Automatic conventional fire detection and fire alarm control panel with extinguishing functionality.

CLVR 02EXT: 2 zones extinguishing control panel.

The control panel incorporates a third configurable zone as conventional separate zone from extinction in order to protect against fire small areas close to the flood/extinction zone, or allow the supervision of an external fire protection system giving a fault indication, such as a pressure switch contact.

CLVR control panel characteristics are common among all its models.

Features:

- 2 zones control panel with extinguishing functionality for conventional detectors and call points use.
- Third additional zone configurable as an alarm and detection zone for conventional detectors and call points or as a monitoring input of an external fire protection system.
- Same technical features as conventional CLVR control panels (2 general sounder outputs, 1 alarm output, 1 fault output, 230Vdc outputs, test mode, threshold setup, metallic cabinet, etc).
- 3 modes of operating extinction:
    - Standard mode: Output R1 of pre-warning is activated with Zone 1 or Zone 2 in alarm status.
    - Consecutive mode: Output R1 is activated intermittently (1 second with Zone 1 or Zone 2 in alarm status, 0,5 seconds with Zones 1 and 2 in alarm status, and continuing once the output R2 delay is finished).
    - Simultaneous mode: Output R1 is activated with Zones 1 and 2 in alarm status.
- Stop and activation extinguishing button directly in the control panel.
- Possibility to install manual stop and activation buttons near the flood zone.
- 1 extinction output ("R2") supervised, temporized supervised, temporized between 0 and 60 seconds, protected by a resettable fuse.
- Delay for R2 extinguishing output reset after extinguishing activation temporized between 0 and 30 minutes.
- MODBUS protocol over RS485 on demand.
- Possibility of ON-LINE software in a PC using the MODBUS functionality.
- CONTACTID on demand.
- Certified according EN 54-2, EN 54-4 and EN 12094-1 with CE mark.

TECHNICAL FEATURES

Supply voltage	110/230VAC 50/60Hz	End of line capacitor	4 K7
Output voltage	21 V Nominal	Sounder output voltage	30 V/DC
Max. consumption	70 VA at 230 V/AC	Environmentals conditions	-10ºC +50ºC
Batteries	2 x 12 V 7 Ah SLA	Size	363 x 331 x 96 mm
Extinction fuse R1/R2	0,5A/0,75A autoreset	Weight (without batteries)	4,3 Kg
Batteries charger	500 mA 27 V/DC 20ºC	Standard	EN 54-2, EN 54-4 & EN 12094-1
Devices par zone	32	30v max. current output	1,5 A
Control panel power supply	2,2 A	Extinction module fuse	1,85 A autoreset
Max. current per zone	2 mA (In standby)	S1 output sounder fuse	1,85 A autoreset
		S2 output sounder fuse	0,75 A autoreset
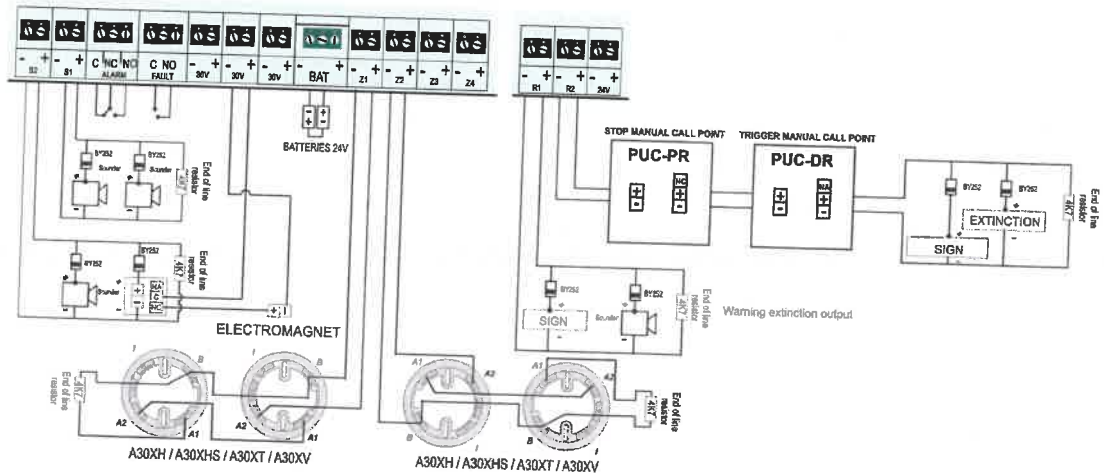
Example of connection with extinction
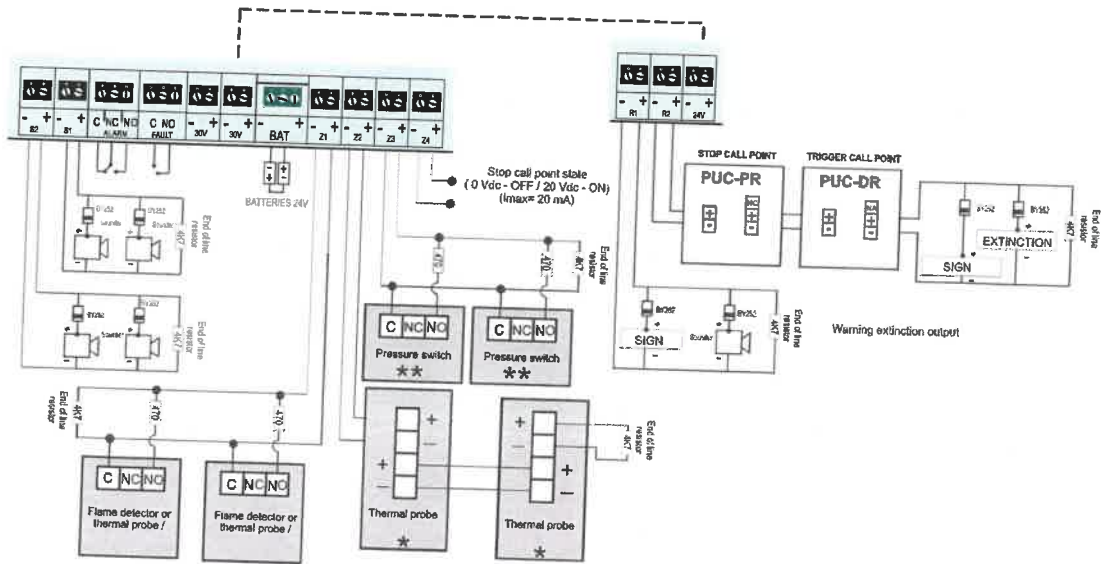
*Note 1: The wiring diagram of the thermal probe depends of the model.
**Note 2: Zone 3 used for monitoring the pressure switch.

Example of wiring diagram with flame detectors, thermal probes and pressure switches

Automatic conventional fire detection and fire alarm control panel.

This control panel provides different versions to fit more accurately to the needs of each facility:

· CLVR 02Z: CLVR Control panel up to 2 zones.
· CLVR 04Z: CLVR Control panel up to 4 zones.
· CLVR 08Z: CLVR Control panel up to 8 zones.
· CLVR 12Z: CLVR Control panel up to 12 zones.

CLVR control panels features are common in all its models.

Features:

- Control panels up to 12 zones for conventional detectors and call points use.
- 2 supervised sounder outputs, delayed from 0 to 10 minutes, and protected by a fuse.
- 1 alarm output through a dry contact NO/NC (normally open / normally closed).
- 1 fault output through a dry contact NO/NC (normally open / normally closed).
- 2 auxiliary outputs 30V/DC supervised and protected by a fuse to feed external (magnetic fire doors, sounders, etc).
- Available testing mode to facilitate the quick and easy verification of the sensors and call points.
- It allows to configure the open line, alarm detector and alarm call point threshold, to adjust to the operation with other detectors.
- It allows to configure the last detection zone as a supervision input of a external protection fire system with a fault indication.
- Metallic chest with frontal bolted door, 4 predrilled of 28 mm and one rectangular else of 140 x 20 mm for electric wiring and space for 2 batteries of 7Ah.
- RS485 MODBUS protocol on-demand.
- Possibility of software ON-LINE on PC using MODBUS functionality.
- CONTACTID on-demand.
- Certified according to EN 54-2 & EN 54-4 standards and CE mark .

TECHNICAL FEATURES

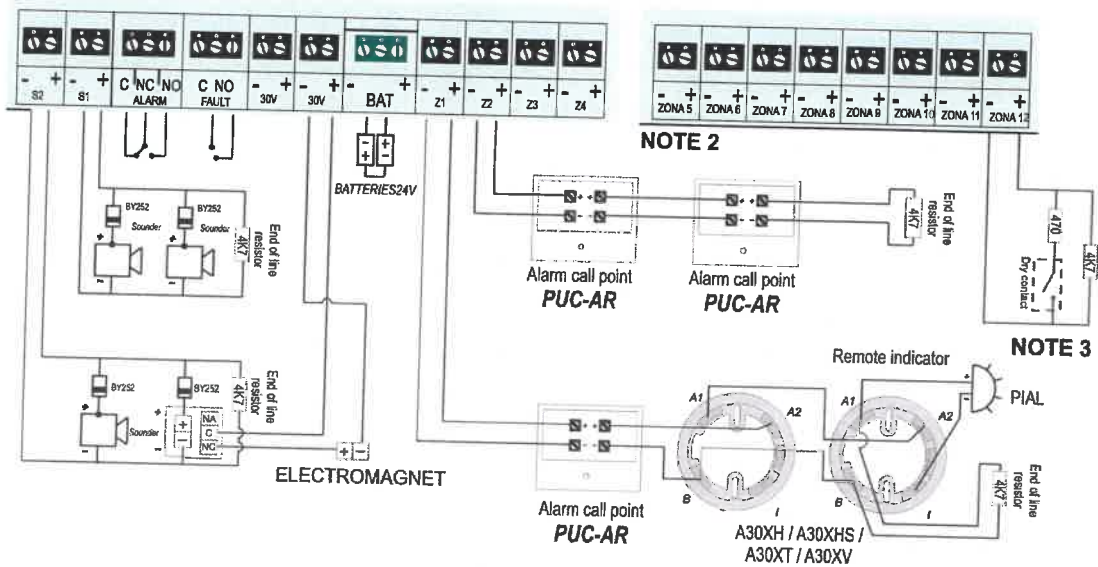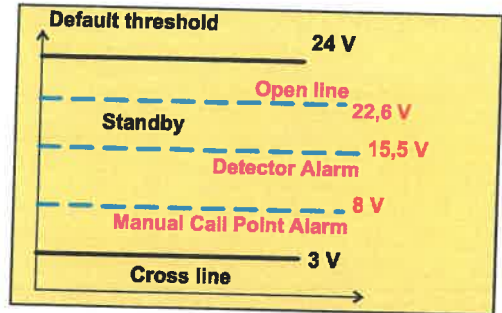| Input voltage	110/230VAC 50/60Hz	End of line capacitor	4 K7
Output voltage	21 V Nominal	Sounder output voltage	30 V/DC 2 A
Maximum consumption	70 VA to 230 V/AC	Fault output	Yes, dry contact
Batteries	2 x 12 V 7 Ah SLA	Environmental conditions	-10°C +50°C
Max. voltage 30V output	0,75A / 1,50A[(1)] AUTORESET	Size	363 x 331 x 96 mm
Battery charger	500 mA 27 V/DC 20°C	Weight (without batteries)	4,3 Kg
Devices per zone	32	Standar	EN 54-2, EN 54-4 & EN 12094-1
Control panel power supply	2,2 A	Sounder output fuse S1	1A / 1,85A[(1)]Autoreset
Maximum current per zone	2 mA (standby)	Sounder output fuse S2	1A / 0,75A[(1)]Autoreset

[(1)]CLVR08Z and CLVR12Z control panels

CONVENTIONAL SYSTEM

Wiring diagram

NOTE1

* Only CLVR02Z / CLVR04Z

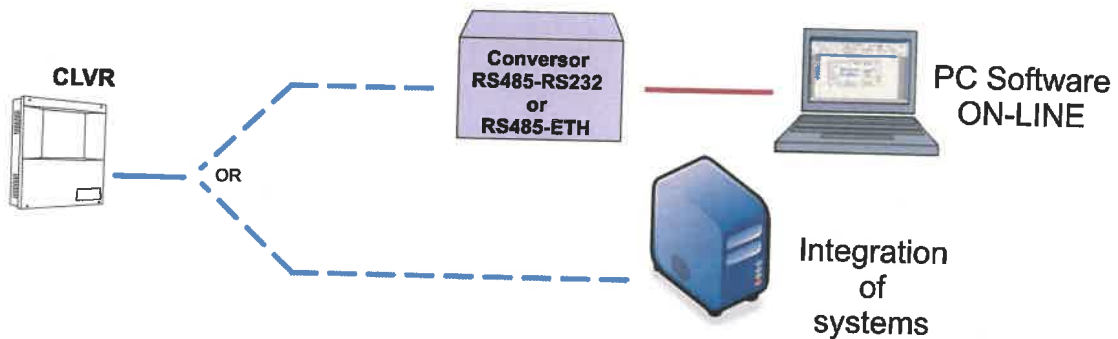| Default threshold	
	24 V
Open line	22,6 V
Standby	15,5 V
Detector Alarm	8 V
Manual Call Point Alarm	
Cross line	3 V

NOTE 1: Zones 3 and 4 are not functional in CLVR02Z control panel.
NOTE 2: This card contains 4 or 8 zones depending on the model (CLVR08Z/CLVR12Z).
NOTE 3: Last zone configured for external system monitoring.

Example of general wiring diagram

Example of connection for MODBUS functionality

A30XHA
A30XHAS

Algorithmic addressable smoke optical sensor

Algorithmic addressable optical smoke sensor for fire detection.

The optical smoke sensor A30XHA / A30XHAS is based on the Tyndall effect (light refraction in a dark chamber) created in an optical chamber.

The variation of the electrical features of the chamber in the presence of combustion aerosols makes it suitable for smoke sensing.

The sensor A30XHA (optical-heat sensor) also has a static heat element that sets it into alarm status when temperature reaches 60°C.

Features:

- Low section, total height less than 53,4 mm (including the base).
- Available with high base for electrical conduit of 20 mm.
- Alarm with two red LED, which makes easier the identification from any direction (360°).
- Possibility to connect a remote action indicator.
- Easy connection, without polarity.
- A single flash of LED indicators shows communication with the control panel, and alarm status with LED on.
- Indication of contamination status of the sensor in the control panel display (the sensor discriminates between fast alarm signal and slow and sustained small increases due to the accumulation of dust and dirt).
- Detector and base with easy installation, interchangeable with the entire of range A30X, and manufactured in white heat-resistant ABS.
- According to EN 54-7 Standard, and CE mark according to the European Regulation of Construction Products (UE) N°305/2011.

TECHNICAL FEATURES

Power Supply	24 - 35V non-polarized
Standby Current	1 mA
Alarm Current	5 mA
Activation Signal	Two Red LED (360° visibility)
Remote Indicator Output	Yes
Humidity	20 - 95% RH
Temperature	-10°C +50°C
Sensitivity	According to EN 54-7
IP Protection A30XHA	IP 20
IP Protection A30XHAS	IP 40

76,4

Ø108,6

High base assembly

53,4

Ø107

Low base assembly
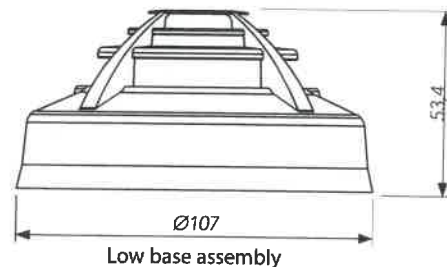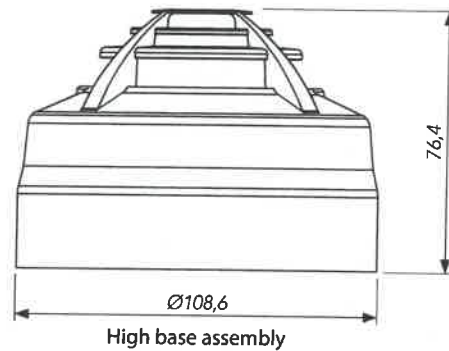
Other colors on request

A30XTA

Algorithmic addressable heat sensor

Algorithmic addressable heat sensor for fire detection.

The A30XTA sensor is based on the physical properties of a NTC. The variation of the electrical features of the NTC thermistor due to variation of room temperature makes it suitable for a heat sensor.

The A30XTA is capable of registering absolute temperatures (heat sensor) but also temperature rises (rise of heat rate sensor).

The heat rate function allows detect a fire in the first phases of its growth. If it is very slow, the sensor is activated when temperature reaches 60°C.

Features:

* Low section, total height less than 45 mm (including the base).
* Available with high base for electrical conduit of 20 mm.
* Alarm with two red LED, which makes easier the identification from any direction (360°).
* Possibility to connect a remote action indicator.
* Easy connection, without polarity.
* A single flash of LED indicators shows communication with the control panel, and alarm status with LED on.
* Detector and base with easy installation, interchangeable with the entire of range A30X, and manufactured in white heat-resistant ABS.
* According to EN 54 part 5 class A2R (sensors with heat rise function), and CE mark according to the European Regulation of Construction Products (UE) N°305/2011.
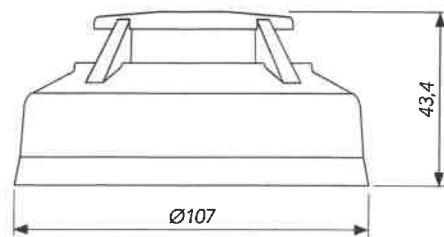
TECHNICAL FEATURES

Power Supply	24 - 35V non-polarized
Standby Current	1 mA
Alarm Current	5 mA
Activation Signal	Two Red LED (360° visibility)
Remote Indicator Output	Yes
Humidity	20 - 95% RH
Temperature	-10°C +50°C
Sensitivity	According to EN 54-5 Class A2R
IP Protection	IP 20

Ø108,6

66,4
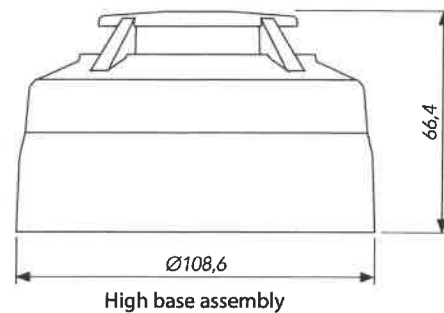
High base assembly

Other colors on request

Ø107

43,4

Low base assembly

# PUCAY

Resettable manual call point

Resettable Manual Call Point (with short-circuit isolator) for algorithmic addressable detection systems.

It has a LED that lights up when the call point is manually triggered (alarm), as well as showing a yellow tab on the lower side of the activation face. A single flash shows communication with the control panel.

It is easy to reset through activation of the yellow button sited in the front face by means of a screwdriver.

Features:

- Easily resettable call point by pushing yellow button on the front side.
- Transparent protector cover to avoid accidental false alarms.
- Self-identified element in the fire detection algorithmic and addressable.
- Communication with the control panel is indicated by a single flash of the LED.
- Immediate visual recognition of alarm status by the permanent activation of the LED, and the trigger of the yellow tab on the lower side of the activation face.
- According to EN 54-11 Standard, and CE mark according to the European Regulation of Construction Products (UE) N°305/2011.


A30XHA / A30XHAS / A30XTA / A30XHTCO
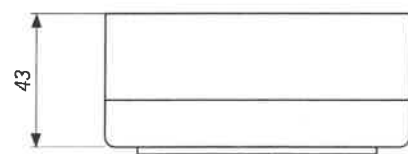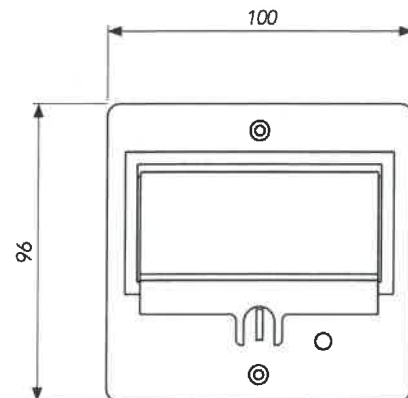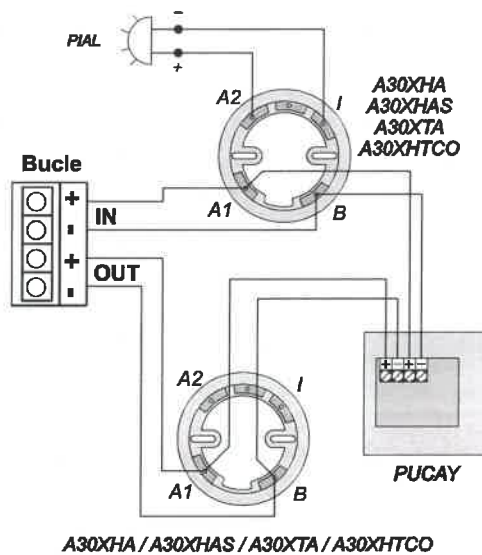
TECHNICAL FEATURES

Power Supply	24 - 35V with polarity
Standby Current	1 mA
Alarm Current	5 mA
Activation Signal	Red Light
Remote Indicator Output	No
Humidity	20 - 95% RH
Temperature	-10ºC +50ºC
Standard	EN 54-11
IP Protection	IP 50

Sound level (dB-(A))	Distance (m)
120	1
114	2
108	4
102	8
96	16
90	32
84	64

ACOUSTIC GENERAL RULES

- Every time you double the distance, 6 dBs are lost.
- 30 dBs are lost for every fire door.
- 20 dBs are lost for every normal door.
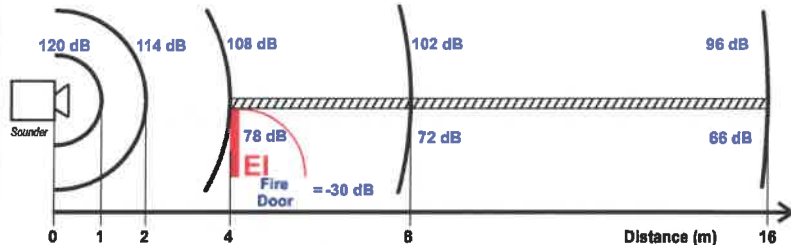
Indoor sounders to be directly connected to the output of control panels or relay modules.
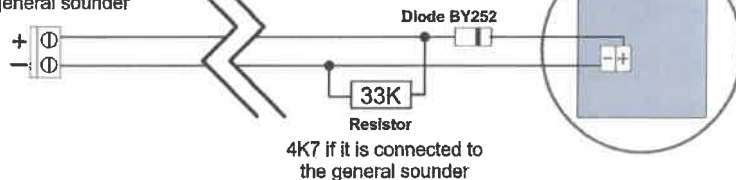
ALARM BELL 6" CA6

Output voltage	24 Vcc
Consumption	25 mA
Output volume	95 dBA at 1 meter
	92 dBA at 3 meters
Operative temperature	-20°C to 60°C
Humidity	Max. 90% RH
Size	6" (150 mm x 56 mm)
Weight	764g
IP protection	IP33

SIR24P & SIR24F SOUNDERS

Material	red P.V.C.
Operating voltage	30 Vdc
Consumption at 30 Vdc	70 mA
Sound level	85 dB
Operating temperature	5°C to 40°C
Size	80 x 80 x 30 mm
With intermittent flash	Only SIR24F model