓Resolution: 1,024 points
- ✓Protection rating: IP66
- ✓Weight: 950 g
- ✓Dimensions (L x H x P): 110 x 135 x 80 mm
- ✓Reference standards: EN50014 EN50018 EN50021 (essential EEx-n safety requirements) / EN61779-1/4 (performance)
- ✓CE 722 Ex II 2GD Ex d IIC Ex tD A21 IP65 T85 °C



For any other type of gas detector, contact customer service

*On request

GAS DETECTION

EX II 2GD GAS DETECTORS

S2097VB item no. 80SD1U00123*

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

- ✓Catalytic sensor: Nemoto
- ✓Current consumption: 130 mA 12 Vcc

S2097ME item no. 80SD9T00123*

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

- ✓Catalytic sensor: Nemoto
- ✓Current consumption: 130 mA @ 12 Vcc

S2131CO item no. 80SD5U00123*

Carbon monoxide detector 4-20 mA, 0-300 ppm

- ✓Electrochemical-cell sensor
- ✓Current consumption: 30 mA @ 12 Vcc

S2097GP item no. 80SD2U00123*

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

- ✓Catalytic sensor: Nemoto
- ✓Current consumption: 130 mA @ 12 Vcc

GAS DETECTORS FOR RESIDENTIAL USE

item no. 80SD2E00123

Methane gas detector for residential use.
230 Vac power supply.

Methane gas detector ideal for installation in residential environments. It signals the presence of gas leaks in the area where it is installed by means of visual and audible alarms. It has a relay output for controlling a solenoid valve. The detector is also designed so that the sensing head can be replaced at the end of its service life (5 years).



- ✓Power supply: 230 Vac, 50÷60 Hz
- ✓Current consumption: 20 mA max a 230Vca
- ✓Alarm threshold: 10% L.E.L.
- ✓Sensor: catalytic
- ✓Service life: 5 years
- ✓Alarm: visual (red LED) and audible (internal buzzer, 85 dBA at 1 m)
- ✓Protection rating: IP42
- ✓Compliance: EN 50194

For any other type of gas detector, contact customer service

*On request

GAS DETECTION

GAS DETECTORS FOR RESIDENTIAL USE

item no. 80SD2F00123

LPG gas detector for residential use. 230 Vac power supply.

LPG gas detector ideal for installation in residential environments. It signals the presence of gas leaks in the area where it is installed by means of visual and audible alarms. It has a relay output for controlling a solenoid valve. The detector is also designed so that the sensing head can be replaced at the end of its service life (5 years).



- ✓Power supply: 230 Vac, 50÷60 Hz
- ✓Current consumption: 20 mA max a 230Vca
- ✓Alarm threshold: 10% L.E.L.
- ✓Sensor: catalytic
- ✓Service life: 5 years
- ✓Alarm: visual (red LED) and audible (internal buzzer, 85 dBA at 1 m)
- ✓Protection rating: IP42
- ✓Compliance: EN 50194

item no. 80SD2G00123

Carbon monoxide detector for residential use.
230 Vac power supply.

Carbon monoxide detector ideal for installation in residential environments. Visual and audible signals warn of the presence of carbon monoxide in the area where the detector is installed. It has a voltage-free relay that can be used, for example, to stop a boiler, activate ventilation or trigger an external alarm. The electrochemical cell has a service life of 6 years.



- ✓Power supply: 230 Vac, 50÷60 Hz / 12 Vdc
- ✓Current consumption: 3VA a 230Vca
- ✓Activation threshold: 50 ppm for 70 min - 100 ppm for 20 min - 300 ppm for 1 min
- ✓Sensor: electrochemical cell
- ✓Service life: 6 years
- ✓Alarm: visual (red LED) and audible (internal buzzer, 85 dBA at 1 m)
- ✓Protection rating: IP42
- ✓Compliance: EN 50291

item no. 80SD2H00123

Battery-powered carbon monoxide detector
for residential use.

Carbon monoxide detectors ideal for installation in residential environments. Visual and audible signals warn of the presence of carbon monoxide in the area where they are installed. The electrochemical cell has a service life of 6 years. Lithium battery supplied.



- ✓Power supply: CR123A lithium battery - 1400 mAh
- ✓Activation threshold: 50 ppm for 70 min - 100 ppm for 20 min - 300 ppm for 1 min
- ✓Sensor: electrochemical cell
- ✓Operating temperature: -10 °C to +45 °C
- ✓Service life: 6 years
- ✓Alarm: visual (red LED) and audible (internal buzzer, 85 dBA at 1 m)
- ✓Protection rating: IP42
- ✓Compliance: EN 50291

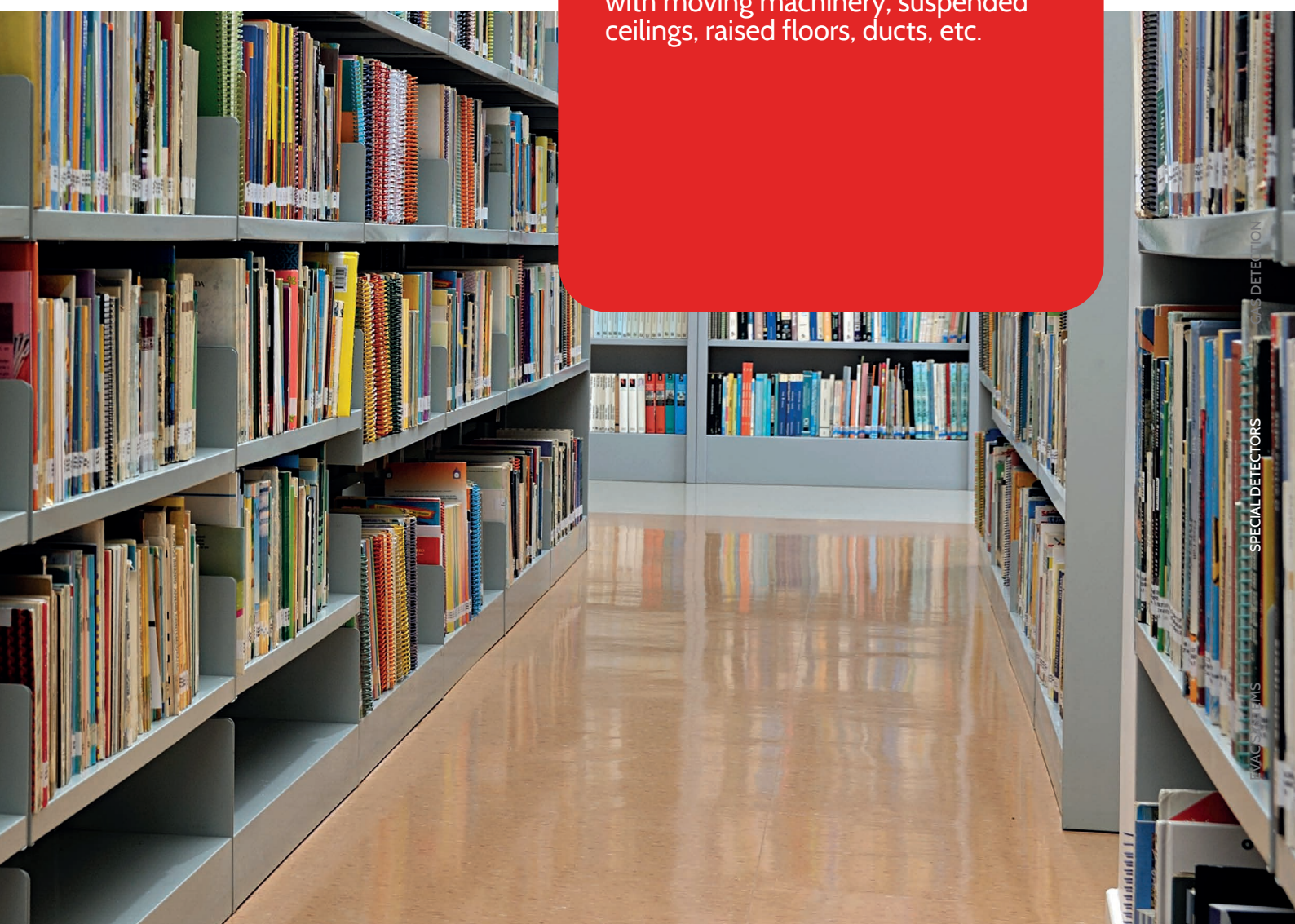


SPECIAL DETECTORS



FIRE

Elkron offers a range of detectors suitable for applications where standard installation is complex, such as museums, service-sector environments with moving machinery, suspended ceilings, raised floors, ducts, etc.



SPECIAL DETECTORS

ASPIRATING SMOKE DETECTORS

FAAST FLEX provides a highly flexible aspirating smoke detection (ASD) solution suitable for a range of applications, including small and medium-sized warehouses, cold storage and concealed spaces such as suspended ceilings and raised floors.

FAAST FLEX offers high levels of flexibility through modular pipe networks and automatic start-up with guided configuration and a simplified monitoring system.

Air is drawn into FAAST FLEX by a variable-speed aspirator through a network of sampling pipes.

Each pipe inlet is fitted with an airflow sensor that monitors changes in airflow within the pipe.

Inside FAAST FLEX, an air sample is filtered and conveyed to the detection chamber for analysis of even very small quantities of smoke. The air is discharged from FAAST FLEX and can be returned to the protected area.

Funzioni

- ✓ Single- and dual-channel versions covering areas up to 1,600 m² for the single-channel model and up to 2,000 m² for the dual-channel model.
- ✓ Class A, B and C performance providing:
 - 1-channel models: 5, 15 and 32 holes respectively
 - 2-channel model: 8, 28 and 56 holes respectively
- ✓ An ultrasonic airflow monitoring element for each chamber for accurate and reliable detection.
- ✓ A metal-mesh filter for each chamber to protect the optics and increase detector life.
- ✓ Action, Alarm and Fault relays per channel for connection to FACP and BMS systems.
- ✓ Simplified, intuitive LED user interface for immediate status indication.
- ✓ Modular pipe networks for design and installation tailored to the protected environment.
- ✓ Two configuration modes:
 - Automatic, with guided configuration and simplified control mechanism for rapid commissioning
 - Advanced, for adaptation to specific requirements
- ✓ Guided installation, multiple mounting orientations (upright, inverted) and ample wiring space to save time and effort.
- ✓ Quiet operation (30 dB) with adjustable fan speed for adaptation to different environments.
- ✓ Suitable for cold-storage environments with operating temperatures down to -40 °C.
- ✓ Password-protected access for operation, diagnostics and maintenance.
- ✓ IP40 rating for protection against ingress of foreign objects.
- ✓ Integrated event log for up to 2,100 user-action events and smoke trends.

SPECIAL DETECTORS

ASPIRATING SMOKE DETECTORS

FLX-1 item no. 80SD1G00123*

Single-channel aspirating smoke detector

- ✓Straight pipe length: 100 m
- ✓Branched pipe length: 160 m (2 x 80 m)
- ✓3 output relays (Pre-alarm, Alarm and Fault)
- ✓Reset input
- ✓Operating temperature: -40 °C to +55 °C
- ✓Maximum coverage: 1,600 m²
- ✓Ultrasonic airflow sensors
- ✓LED indication
- ✓Plastic enclosure: IP30
- ✓Event memory: 2,100 events
- ✓Quiet operation: 30 dB
- ✓EN54-20 class vs. number of holes (Class A: 5 holes, Class B: 13 holes, Class C: 26 holes)



FLX-2 item no. 80SD1H00123*

Two-channel aspirating smoke detector

- ✓Straight pipe length: 200 m (2 x 100 m)
- ✓Branched pipe length: 300 m (2 x 2 x 72 m)
- ✓3 output relays per channel (Pre-alarm, Alarm and Fault)
- ✓Reset input
- ✓Operating temperature: -40 °C to +55 °C
- ✓Maximum coverage: 2,000 m²
- ✓Ultrasonic airflow sensors
- ✓LED indication
- ✓Plastic enclosure: IP30
- ✓Event memory: 2,100 events
- ✓Quiet operation: 30 dB
- ✓EN54-20 class vs. number of holes (Class A: 8 holes, Class B: 20 holes, Class C: 44 holes)



*On request

SPECIAL DETECTORS

ACCESSORIES

item no. 80TU0610123*

ABS pipe. Diameter 25 mm, red, supplied in 3 m lengths



item no. 80RC1010123*

ABS coupling. Diameter 25 mm, red



item no. 80RC1110123*

ABS 90° elbow. Diameter 25 mm, red



item no. 80RC1210123*

ABS 45° elbow. Diameter 25 mm, red



item no. 80RC1310123*

ABS pipe end cap.
Diameter 25 mm, red



item no. 80RC1410123*

ABS T-coupling - diameter 25 mm, red



item no. 80SF5210123*

ABS pipe support bracket. Red



item no. 80RC1710123*

Threaded fitting (inspectable coupling).
Diameter 25 mm, red



item no. 80RE0210123*

500 ml can of adhesive for ABS pipes



item no. 80ET0110123*

Self-adhesive labels (sampling point). Pack of 100



item no. 80FT0410123*

External filter for aspirating smoke detectors,
complete with cartridge and reducers



item no. 80RC1610123*

Capillary block. Complete with 2 m flexible tube
and T-branch



*On request

SPECIAL DETECTORS

LINEAR SMOKE DETECTORS

ES50 item no. 80SD8P00123

Reflective linear smoke detector, 2-50 m

The ES50 detector consists of two units: a transmitter-receiver device (Tx + Rx) and a reflection device (reflector). It can operate over distances from 2 to 50 m. Its compact dimensions make it particularly suitable for protecting museums, churches, art galleries, buildings with complex ceilings, buildings of artistic value, etc.



- ✓ Power supply: 12 to 24 Vdc
- ✓ Standby current consumption 35 mA@12V - 19 mA@24V
- ✓ Alarm current consumption 62 mA@12V - 32 mA@24V
- ✓ Contact ratings:
 - Alarm relay: 1 A @ 30 V (resistive)
 - Opto-isolated fault relay, 170 mA @ 30 V
- ✓ Operating range: 2 to 50 m
- ✓ Coverage width: 15 m
- ✓ Operating temperature -20 °C + 55 °C
- ✓ Relative humidity: 95% (non-condensing)
- ✓ Protection rating IP44
- ✓ Material ABS
- ✓ Weight (sensor only): 360 g
- ✓ Dimensions with swivel joint (L x H x P): 103 x 110 x 119 mm
- ✓ Dimensions without swivel joint (L x H x P): 103 x 110 x 63 mm

SSM item no. 80SP7600123

Pair of articulated joints with reflector adapter

- ✓ Dimensions without swivel joint (L x H x P): 65 x 100 x 60 mm

SPECIAL DETECTORS

LINEAR SMOKE DETECTORS

FL100 item no. 80IL7800121

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

The FL100 linear smoke detector is particularly suitable for service-sector applications. Its operating principle is based on the interaction between smoke generated by an incipient fire and an infrared beam emitted by a transmitting unit (Tx), then received and processed by a receiving unit (Rx). More specifically, the Rx receiver processes an electrical signal proportional to the intensity of the light received and reports an alarm or fault condition if the signal remains below the alarm or fault threshold for a preset period of time.



- ✓ The detector is equipped with three LED indicators and two 7-segment displays for providing various information to the installer/operator.

It also has a fault relay and two relays for signalling pre-alarm and alarm conditions; the device includes a connection to a conventional fire detection line so that the alarm condition can be reported to the control unit.

- ✓ Power supply voltage: 10.8 ÷ 26.8 Vdc
- ✓ Standby current @ 24 Vdc: 55 mA
- ✓ Standby current @ 12 Vdc: 45 mA
- ✓ Alarm current @ 24 Vdc: 60 mA
- ✓ Alarm current @ 12 Vdc: 50 mA
- ✓ Fault current @ 24 Vdc: 45 mA
- ✓ Fault current @ 12 Vdc: 40 mA
- ✓ Pre-alarm obscuration thresholds: 20%, 25%, 30%, 35%
- ✓ Alarm obscuration threshold: 35%
- ✓ Minimum operating distance: 5 m
- ✓ Maximum operating distance: 150 m
- ✓ Transmitter beam wavelength: 890 nm
- ✓ Beam misalignment tolerance: $\pm 1^\circ$
- ✓ Pre-alarm relay: 1 A, 30 Vdc resistive load - NO/NC contact selectable by jumper
- ✓ Alarm relay: 1 A, 30 Vdc resistive load - NO/NC contact selectable by jumper
- ✓ Fault relay: 1 A, 30 Vdc resistive load - NO/NC contact selectable by jumper
- ✓ Conventional line - input voltage range: 10 to 20 Vdc
- ✓ Conventional line - pre-alarm current consumption: 20 mA @ 20 Vdc
- ✓ Conventional line - alarm current consumption: 40 mA @ 20 Vdc
- ✓ Conventional line - reset pulse duration: 200 ms
- ✓ Operating temperature: $(-10 \pm 3)^\circ\text{C}$ ÷ $(55 \pm 2)^\circ\text{C}$
- ✓ Relative humidity: $(93 \pm 3)\%$
- ✓ Protection rating: IP55
- ✓ Weight: 900 g
- ✓ Dimensions (L x H x P): 248 x 122 x 120 mm
- ✓ Certified EN54 part 12, N. 1293-CPR-0406

SPECIAL DETECTORS

LINEAR SMOKE DETECTORS

FLR100 item no. 80IL7900121

Reflective linear smoke detector, max. range 100 m

The FLR100 linear smoke detector is particularly suitable for protecting cultural heritage sites such as museums, churches, historic buildings and art exhibitions. Its operating principle is based on the interaction between smoke generated by an incipient fire and an infrared beam emitted and reflected by a special optical reflector. More specifically, the Rx receiver processes an electrical signal proportional to the intensity of the light received and reports an alarm or fault condition if the signal remains below the alarm or fault threshold for a preset period of time.



- ✓ The detector is equipped with three LED indicators and two 7-segment displays for providing various information to the installer/operator.

It also has a fault relay and two relays for signalling pre-alarm and alarm conditions; the device includes a connection to a conventional fire detection line so that the alarm condition can be reported to the control unit.

- ✓ Power supply voltage: 10.8 ÷ 26.8 Vdc
- ✓ Standby current @ 24 Vdc: 55 mA
- ✓ Standby current @ 12 Vdc: 45 mA
- ✓ Alarm current @ 24 Vdc: 50 mA
- ✓ Alarm current @ 12 Vdc: 40 mA
- ✓ Fault current @ 24 Vdc: 35 mA
- ✓ Fault current @ 12 Vdc: 30 mA
- Pre-alarm obscuration thresholds: 20%, 25%, 30%, 35%
- Alarm obscuration threshold: 35%
- ✓ Minimum operating distance: 5 m
- ✓ Maximum operating distance: 100 m
- Transmitter beam wavelength: 890 nm
- Beam misalignment tolerance: $\pm 1^\circ$
- Pre-alarm relay: 1 A, 30 Vdc resistive load - NO/NC contact selectable by jumper
- Alarm relay: 1 A, 30 Vdc resistive load - NO/NC contact selectable by jumper
- Fault relay: 1 A, 30 Vdc resistive load - NO/NC contact selectable by jumper
- Conventional line - input voltage range: 10 to 20 Vdc
- Conventional line - pre-alarm current consumption: 20 mA @ 20 Vdc
- Conventional line - alarm current consumption: 40 mA @ 20 Vdc
- Conventional line - reset pulse duration: 200 ms
- ✓ Operating temperature: $(-10 \pm 3)^\circ\text{C} \div (55 \pm 2)^\circ\text{C}$
- ✓ Relative humidity: $(93 \pm 3)\%$
- ✓ Protection rating: IP55
- ✓ Weight: 900 g
- ✓ Dimensions (L x H x P): 248 x 122 x 120 mm
- ✓ Certified EN54 part 12, N. 1293-CPR-0407

SPECIAL DETECTORS

LINEAR SMOKE DETECTORS

FLR500 item no. 80IL8300121

Addressable reflective linear smoke detector,
maximum range 100 m



The FLR500 reflective linear smoke detector is an addressable device with a short-circuit isolator. It is particularly suitable for service-sector applications and special environments such as museums, churches, historic buildings, etc.

The detector contains both the transmitting (Tx) and receiving (Rx) sections for the infrared signal; its operating principle is based on the interaction between smoke generated by an incipient fire and an infrared beam emitted and reflected by a special optical reflector.

The device has three LED indicators and two 7-segment displays for providing information to the installer; the detector board includes terminals for connection to the detection line and terminals for connecting a remote alarm repeater.

Detector configuration can be set using a series of DIP switches or directly from the control unit.

FLR500 is an addressable detector for use with FAP54 series addressable fire detection control units.

- ✓ Power supply voltage (via detection line): 20 Vdc (-15%, +10%) modulated
- ✓ Average current consumption (normal conditions): 250 µA @ 20 Vdc
- ✓ Average current consumption (alarm conditions): 2 mA @ 20 Vdc
- ✓ LED indicators: Alarm 2, Alarm 1, normal operation, fault, maintenance
- ✓ Alarm 1 obscuration threshold: 20%, 25%, 30%, 35%
- ✓ Alarm 2 obscuration threshold: 35%
- ✓ Fault obscuration threshold: 95%
- ✓ Minimum operating distance: 5 m
- ✓ Maximum operating distance: 100 m
- ✓ Transmitter beam wavelength: 890 nm
- ✓ Beam misalignment tolerance (Tx/Rx unit and passive reflector): $\pm 0.5^\circ$; $\pm 5^\circ$
- ✓ Alarm repetition output voltage: 20 Vdc (-15%, +10%)
- ✓ Maximum functional/alarm repeater output current: 2 mA
- ✓ Operating temperature: $(-10 \pm 3)^\circ\text{C} \div (55 \pm 2)^\circ\text{C}$
- ✓ Relative humidity: $(93 \pm 3)\%$
- ✓ Protection rating: IP55
- ✓ Dimensions (L x H x P): 248 x 122 x 120 mm
- ✓ Weight: 900 g
- ✓ Certified EN54 part 12 and 17, N. 1293-CPR-O857

SPECIAL DETECTORS

LINEAR SMOKE DETECTORS

RIFLE20 item no. 80IL8000121

Reflector, max. range 20 m

✓•Dimensions (L x H): 10 x 10 cm

RIFLE50 item no. 80IL8100121

Reflector, max. range 50 m

✓•Dimensions (L x H): 20 x 20 cm

RIFLE100 item no. 80IL8200121

Reflector, max. range 100 m

✓•Dimensions (L x H): 30 x 30 cm

NON-FLAMMABLE LIQUID PRESENCE DETECTOR

RA/209 item no. 80SD2B00121

Electronic detector for the presence of non-flammable liquids

The presence of water is detected by four gold-plated support feet, which put the detector into alarm and switch an internal relay.

For greater protection, model RA/209 includes a humidity detector with sensitivity adjustable by an internal trimmer.

✓•Connection of up to 10 external RA/209S probes, item no. 80SD7L00121

✓•Enclosure material: white thermoplastic

✓•Operating voltage: 12 to 27 Vdc

✓•Average current consumption: 3.5 mA at 27 Vdc

✓•Operating temperature: +5 °C/50 °C

✓•Dimensions (L x H x P): 64 x 96 x 30 mm



HEAT-SENSITIVE DETECTORS

Linear heat detectors are two-conductor steel cables, each conductor being coated with a special temperature-sensitive polymer. When the activation temperature is reached, the heat-sensitive polymer melts, generating a short-circuit condition. Linear heat detectors are used to monitor very large areas and, thanks to their reliability and ease of use, are suitable for every type of installation.

RLB/1 item no. 80SD6P00121*

Linear heat-sensitive detector calibrated to 68 °C (certified)

✓•Supplied in 100 m coils

RLB/2 item no. 80SD5P00121*

Linear heat-sensitive detector calibrated to 105 °C (certified)

✓•Supplied in 100 m coils

*On request



EVAC SYSTEMS



FIRE

EVAC systems are an essential element of fire protection systems. Guiding evacuation with voice messages helps people inside a building follow evacuation procedures as safely as possible. They are suitable for environments such as supermarkets, cinemas, museums, schools, offices, hotels, etc.



EVAC SYSTEMS

CONTROL PANELS

The control unit is the main unit of the voice evacuation system for small and medium-sized applications where an EN54-16 compliant system is required. It includes a DSP-based master unit and up to 6 Class-D power amplifiers, and can provide up to 250 watts total. One amplifier can also be configured as an automatic standby replacement for a failed unit. It includes an integrated audio source, prerecorded messages and emergency messages stored on a monitored SD card. It is equipped with an EN54-4 power supply and an internal battery compartment. The integrated DSP platform optimises room equalisation, maximising speech intelligibility and the quality of background music. Up to 8 control units can be networked.



•Common features

- ✓•Power supply: 230 Vac
- ✓•Number of integrated power amplifiers: 2 to 6
- ✓•Automatic changeover to standby amplifier
- ✓•Output power: 250 W
- ✓•Amplifier class: D+
- ✓•Integrated audio source on the front panel
- ✓•Pre-recorded emergency messages
- ✓•SD card
- ✓•USB flash-drive input
- ✓•Maximum number of consoles: 4
- ✓•Maximum number of connectable units: 8
- ✓•Protection rating: IP30
- ✓•Enclosure material: metal
- ✓•Dimensions (L x H x P): 533 x 430 x 190 mm
- ✓•Certification: EN54 Parts 4 and 16

item no. 80SC1000123*
2-zone EVAC control unit

item no. 80SC1100123*
4-zone EVAC control unit

item no. 80SC1200123*
6-zone EVAC control unit

Note: for control units with higher power, contact Customer Service.

*On request

EVAC SYSTEMS

MICROPHONE STATIONS

item no. 80MF0100123*

Desktop paging microphone station

The desktop paging microphone station is equipped with an electret microphone. It can be connected directly to the EVAC control unit using an 8-conductor (4-pair) fire-resistant type-J cable. Up to four microphone stations can be connected in cascade on the same line. In this case, the first station on the line is powered directly by the control unit, while the others require external 24 V @ 500 mA power supplies. The total cable length, calculated as the sum of all cables, must not exceed 800 m.



✗Flexible stem length: 276 mm

✓•Dimensions (W x H x D): 128 x 44 x 203 mm (without gooseneck)

✓•Certified EN54 part 16

item no. 80PL2400123*

Additional desktop keypad

The additional keypad has six buttons and operates with microphone stations 80MF0100123 and 80MF0200123. It allows selective calls to each system zone. Up to eight units can be connected to the same microphone station. Each button has a fixed address corresponding to a specific system zone.



✓•Dimensions (L x H x P): 78 x 203 x 39 mm

✓•Certified EN54 part 16

item no. 80MF0200123*

Emergency microphone for firefighters

Wall-mounted emergency microphone for firefighters, operating in the same way as microphone station 80MF0100123. It can be connected directly to the control unit using an 8-conductor (4-pair) fire-resistant type-J cable. Up to four microphone stations can be connected in cascade on the same line and are interlocked with one another. The first station on the line is powered directly by the control unit, while the second, third and fourth require external 24 Vdc @ 500 mA power supplies. The total cable length, calculated as the sum of all cables, must not exceed 800 m. Compared with station 80MF0100123, it differs as follows: the microphone station is protected inside a wall-mounted metal enclosure with glass, finished in red RAL 3000; a handheld dynamic microphone with activation button is provided instead of a microphone capsule on a flexible stem.



✓•Dimensions (L x H x P): 360 x 360 x 129 mm

✓•Certified EN54 part 16

*On request

EVAC SYSTEMS

MICROPHONE STATIONS

item no. 80MF0300123*

Wall-mounted emergency microphone

The wall-mounted emergency microphone allows general calls with priority over all other inputs, including prerecorded messages during ALERT and EVAC events. It features self-diagnostics and system-status reporting in compliance with EN 54-16:2008. Up to four microphone stations can be connected in cascade on the line; the first is powered directly by the control unit, while the others require external 24 V @ 500 mA power supplies. The microphone panel has only the protected bistable emergency button with red light, used for alert and evacuation announcements when alarms are active (general-call function only). Microphone status is shown by the LED indicator bar.



✓Dimensions (L x H x P): 115 x 210 x 36 mm

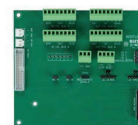
✓Certified EN54 part 16

ACCESSORIES

item no. 80SC1300123*

Interlink board

The interface allows up to 8 control units to be connected in a Master/Slave configuration. It has a fully redundant communication bus for audio and commands. It provides global emergency functions while retaining local paging and background music.



item no. 80SC1400123*

GPI monitoring board

The interface allows the control unit's logic inputs to be monitored when the latter is not connected to a fire alarm control unit. The board is installed inside the control unit and powered directly by the EVAC control unit.



item no. 80SC1500123*

End-of-line circuit

The end-of-line device accurately monitors the integrity of a loudspeaker line and is suitable for the impedance measurement system used by EVAC products. One device is connected at the end of each loudspeaker line.



✓Dimensions (L x H x P): 80 x 145 x 70 mm

✓Certified EN54 part 16

item no. 80PS9400123*

24 V @ 500 mA power supply unit

The power supply can be connected to all microphone stations requiring 24 Vdc power.

✓Power supply voltage: 90-240 V

✓Output voltage: 24 V

✓Maximum current in output: 500mA



*On request

EVAC SYSTEMS

LOUDSPEAKERS AND PROJECTORS

item no. 80AT7600123*

Ceiling loudspeaker Ø 220 mm

Ceiling loudspeaker with a steel fire-resistant back can, designed for recessed installation in suspended ceilings or panels. It is particularly suitable for broadcasting alarm messages: its main feature is highly intelligible speech reproduction and resistance to the high temperatures reached during a fire. Connection terminals are ceramic for fire-resistant input and output cables. Complete with a thermal fuse that prevents heat affecting the loudspeaker from compromising the integrity of the audio line, and with an earth screw. Internal wiring uses fire-resistant conductors.



- ✓ Selectable power at 100 V: 6 W - 3 W - 1.5 W
- ✓ Dimensions (Ø x P): 220 mm x 96 mm
- ✓ Certified EN54 part 24

item no. 80AT8800123

Recessed steel loudspeaker, Ø 180 mm

The acoustic loudspeaker is a 6 W speaker suitable for installation in suspended ceilings or panels. Its appearance and acoustic characteristics make it ideal for commercial environments such as shops, offices and hotels. Suitable for voice messages and background music.



- ✓ Selectable power at 100 V: 6 W - 3 W - 1.5 W - 0.75 W
- ✓ Dimensions (Ø x P): 180 x 140 mm
- ✓ Weight: 1,4 kg
- ✓ Certified EN54 part 24

item no. 80AT7900123*

Ceiling loudspeaker Ø 175 mm

Acoustic loudspeaker with a plastic fire-resistant back can, designed for recessed installation in suspended ceilings or panels. Its main feature is highly intelligible speech reproduction and resistance to the high temperatures reached during a fire. Connection terminals are ceramic for fire-resistant input and output cables.



- ✓ Selectable power at 100 V: 6 W - 3 W - 1.5 W;
- ✓ Dimensions (Ø x D): 175 x 71 mm; EN54 Part 24 certified

*On request

EVAC SYSTEMS

LOUDSPEAKERS AND PROJECTORS

item no. 80AT8900123

Square steel wall-mounted loudspeaker

The acoustic loudspeaker is a 6 W speaker suitable for wall and ceiling installation. Its appearance and acoustic characteristics make it ideal for commercial and service-sector environments such as shops, offices, schools and hotels. Suitable for voice messages and background music.

- ✓Selectable power at 100 V: 6 W - 3 W - 1.5 W - 0.75 W;
- ✓Dimensions (W x H x D): 184.7 x 184.7 x 71 mm; Weight: 1.3 kg;
- ✓EN54 Part 24 certified
- ✓



item no. 80AT8300123*

Rectangular wall- or ceiling-mounted loudspeaker

High-intelligibility loudspeaker designed to transmit alarm messages and background music. It has a 5.5-inch full-range speaker, ABS enclosure, ceramic terminal block and internal thermal fuse.

- ✓Selectable power at 100 V: 6 W - 3 W - 1.5 W;
- ✓Dimensions (W x H x D): 267 x 166 x 80 mm; EN54
- ✓Part 24 certified
- ✓



item no. 80AT9200123

20 W unidirectional aluminium sound projector, complete with bracket

The sound projector is a 20 W unidirectional speaker suitable for wall and ceiling installation. It is ideal for commercial and service-sector environments such as shopping centres, shops and warehouses thanks to its excellent sound reproduction, high intelligibility and efficiency. Suitable for voice messages and background music.

- ✓Selectable power at 100 V: 20 W - 10 W - 5 W;
- ✓Dimensions (Ø x D): 170 x 252 mm; Weight: 2.6 kg;
- ✓EN54 Part 24 certified
- ✓



item no. 80AT9100123

Bidirectional aluminium sound projector

The sound projector is a 20 W bidirectional speaker suitable for wall and ceiling installation. It is ideal for commercial and service-sector environments such as shopping centres, shops and warehouses thanks to its excellent sound reproduction, high intelligibility and efficiency. Suitable for voice messages and background music.

- ✓Selectable power at 100 V: 20 W - 10 W - 5 W
- ✓Dimensions (Ø x P): 170 x 252 mm
- ✓Weight: 3,2 kg
- ✓Certified EN54 part 24



*On request

EVAC SYSTEMS

LOUDSPEAKERS AND PROJECTORS

item no. 80AT8600123*

10 W unidirectional sound projector

10 W unidirectional sound projector. It features an elegant appearance and easy aiming, and is suitable for sound reinforcement in commercial and industrial environments such as supermarkets, swimming pools, warehouses and car parks, wherever good reproduction quality with high intelligibility and efficiency is required. It has a robust cylindrical plastic-resin body with an aluminium mounting bracket. It incorporates a dual-cone loudspeaker, externally protected by an aluminium grille, and a transformer for 100 V constant-voltage lines with selectable power during installation.



- ✓Selectable power at 100 V: 10 W - 5 W - 2.5 W
- ✓Protection rating: IP65
- ✓Dimensions (Ø x P): 137 mm x 215 mm
- ✓Certified EN54 part 24

item no. 80AT9000123

ABS horn loudspeaker

The acoustic loudspeaker is a 30 W horn made of UV-resistant ABS with IP66 protection. It is suitable for both indoor and outdoor applications. The adjustable wall-mount bracket makes it easy to aim, and it can be used in systems installed in very large spaces such as supermarkets, railway stations, underground stations, industrial facilities and warehouses. It includes a transformer for 100 V/70 V constant-voltage lines, an internal power selector and ceramic cable terminals.



- ✓Selectable power at 100 V: 30 W - 15 W - 7.5 W - 3.75 W - 1.9 W
- ✓Dimensions (Ø x P): 245 x 290 mm
- ✓Weight: 2,1 kg
- ✓Certified EN54 part 24

*On request

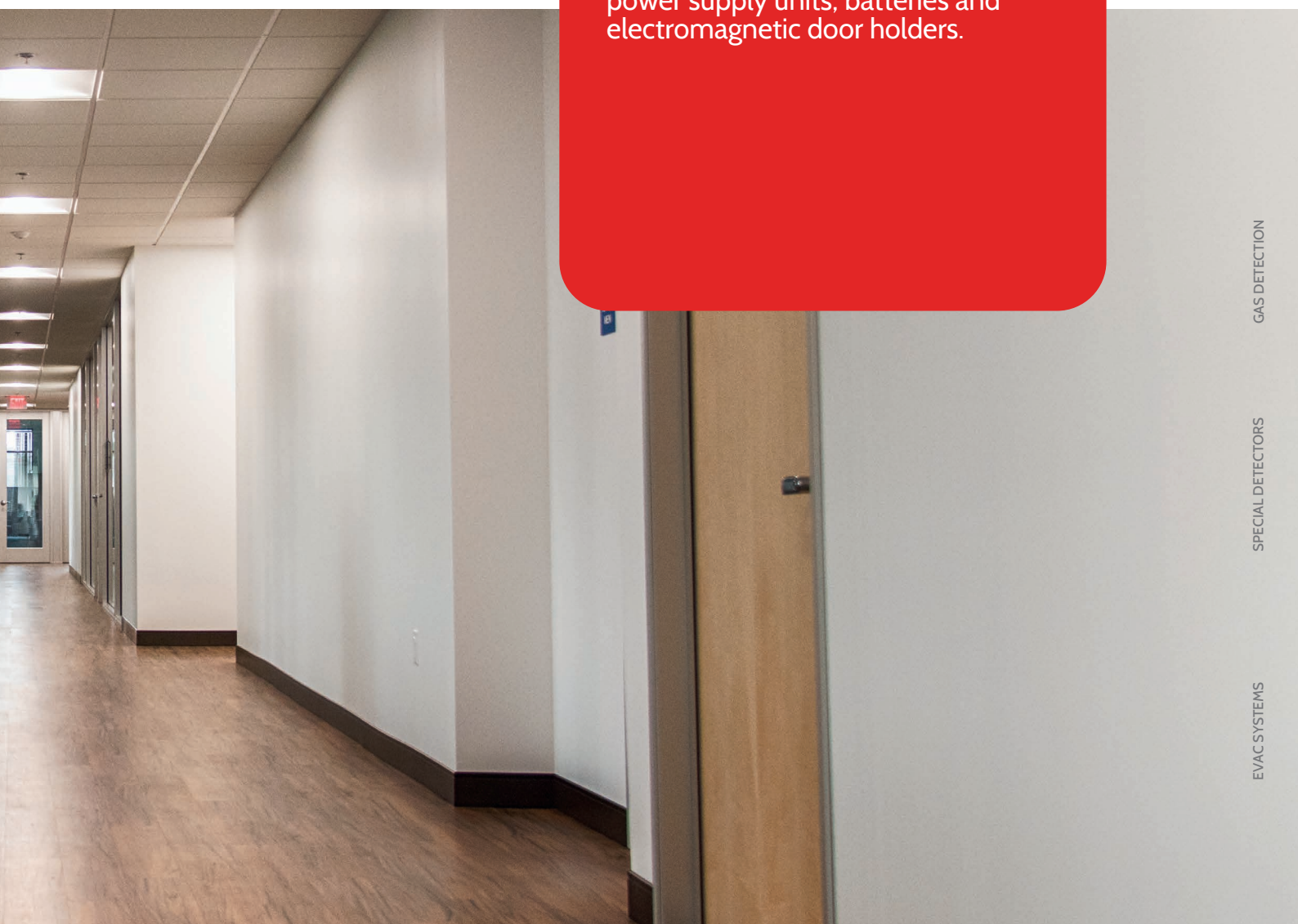


VISUAL/AUDIBLE SIGNALLING DEVICES / ACCESSORIES



FIRE

Elkron offers a range of signalling devices and accessories to complete the fire detection system: visual/audible signalling devices, power supply units, batteries and electromagnetic door holders.



GAS DETECTION

SPECIAL DETECTORS

EVAC SYSTEMS

VISUAL/AUDIBLE SIGNALLING DEVICES

VISUAL/AUDIBLE DEVICES

TM24-B item no. 80FH6800121

Audible fire alarm signalling device

The TM24-B sign is a visual and audible fire alarm signalling device. It is intended for indoor use, provides 4 selectable audible modes, and uses high-efficiency LEDs in the illuminated section to reduce power consumption while ensuring excellent brightness. The supplied pictograms are ALLARME INCENDIO and FIRE ALARM.



- ✓ Power supply: 24 Vdc (21 ÷ 29 Vdc)
- ✓ Current consumption max: 10 mA @ 24Vcc
- ✓ Audible mode selection by DIP switch: continuous, intermittent, alternating (two-tone), sweep (ramp)
- ✓ Compliant with UNI 11744 tone standard
- ✓ Optical section flash period: 1.5 s
- ✓ Operating temperature: -10°C ÷ +55°C
- ✓ Environmental class: Type A - indoor use
- ✓ Protection rating: IP21C
- ✓ Weight: 650 g
- ✓ Dimensions (L x H x P): 360 x 150 x 70 mm
- ✓ EN54-3 certification. DoP No. 0051-CPR-2256

TM24I item no. 80FH4700121

Loop-addressable visual/audible device

- ✓ Operating voltage: 20 Vdc (-15%, +10%) modulated - detection line
- ✓ Standby current consumption: 250 micro A @ 20Vcc
- ✓ Alarm current consumption: 2,5 mA @ 20Vcc
- ✓ Sound output at 1 m: 78 dB
- ✓ Integrated isolator module
- ✓ Compliant with UNI 11744 tone standard
- ✓ Selectable audible tones
- ✓ Selectable audible output volume
- ✓ Configuration from the control unit or by DIP switches
- ✓ Dimensions (L x H x P): 360 x 150 x 70 mm
- ✓ EN54 Part 3 certified: DoP No. 0051-CPR-0469



5965 item no. 80FH6500123

Device of signalling optical and audible

- ✓ Device suitable for surface mounting
- ✓ Power supply: 24 Vdc
- ✓ Current consumption: 130 mA
- ✓ Sound pressure at 1 m: 70 dB
- ✓ Continuous or pulsed sound (1 Hz)
- ✓ Lampeggiatore: selezionabile 0,2 s ON - 1,1 s OFF
- ✓ Reverse-polarity protection
- ✓ Dimensions (L x H x P): 365 x 170 x 72 mm
- ✓ EN54 Parts 3 and 23 certification



VISUAL/AUDIBLE SIGNALLING DEVICES

VISUAL/AUDIBLE DEVICES

5955 item no. 80FH6000121

IP54C visual/audible device

- ✓ Power supply: 10.8-28 Vdc
- ✓ Max. current consumption: 100 mA @ 24 V
- ✓ High-brightness lamp, steady or flashing light
- ✓ Protection rating: IP54
- ✓ Connection type: terminals
- ✓ Sound pressure: 70 dB at 1 m
- ✓ Continuous or pulsed sound
- ✓ Pictogram: FIRE ALARM
- ✓ Weight: 0,9 Kg
- ✓ Dimensions (L x H x P): 365 x 147 x 50 mm
- ✓ Certified EN 54-3



SIGNALLING DEVICES

LR500 item no. 80SR1100121

Remote visual indicator

The remote visual indicator outside the room indicates the alarm status of a detector installed in a concealed area.

- ✓ Power supply: 12-24 Vdc
- ✓ Current consumption: 11 mA
- ✓ Terminal connection
- ✓ Operating temperature: -10 °C ÷ +55 °C
- ✓ Enclosure material: ABS class VO
- ✓ 2 high-efficiency red LEDs
- ✓ Selectable steady/flashing light
- ✓ Dimensions (L x H x P): 65,5 x 60,6 x 23,6 mm
- ✓ Weight: 30 g
- ✓ Protection rating: IP40



KARI/N item no. 80SR1300121*

Visual signalling device for raised floors

The device is a button-type visual fire alarm repeater, ideal for floor installations. It can be walked on and, when connected as a repeater for a point detector, the SD500RL base must be used.

- ✓ Nominal voltage: programmable 3 V - 24 V
- ✓ Maximum current: 18mA
- ✓ Lighting mode: steady visual indication
- ✓ High-brightness LED visual indication
- ✓ Operating temperature: -10 °C to +55 °C
- ✓ Dimensions (Ø x H): 38 x 67,5 mm
- ✓ Thread size: M32
- ✓ Weight: 40 g



*On request

VISUAL/AUDIBLE SIGNALLING DEVICES

SIGNALLING DEVICES

LR500SI item no. 80SR1200121

Remote visual indicator for FAP500 digital systems

The remote visual indicator installed outside the room indicates the alarm status of a detector installed in a concealed area and also reports correct detector operation by flashing the green LED. Suitable for all Elcron FAP500 series detectors with SD500R base.



- ✓ Power supply: 12-24 Vdc
- ✓ Current consumption: 11 mA
- ✓ Terminal connection
- ✓ Operating temperature: -10 °C ÷ +55 °C
- ✓ Weight: 30 g
- ✓ Enclosure material: ABS class VO
- ✓ 2 high-efficiency red LEDs
- ✓ 1 high-efficiency green LED
- ✓ Selectable steady/flashing light
- ✓ Dimensions (L x H x P): 65,5 x 60,6 x 23,6 mm
- ✓ Protection rating: IP40

SD500LI item no. 80SD5X00121

Loop-addressable base with integrated sounder and flashing beacon

- ✓ Operating voltage: 20 Vdc (-15%, +10%) modulated - detection line
- ✓ Standby current consumption: 250 micro A @ 20Vcc
- ✓ Alarm current consumption: 2,5 mA @ 20Vcc
- ✓ Sound output at 1 m: 78 dB
- ✓ Integrated isolator module
- ✓ Selectable audible tones
- ✓ Selectable audible output volume
- ✓ Cover supplied with product
- ✓ Configuration from the control unit or by DIP switches
- ✓ Protection rating: IP21C
- ✓ Dimensions: Ø 114mm
- ✓ EN54 Part 3 certification: DoP No. 1293-CPR-0534



PLEXI item no. 80FH6800123

Plexiglas fire alarm panel

Screen-printed Plexiglas panel with FIRE ALARM wording. Suitable for installation with the SD500LI device.



item no. 80FH4800123

Pictogram kit for PLEXI panel

Pack of 3 'EVACUATE THE AREA' pictograms.

item no. 80FH4900123

Pictogram kit for TM24 range signs

Pack contents: 1 'EVACUATE THE AREA' pictogram and 1 'EXTINGUISHING IN PROGRESS' pictogram.

VISUAL/AUDIBLE SIGNALLING DEVICES

SIGNALLING DEVICES

DVS500 item no. 80FH6900121

Device of signalling visual and audible on loop

The device is an addressable audible and visual fire alarm signalling device with an integrated short-circuit isolator. It is compatible with all FAP54 series fire detection control units and can be used as an audible, visual or combined audible/visual signalling device. The addressable device can be configured from the control unit or by DIP switches. Visual and audible synchronisation with other DVS500 devices installed on the same detection line is built in.



- ✓Operating voltage: 20 Vdc (-15%, +10%) modulated - detection line
- ✓Standby current consumption: 250 µA @ 20 Vdc
- ✓Optical emission colour: red
- ✓Flashing frequency: 0.5 Hz, 1 Hz
- ✓Selectable audible mode: sweep/two-tone/intermittent/continuous
- ✓Two-colour LED: status and address indication
- ✓Number of devices in alarm per loop line (visual and audible section): 14 (use mode 9 as reference)
- ✓Sound output at 1 m at 75°: horizontal axis 85.7 dB
- ✓Sound output at 1 m at 75°: vertical axis 79 dB
- ✓Operating temperature: -10 ÷ 55°C ± 2°C
- ✓Environmental class: Type A - indoor
- ✓Protection rating: IP41C
- ✓Weight: 170 g
- ✓Dimensions: Ø 130 x 46 (H) mm with cover

PLEXI VAD item no. 80FH7000121

Plexiglas fire alarm panel for DVS500 device

The Plexiglas panel bearing the FIRE ALARM wording can be installed with the DVS500 visual/audible fire alarm device or with any other round-base actuator having a diameter of less than 13 cm.



- ✓Material: Plexiglas
- ✓Weight: 200 g
- ✓Dimensions: 390 (L) x 150 (H) x 5 (P) mm
- ✓Supplied with spacers and wall plugs

SOUNDERS

HPA100F item no. 80HP9500111

Additional internal sounder

- ✓Acoustic frequency: 2800 - 3200 Hz
- ✓Sound pressure: 100 dB at 1 m
- ✓Colour: red
- ✓Reverse-polarity protection
- ✓Power supply: 12-24 Vdc
- ✓Current consumption: 140 mA
- ✓Dimensions (L x H x P): 140 x 105 x 40 mm



VISUAL/AUDIBLE SIGNALLING DEVICES

SOUNDERS

HPA700MF item no. 80HS7800121

Audible fire alarm device

The HPA700MF sounder is a visual and audible fire alarm signalling device. It is certified to EN54 Part 3 and is compatible with all control units. The device is intended for outdoor use, provides 4 selectable audible modes, and uses high-efficiency LEDs for the illuminated section.

- ✓Power supply: 24 Vdc (21 ÷ 29 Vdc)
- ✓Current consumption max: 300 mA @ 24Vcc
- ✓Audible mode selection by DIP switch: continuous, intermittent, alternating (two-tone), sweep (ramp)
- ✓Optical section flash period: 0.5 s
- ✓Operating temperature: -25°C ÷ +75°C
- ✓Environmental class: Type B - outdoor use
- ✓Protection rating: IP33C
- ✓Weight: 1500 g
- ✓Dimensions (L x H x P): 203 x 253 x 87 mm
- ✓EN54-3 certification. DoP No. 0051-CPR-2254



4476/24 item no. 80HS7300123

IP42 electronic bell for fire alarm systems

Classic-style electronic bell for fire alarm systems and other signalling applications. The internal mechanism with motor, pinion and striker, together with the external steel bell, produces a powerful sound with low current consumption.

- ✓Power supply: 24 Vdc
- ✓Average current consumption: 25 mA
- ✓Sound pressure at 1 m: 93/95 dB
- ✓Operating temperature: -10 °C ÷ +50 °C
- ✓Protection rating: IP42



4460/24 item no. 80HS1700123

Electronic sounder for fire alarm systems

Elegant electronic sounder with innovative technology, fully encapsulated in polyurethane resin for a high level of protection and resistance.

Maximum control of the audible signal thanks to 28 tones selectable during installation using 5 internal DIP switches and volume adjustment by trimmer.

Installation is simplified by the bayonet coupling of the sounder to its base and by double terminals that allow connection branching.

- ✓Enclosure material: red thermoplastic body
- ✓Power supply: 24 Vdc
- ✓Average current consumption: 16 mA
- ✓Sound pressure at 1 m: 102 dB
- ✓Operating temperature: -20 °C ÷ +60 °C
- ✓Protection rating: IP54
- ✓EN54 Part 3 certification



VISUAL/AUDIBLE SIGNALLING DEVICES

SOUNDERS

4479/24 item no. 80HS7200123

IP55 electronic bell for fire alarm systems

Elegant electronic bell with innovative technology for fire alarm systems and other signalling applications.

The combination of a miniature solenoid and an integrated control circuit provides excellent acoustic performance, minimum current consumption and high reliability.

Split power terminals and the snap-fit cover make the bell particularly easy to install.

The IP55 protection rating allows outdoor use, while the bell can also be installed indoors.

- ✓ Power supply: 24 Vdc
- ✓ Average current consumption: 30 mA
- ✓ Operating temperature: -10 °C ÷ +55 °C
- ✓ Sound pressure at 1 m: 93/95 dB



DIS/SON65 item no. 80HS7500123

Device of signalling audible

- ✓ Power supply: 12-24 Vdc
- ✓ 32 tones selectable by switch
- ✓ Protection rating IP65
- ✓ Wall installation
- ✓ Sound pressure: 100 dB
- ✓ Operating temperature: - 25 °C + 70 °C
- ✓ Certification: EN54 Part 3



DIS/VISION65 item no. 80HS7700123

Device of signalling visual-audible

- ✓ Power supply: 18-28 Vdc
- ✓ Flash coverage: 7.5 m x 7.5 m (installation height 2.4 m)
- ✓ Protection rating IP65
- ✓ Wall installation
- ✓ High-power LED
- ✓ Sound pressure: 102 dB
- ✓ Operating temperature: - 25 °C + 70 °C
- ✓ Certification: EN54 Parts 3 and 23



ACCESSORIES

COMMUNICATORS

FIRE4G item no. 8OCT8100123

Stand-alone FIRE 4G-IP communicator EN54-21

The FIRE 4G communicator is an alarm-event transmission device for fire detection systems. It provides dual Ethernet/4G communication paths and is equipped with 4 inputs and 4 outputs. The communicator transmits via the SIA DC-09 protocol to third-party systems such as alarm receiving centres and by SMS to mobile phone numbers. An integrated web server simplifies programming.

- ✓ Power supply: 24 Vdc (9 ÷ 28 Vdc)
- ✓ Current consumption: 700 mA
- ✓ 4G interface: - 4G LTE Cat.1 with 2G fallback -
Rod antenna with SMA connector - MINI-SIM
format SIM card (25 x 15 mm)
- ✓ Ethernet interface: RJ-45 100Base-T
- ✓ Integrated web server functions: configuration; device
status display; real-time monitoring of device activity;
event black-box display.
- ✓ Inputs: - 4 balanced inputs - Maximum input voltage:
-0.5 Vdc to 24 Vdc - Tamper for device-opening
indication
- ✓ Outputs: - 4 solid-state relay outputs -
Maximum operating voltage: 24 Vdc -
Maximum switching current: 100 mA
- ✓ LED indications: - Power: power supply present -
Fire Alarm: fire alarm active - Fault: communicator
fault condition
- ✓ Dimensions (L x H x P): 197 x 178 x 45 mm
- ✓ EN54 Part 21 certification



POWER SUPPLY UNITS

ALIM2425 item no. 8OPS5600121

Auxiliary power supply 24 V - 2.5 A

- ✓ Mains voltage: 230 Vac
- ✓ Output voltage: 27.6 Vdc
- ✓ Maximum output current: 2.5 A
- ✓ Maximum battery-charger current: 0.8 A
- ✓ Operating temperature: - 5 °C + 40 °C
- ✓ Protection rating: IP30
- ✓ Batteries not included: 2 x 12 V 7.2 Ah batteries
- ✓ Weight: 8,2 Kg
- ✓ Dimensions (L x H x P): 460 x 340 x 130 mm
- ✓ EN54 Part 4 certified: No. 1293-CPR-O524



ACCESSORIES

POWER SUPPLY UNITS

ALIM2450 item no. 80PS5700121

Auxiliary power supply 24 V - 4 A

- ✓ Mains voltage: 230 Vac
- ✓ Output voltage: 27.6 Vdc
- ✓ Maximum output current: 4 A
- ✓ Maximum battery-charger current: 0.8 A
- ✓ Operating temperature: - 5 °C + 40 °C
- ✓ Protection rating: IP30
- ✓ Batteries not included: 2 x 12 V 18 Ah batteries
- ✓ Weight: 9,4 Kg
- ✓ Dimensions (L x H x P): 460 x 340 x 130 mm
- ✓ EN54 Part 4 certified: No. 1293-CPR-O524

ELECTROMAGNETIC DOOR HOLDERS

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

RBO6 item no. 8ORBO410113

Sealed rechargeable battery, 12 V 7.2 Ah

RB19 item no. 8ORBO310113

Sealed rechargeable battery, 12 V 2.2 Ah

RB15 item no. 8ORBO810113

Sealed rechargeable battery, 12 V 18 Ah

RB24 item no. 8ORBO510113

Sealed rechargeable battery, 12 V 26 Ah

RB1212 item no. 8ORB1110113

Sealed rechargeable battery, 12 V 12 Ah

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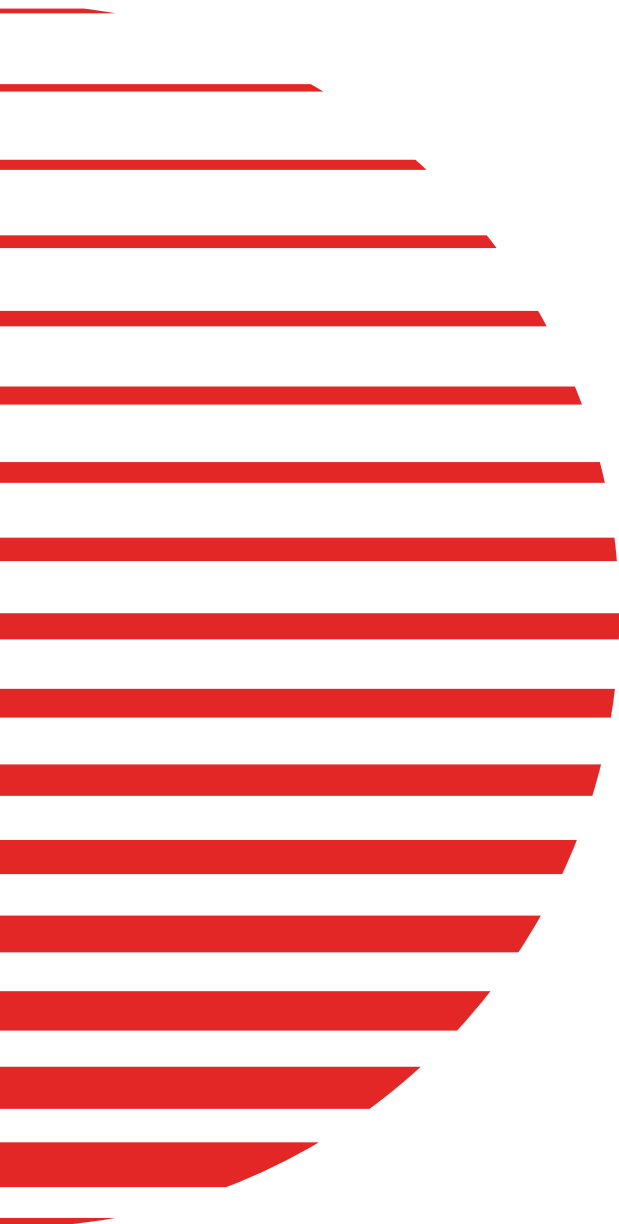
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