

FIRE DETECTION



ELKRON. THE HI-PROTECTION COMPANY

ELKRON

CONVENTIONAL FIRE DETECTION SYSTEMS

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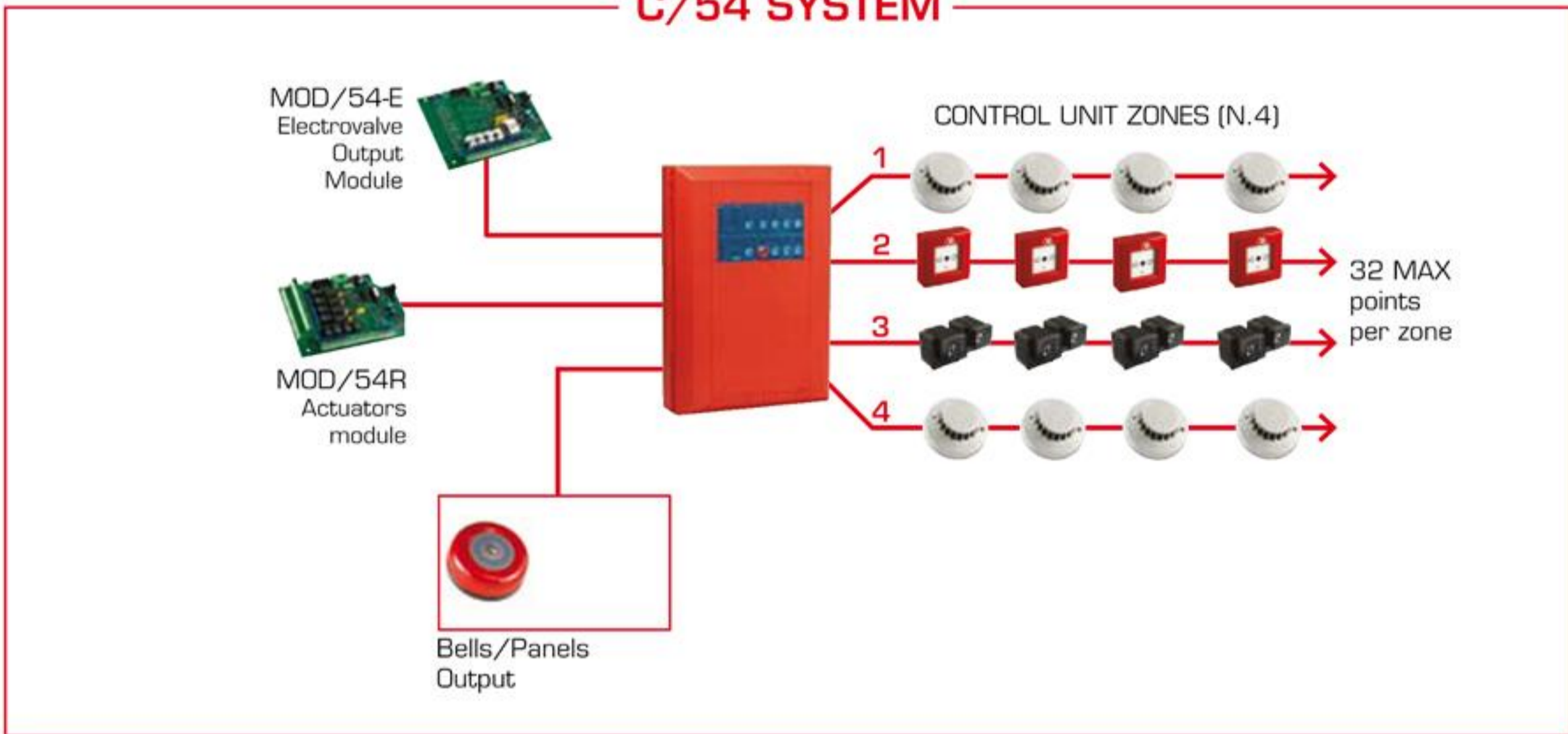


CONVENTIONAL FIRE DETECTION SYSTEMS

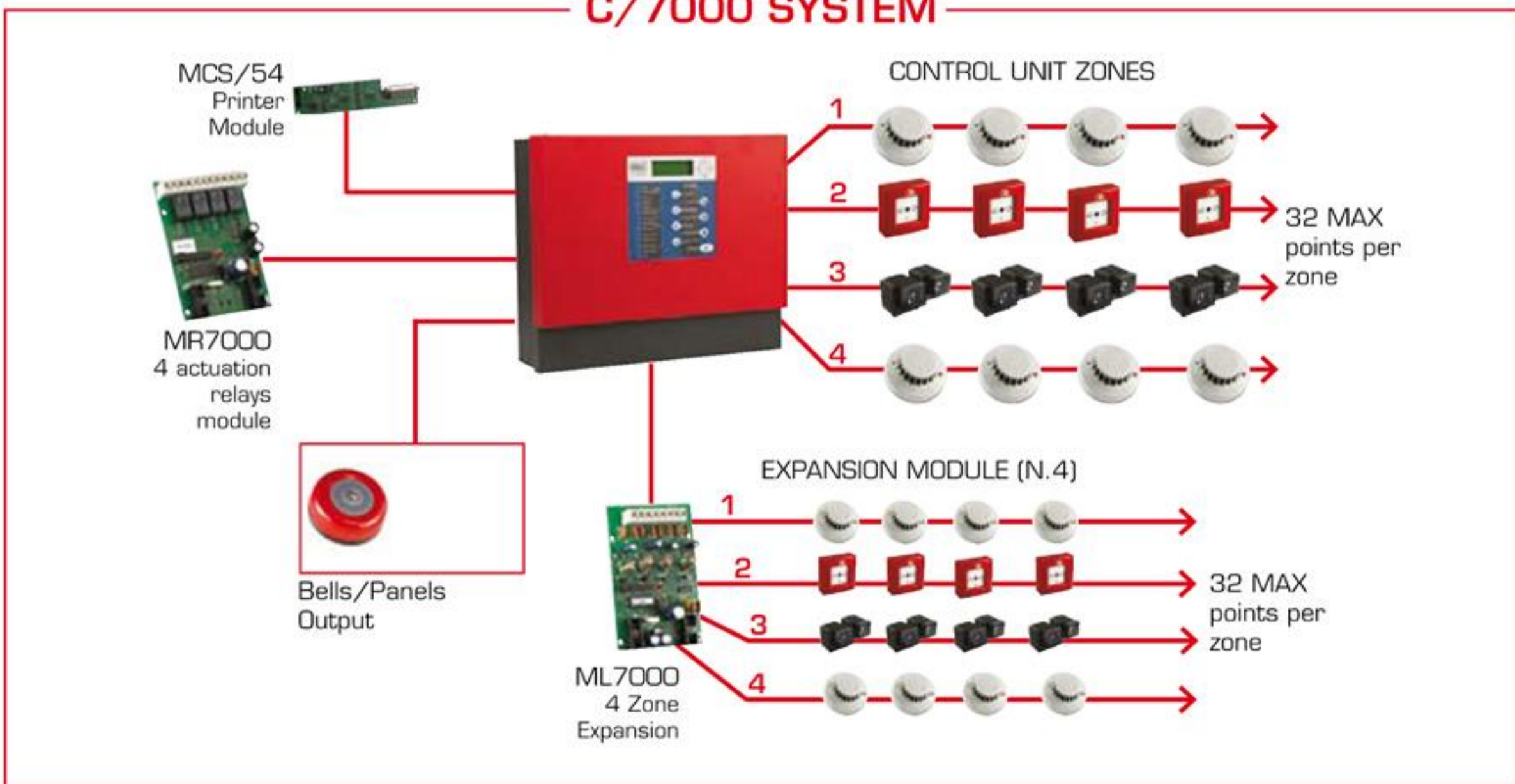
CONVENTIONAL SYSTEMS

Conventional fire detection system by Elkron is proved to be the ideal system for all the systems which do not need a large extent to be available. Anyhow, central unit models, of which one is expandable up to 16 lines with 32 detectors, allow to implement systems fully covering any small to medium firm typology and are proved to be perfectly suitable for residential installations too. The system is completed by its wide range of smoke detectors, gas detectors, pushbuttons and relating signalling.

C/54 SYSTEM



C/7000 SYSTEM



CONVENTIONAL FIRE DETECTION SYSTEMS

SINGLE ZONE CONTROL UNIT

Control Unit C/302

C/302 cod. SC6000121

Single Zone central unit, with microprocessor in polycarbonate, suitable for controlling fire stop doors.

- Internally provided with a smoke optical detector and a heat probe having 60° C intervention threshold.
- The unit is capable to manage either up to 15 (optic or heat) conventional detectors or 2 gas detectors (BPG/213 model) on a conventional line set to single permission.
- Output for electromagnets; the output is capable to support up to 6 electromagnets.
- Supply voltage: 230 Vac 50 Hz
- Output voltage: 24 Vdc
- Max current: 300 mA
- Smoke detector: Optical with Tyndall effect
- Heat detector: Heat probe calibrated to 60° C
- Visual alarm: 1 red led, 1 24 V 2W lamp
- Sound alarm: Buzzer
- Operation temperature: -10°C to +50°C
- Alarm relay output: 1A @ 30 Vdc
- Protection degree: IP 32
- Dimensions (HxLxD): 71 x 283 x 113mm
- Weight (not including batteries): 700 g



C/302



CONVENTIONAL FIRE DETECTION SYSTEMS

FOUR ZONE CONTROL UNIT

C/54 Control Unit

C/54 cod. SC1800121

Compact central unit, with microprocessor, suitable for small size fire and gas systems.

- Composed of a red plastic enclosure made in ABS for wall mounting.
- Italian or English language front side.
- The unit has four independent detection lines, with maximum capacity of 30 devices per line. Each detection line corresponds to a single zone and can be set to either single or double permission.
- The central unit is also equipped with a dry contact relay output for failure, a controlled line for bells and sirens and an output for electromagnets control.
- The central unit is equipped with an electronic circuit to recharge and control the batteries.
- Leak towards the earth signalling on central unit panel.
- Mechanical key to enable programming functions and/or commands (silencing, resetting, cutting off, etc.)
- Facility for adding, into the central unit, an optional module allowing to have either 8 zone relay outputs or a module allowing to control a solenoid valve (MOD54E).
- Number of zones: 4, independent
- Max number of detectors per zone: 30 (Smoke, heat, pushbuttons)
- In compliance with EN 54 parts 2 – 4
- Supply voltage: 230 Vac 50 Hz
- Output voltage: 23 Vdc – 27.6 Vdc
- Max current: 500 mA
- Assignable batteries: 2 x 12V – 7.5 Ah
- Failure central repetition: 1 A 30Vdc relay
- Controlled siren output
- Output for electromagnets
- Relative Humidity: 95 % Max RH non condensing
- Operation temperature: -5° to +50° C
- Protection degree: IP 32
- Dimensions (HxLxD): 386 x 269 x 96 mm
- Weight (not including batteries): 2,7 Kg
- Accessories: control module for siren line (INT-SONG/54 or SONG/54)
Control board for solenoid valve (MOD/54-E), Board with 4 relays for line alarms (MOD/54-R)



C/54



CONVENTIONAL FIRE DETECTION SYSTEMS

FOUR ZONE CONTROL UNIT

Accessories for C/54 control unit

MOD/54-R cod. SC2410121

Module allowing C/54 central unit to increment and differentiate actuation control for each zone.

- The module has 4 aggregated relays (NC or NO max. 1A - 30 VDC): Alarm 1 - Alarm 2 - Exclusion - Mains failure.
- Each Zone has:
- One controlled output for plates, sirens or bells.
- One output for either electromagnets or self-powered siren.
- One exchange dry contact relay (Closed - Normally Closed - Normally Open max. 1 A - 30 VDC), that can be set on either Alarm 1 (Default) or Alarm 2 events.
- Max current which can be supplied by module: 500 mA



MOD/54-R

MOD/54-E cod. SC2510121

Module allowing C/54 central unit to have a dedicated output for controlling a solenoid valve by a programmable activation lag.

- The module has 4 aggregated relays (NC or NO max. 1A - 30 VDC): Alarm 1 - Alarm 2 - Exclusion - Mains failure.
- The module also has following outputs:
 - N° 1 line for manually resetting solenoid electrovalve
 - N° 1 output line for the optical/acoustic signalling that cannot be silenced.
- Max current which can be supplied by module: 500 mA



MOD/54-E

SONG/54 cod. HS0910121

Module to check and actuate bells/plates/sirens.

- It is to be used on controlled outputs in central units.
- The module is to be installed immediately near the device to be checked.
- Dimensions (HxL): 25x30 mm



SONG/54

INT-SONG/54 cod. HS1010121

Intermediate module to check and actuate bells/plates/sirens.

- It is to be used on controlled outputs in central units.
- The module is to be installed immediately near the device to be checked.
- Dimensions (HxL): 25x30 mm



INT-SONG/54



CONVENTIONAL FIRE DETECTION SYSTEMS

MODULAR CONTROL UNIT 4 UP TO 16 ZONES

C/7000

C/7000 cod. SC5200121

Modular conventional fire detection central unit, with 16 bit microprocessor, 4 detection zones expandable up to 16.

- Software in 2 languages (Italian and English), which can be selected by user.
- Facility for connecting up to 32 devices per zone.
- Facility for associating a 16-character text per zone / zone group.
- Backlit alphanumeric display with 4 lines by 20 characters.
- 6 programmable access passwords.
- Relay actuation control independent of the zones.
- Central unit walk test with programmable self-resetting time.
- Evacuation function (Master Alarm) which can be either actuated from keyboard or associated to a single zone.
- Chronological history log with 50 events.
- Programmable central unit alarm timing.
- Auxiliary input which can be set by resetting, acquisition or Master Alarm.
- Number of zones: 4, independent, expandable to 16
- Max number of detectors per zone: 32 (Smoke detectors, heat detectors, pushbuttons)
- Backlit LCD display with 4 lines by 20 characters.
- 6 programmable access passwords
- In compliance with EN 54 parts 2 - 4
- Chronological history log with 50 events.
- Supply voltage: 230 Vac 50 Hz
- Output voltage: 27.6 Vdc
- Max Current: 500mA
- Assignable batteries: 2 x 12V - 7.5 Ah
- Signalling outputs: 2 Alarm relays of 3 A 30Vdc prog. for Alarms 1 2 3
1 Failure relay of 3 A 30Vdc (Closed /NO or Closed/NC)
1 Programmable relay of 3 A 30Vdc (C/NO or C/NC)
- Controlled siren outputs
- Operation temperature: -5° to +50° C
- Relative humidity: 93 % non condensing
- Protection: IP 31
- Dimensions (HxLxD): 454x377x132 mm
- Weight (not including batteries): 9 Kg

C/7000-R cod. SC5300121

- Same characteristics of C/7000 but with 4 relays freely programmable on board



C/7000



CONVENTIONAL FIRE DETECTION SYSTEMS

MODULAR CONTROL UNIT 4 UP TO 16 ZONES

Accessories for C/7000 control unit

SONG/54 cod. HS0910121
Control module for siren line.

INT-SONG/54 cod. HS1010121
Intermediate control module for siren line.

ML7000 cod. SC1A10121
Expansion module for 4 lines.

MR7000 cod. SC7810121
Expansion module for 4 relays.

MCS/54 cod. SC6810121
Module for connecting a printer.



ML7000



MR7000



MCS/54

CONVENTIONAL DETECTORS

Optical Smoke Detector

BP/212 cod. SD3700121

Low profile conventional optical smoke detector.

- Correct operation signalling is from a flashing green led placed on the cap.
- Alarm signalling is from a red led placed on the cap.
- On the detector there are two open collector outputs, one for correct operation signalling, the other for alarm signalling.
- A detector characteristic feature is its intervention threshold self-adjusting capability on its being put on.
- Correct operation green led
- Alarm red led
- Alarm output: 100 mA (O.C.)
- Operation principle: Tyndall effect
- Supply voltage: 11 – 30 Vdc
- Alarm repetition: O.C. 100 mA max
- Operation repetition: O.C. 10 mA max
- Absorption: 100 μ A 18 Vdc at rest , 22 mA 18 Vdc on alarm status
- Magnetic test
- Operation temperature: da -20 a +50 °C
- Relative humidity: 95% max non condensing
- EN 54 part 7 certified.
- Associable to following bases: ZB/200, ZB/201, ZB/204
- Dimensions (HxLxD): Ø 100 x H 45 mm



BP/212



CONVENTIONAL FIRE DETECTION SYSTEMS

CONVENTIONAL DETECTORS

Optical heat detector

BP/212 T cod. SD8900121

Low profile conventional optic heat detector with heat probe having 70° C intervention temperature.

- Correct operation signalling is from a flashing green led placed on the cap.
- Alarm signalling is from a red led placed on the cap.
- On the detector there are two open collector outputs, one for correct operation signalling, the other for alarm signalling.
- Correct operation green led
- Alarm red led
- Alarm output: 100 mA (O.C.)
- Operation principle: Tyndall effect
- Supply voltage: 11 – 30 Vdc
- Alarm repetition: O.C. 100 mA max
- Operation repetition: O.C. 10 mA max
- Absorption: 100 µA 18 Vdc at rest 22 mA 18 Vdc on alarm status
- Magnetic test
- Operation temperature: da -20 a +50 °C
- Relative humidity: 95% max non condensing
- EN 54 part 7 certified.
- Associable to following bases: ZB/200, ZB/201, ZB/204
- Dimensions: Ø 100 x H 45 mm



BP/212T

Differential heat detector

BPT/214 cod. SD3500121

Low profile conventional (thermo-speedometric) differential ratio of rise heat detector with 58°C maximum intervention temperature.

- Correct operation signalling is from a flashing green led placed on the cap.
- Alarm signalling is from a red led placed on the cap.
- Correct operation green led
- Alarm red led
- Alarm output: 100 mA (O.C.)
- Operation principle: pair of heat probes
- Supply voltage: 11 – 30 Vdc
- Alarm repetition: O.C. 100 mA max
- Absorption: 100 µA 18 Vdc at rest 22 mA 18 Vdc on alarm status
- In compliance with EN 54 part 5
- Magnetic test
- Operation temperature: -20 a +50 °C
- Relative humidity: 95% max non condensing
- Associable to following bases: ZB/200, ZB/201, ZB/204
- Dimensions: Ø 100 x H 45 mm



BPT/214



CONVENTIONAL FIRE DETECTION SYSTEMS

CONVENTIONAL DETECTORS

METHANE gas detector

BPG/213 CH4 cod. SD3300121

Methane gas detector with semiconductor (semiconductor head FIGARO) having 2 intervention thresholds which can be calibrated and are independent.

- Both alarm thresholds are stored and transmit, to control central unit, two quite differentiated signals allowing to operate by steps on actuations on field.
- Operation voltage: 12 – 30 Vdc
- Average absorption with fixed supply: 45 mA a 27 Vdc
- Pre-alarm absorption: 20 mA a 18 Vdc
- Alarm absorption: 40 mA a 18 Vdc
- Alarm signal repetition: 100 mA (O.C.)
- Pre-alarm visual repetition: yellow led
- Visual alarm repetition: red led
- Relative humidity: 95% max non condensing
- Adjustable alarm threshold: 5% to 100% E.L.L.
- Detectable gasses: methane
- Dimensions: Ø 100 x H 45 mm



BPG/213 CH4

GPL gas detector

BPG/213 GPL cod. SD1J00121

GPL gas detector with semiconductor (semiconductor head FIGARO) having 2 intervention thresholds which can be calibrated and are independent.

- Both alarm thresholds are stored and transmit, to control central unit, two quite differentiated signals allowing to operate by steps on actuations on field.
- Operation voltage: 12 – 30 Vdc
- Average absorption with fixed supply: 45 mA a 27 Vdc
- Pre-alarm absorption: 20 mA a 18 Vdc
- Alarm absorption: 40 mA a 18 Vdc
- Alarm signal repetition: 100 mA (O.C.)
- Pre-alarm visual repetition: yellow led
- Visual alarm repetition: red led
- Relative humidity: 95% max non condensing
- Adjustable alarm threshold: 5% to 100% E.L.L.
- Detectable gasses: GPL
- Dimensions: Ø 100 x H 45 mm



BPG/213 GPL

CONVENTIONAL PUSH BUTTONS

Buttons

P440 cod. SB3800121

Red alarm conventional pushbutton with recommissioning.

- Visual alarm repetition: red led
- Weight: 100 g
- Alarm absorption: 20 mA @ 18 Vdc
- Actuation Type: Recommissioning
- Dimensions (HxLxD): 110 x 110 x 42 mm



P440



CONVENTIONAL FIRE DETECTION SYSTEMS

CONVENTIONAL PUSH BUTTONS

Buttons

P445 cod. SB3500121

Red alarm conventional pushbutton with breaking.

- Visual alarm repetition: red led
- Alarm absorption: 20 mA @ 18 Vdc
- Actuation Type: Breaking
- EN54 part 1
- Weight: 100 g
- Dimensions (HxLxD): 110 x 110 x 42 mm



P445

1469 cod. SB4600123

Break glass outdoor red alarm conventional pushbutton made in die-cast aluminium.

- Alarm absorption: 20 mA @ 18 Vdc
- Actuation Type: Breaking
- Protection degree: IP 65
- Alarm resistance: 820 ohm 2W
- Weight: 400 g
- Dimensions (HxLxD): 95x95x 42 mm



1469

2470 cod. SB4400121

Break glass red alarm conventional pushbutton with transparent protection cover.

- Visual alarm repetition: red led
- Weight: 180 g
- Alarm absorption: 20 mA @ 18 Vdc
- Actuation Type: Breaking
- Protection degree: IP 54
- Alarm resistance: 820 ohm 2W
- Dimensions (HxLxD): 85x85x52 mm



2470

3470 cod. SB4300123

Break glass red alarm conventional pushbutton.

- Visual alarm repetition: red led
- Weight: 120 g
- Alarm absorption: 20 mA @ 18 Vdc
- Actuation Type: Breaking
- Protection degree: IP 30
- Alarm resistance: 820 ohm 2W
- Dimensions (HxLxD): 84 x 120 x 31 mm



3470

P/406 cod. SB3000121

Pushbutton for fire manual signalling, with explosion proof shell, for areas with a potentially explosive atmosphere.

- Hammer for glass breaking provided. Pushbutton made of diecast material, red colour epoxy painting.
- Cable entry holes: 2x3/4 gas
- Classified: II 2GD EEx d IIB T6, EEx d IIB + H2 T6
- Certified: CESI 03 ATEX 050
- Operation temperature: -20 C° to + 50 C°
- Weight: 1.1 kg



P/406

1471 cod. SB5700123

Hammer

