

# Sigma A-XT

## Extinguishant Control Panel



### Features

- UL864 and FM listed
- Three initiation circuits as standard
- Any single zone or any combinations of zones can be configured to release
- Configurable first stage NAC delays
- Configurable detection delays
- Zero time delay upon manual release option
- Compatible with I.S. barriers
- Non-latching zone input option to receive signals from other systems such as aspirating equipment
- Configurable releasing delays up to 60 seconds in 5 second steps
- Configurable releasing duration up to 5 minutes in 5 second steps
- Countdown timer shows time remaining until release
- Supports up to seven, four wire status indicators
- Built in Extract Fan control

### Programmable Functions

#### Access Level 2

- Test Zones 1 to 3
- Disable Zones 1 to 3
- Disable 1st Stage Alarms
- Disable Pre-activated 1st Stage Relay
- Disable Pre-activated 2nd Stage Relay
- Disable Extract Fan Output
- Disable Manual Release Input
- Disable Releasing Sub System
- Activate Extract Fan Output
- Activate Alarm Delays

#### Access Level 3

- Sounder Delay
- Coincidence Detection
- Disable Panel Features
- Zone Alarm Delays (Detectors)
- Zone Alarm Delay (Call stations)
- Configure Zone for I.S. Barrier Use
- Zone Short Circuit Alarm
- Zone Non Latching
- Zone Inputs Delay
- Extinguishant Release Time Delay
- Extinguishant Release Duration Timer
- Extinguishant Reset Delay Timer

NOT  
SUITABLE  
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MARKETS

### Product Overview

- Designed and manufactured to the highest standards in a quality controlled environment and with UL and FM approvals, the Sigma A-XT releasing panel offers outstanding value and performance for all small to medium fixed firefighting installations.
- With three initiation circuits as standard, release can be configured to activate from any combination of detection zone inputs to allow (among other combinations) any two from three type activations such as would be required for detection in ceiling void, room and floor void applications.
- The extensive configuration options of the Sigma A-XT allow the functionality of the system to be extensively modified.
- The panel contains a large LED display to enable easy configuration and control which also displays the time remaining until release for added user safety.
- The countdown timer is duplicated on up to seven remote status units to provide local indication of the system status.
- With all of the electronics mounted on a single, easily removable, steel plate Sigma A-XT panels are both robust and easy to install.
- Sigma A-XT is supplied in an enclosure that matches the design and colour of the Elite RS range and is available in standard red or optional grey.

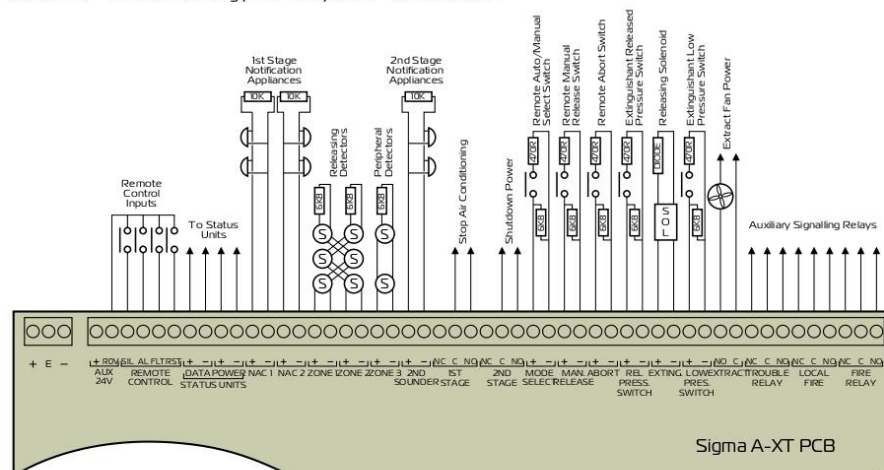


## Technical

|                                                 |                                                     |
|-------------------------------------------------|-----------------------------------------------------|
| <b>Construction</b>                             | - 1.2mm mild sheet steel                            |
| <b>IP Rating</b>                                | - IP30                                              |
| <b>Finish</b>                                   | - Epoxy powder coated                               |
| <b>Colour - lid &amp; box</b>                   | - Red RAL 3002 (optional grey BS 00 A 05 semi-matt) |
| <b>Mains supply</b>                             | - 230V AC or 115V AC                                |
| <b>Mains supply fuse</b>                        | - 1.6 Amp (F1.6A L250V)                             |
| <b>Power supply rating</b>                      | - 3 Amps total including battery charge 28V +/- 2V  |
| <b>Maximum ripple current</b>                   | - 200 millivolts                                    |
| <b>Battery type (Yuasa NP)</b>                  | - Two 12 Volt 7Ah sealed lead acid in series        |
| <b>Battery charge voltage</b>                   | - 27.6V/DC nominal (temperature compensated)        |
| <b>Battery charge current</b>                   | - 0.7A maximum                                      |
| <b>Battery fuse</b>                             | - 20mm, 3.15A glass                                 |
| <b>Maximum current draw from batteries</b>      | - 3 Amps                                            |
| <b>Quiescent current of panel in mains fail</b> | - 0.095A                                            |
| <b>R0V output</b>                               | - Fused at 500mA with electronic fuse               |
| <b>Sounder outputs</b>                          | - 24V Fused at 500mA with electronic fuse           |
| <b>Fault relay contact rating</b>               | - 30VDC 1A Amp maximum                              |
| <b>Fire relay contact rating</b>                | - 30VDC 1A Amp maximum                              |
| <b>Local fire relay contact rating</b>          | - 30VDC 1A Amp maximum                              |
| <b>First stage contact rating</b>               | - 30VDC 1A Amp maximum                              |
| <b>Second stage contact rating</b>              | - 30VDC 1A Amp maximum                              |
| <b>Extract contact rating</b>                   | - 30VDC 1A Amp maximum                              |
| <b>Zone quiescent current</b>                   | - 2mA maximum                                       |
| <b>Terminal capacity</b>                        | - 12 AWG                                            |
| <b>Number of detectors per zone</b>             | - Dependent on type (maximum 32)                    |
| <b>NAC rating</b>                               | - 0.5A per circuit                                  |
| <b>Detection circuit end of line</b>            | - 6K8 5% ½ Watt resistor                            |
| <b>Monitored input end of line</b>              | - 6K8 5% ½ Watt resistor                            |
| <b>Sounder circuit end of line</b>              | - 10K 5% ¼ Watt resistor                            |
| <b>Extinguishant output EOL</b>                 | - 1N4004 Diode                                      |
| <b>No. of initiating circuits</b>               | - 3                                                 |
| <b>No. of NAC circuits</b>                      | - 2 x 1st Stage, 1 x 2nd Stage                      |
| <b>Extinguishant release output</b>             | - Fused at 1 Amp                                    |
| <b>Extinguishant release delay</b>              | - Adjustable 0 to 60 seconds (in 5 second steps)    |
| <b>Extinguishant release duration</b>           | - Adjustable 60 to 300 seconds (in 5 second steps)  |
| <b>SIL, AL, FLT, RST inputs</b>                 | - Switched -ve, max resistance 100 Ohms             |
| <b>Zone normal threshold</b>                    | - 8K ohms to 1K ohm                                 |
| <b>Detector alarm threshold</b>                 | - 999 ohms to 400 ohms                              |
| <b>Call point alarm threshold</b>               | - 399 ohms to 100 ohms                              |
| <b>Short circuit threshold</b>                  | - 99 ohms to 0 ohms                                 |
| <b>Monitored inputs normal threshold</b>        | - 8K ohms to 1K ohm                                 |
| <b>Monitored inputs alarm threshold</b>         | - 999 ohms to 100 ohms                              |
| <b>Monitored inputs Short circuit threshold</b> | - 99 ohms to 0 ohms                                 |
| <b>Status unit/Ancillary board connection</b>   | - Two wire RS485 connection                         |
| <b>Status unit power output</b>                 | - Fused at 500mA with electronic fuse               |

## Panels

| Product Code    | Description                        | Size (mm)      |
|-----------------|------------------------------------|----------------|
| <b>K1810-12</b> | Surface mounting panel - Red 115V  | 368 x 310 x 90 |
| <b>K1810-44</b> | Surface mounting panel - Grey 115V | 368 x 310 x 90 |
| <b>K1810-13</b> | Surface mounting panel - Red 230V  | 368 x 310 x 90 |
| <b>K1810-43</b> | Surface mounting panel - Grey 230V | 368 x 310 x 90 |



# Series 65A

## Heat Detector



### Product overview

| Part No                   | Detector type                                             |
|---------------------------|-----------------------------------------------------------|
| 55000-140USA <sup>1</sup> | Heat Detector - 135°F                                     |
| 55000-139APO <sup>2</sup> | Heat Detector - 135°F with flashing LED                   |
| 55000-138APO <sup>3</sup> | Heat Detector - 135°F with flashing LED and magnetic test |
| 55000-143APO <sup>4</sup> | Heat Detector - 170°F                                     |
| 55000-142USA <sup>2</sup> | Heat Detector - 170°F with flashing LED                   |
| 55000-141APO <sup>3</sup> | Heat Detector - 170°F with flashing LED and magnetic test |
| 55000-146APO <sup>2</sup> | Heat Detector - 200°F                                     |
| 55000-145APO <sup>2</sup> | Heat Detector - 200°F with flashing LED                   |
| 55000-144APO <sup>3</sup> | Heat Detector - 200°F with flashing LED and magnetic test |

### Compliance



### Product information

The Series 65A Heat Detector monitors temperature by using a dual thermistor network providing a voltage output proportional to the external air temperature. The nine detectors in the Series 65A range are designed to suit a wide variety of operating conditions.

- Ideal in environments that are dirty or smoky under normal conditions
- Wide operating voltage
- Flashing LED option
- Flashing LED and magnetic test switch option

### Technical data

All data is supplied subject to change without notice. Specifications are typical at 24V, 73°F and 50% RH unless otherwise stated.

|                                          |                                                                                          |
|------------------------------------------|------------------------------------------------------------------------------------------|
| Detection principle                      | Two matched NTC thermistors                                                              |
| Sampling frequency                       | Continuous                                                                               |
| Supply voltage                           | 9 - 33 V dc                                                                              |
| Supervisory current (dependent on model) | 40 µA to 50 µA at 9 V<br>45 µA to 55 µA at 24 V                                          |
| Surge current                            | 0 mA                                                                                     |
| Alarm current                            | 17 mA at 9 V, 52 mA at 24 V                                                              |
| Installation temperature                 | Min 32 °F, Max at least 20 °F below rating                                               |
| Humidity                                 | 0% to 95% RH (no condensation or icing)                                                  |
| Standards and approvals                  | UL, FM, CSFM                                                                             |
| Dimensions                               | 3.93 in. dia. x 1.65 in. height                                                          |
| Weight                                   | 2.80 oz                                                                                  |
| Materials                                | Housing: White flame-retardant polycarbonate<br>Terminals: Nickel plated stainless steel |
| Test method                              | Magnet or hair dryer                                                                     |
| Spacing                                  | Smooth ceiling 50 ft<br>to wall or partition 25 ft                                       |

### Part Numbers and Approvals

1. CSFM only
2. UL, FM and CSFM only
3. UL and CSFM only
4. UL, FM, CSFM

36 Brookside Road, Havant  
Hampshire, PO9 1JR, UK.

Tel: +44 (0)23 9249 2412  
Fax: +44 (0)23 9249 2754

Email: sales@apollo-fire.com  
Web: www.apollo-fire.co.uk

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### Function

The Series 65A Heat Detector works by monitoring heat using a dual thermistor network which provides a voltage output proportional to the external air temperature.

### Operation

The Heat Detector has a common profile with the Series 65A ionization and photoelectric detectors but has a low air flow resistance case made of white self-extinguishing polycarbonate.

A pair of matched negative temperature co-efficient (NTC) thermistors are mounted on the internal PCB in such a way that one thermistor is exposed to give good heat contact with the surrounding air while the other thermistor is heat insulated.

Under normal conditions both thermistors are in heat equilibrium and have the same value of resistance. If air temperature increases rapidly the resistance of the exposed thermistor becomes less than that of the insulated thermistor. The ratio of the resistance of the thermistors is monitored electronically and an alarm is initiated if the ratio exceeds the factory pre-set level. This determines the 'rate-of-rise' response of the detector.

### Environmental characteristics

The Series 65A Heat Detector is unaffected by wind or atmospheric pressure and operates over the temperature range -4°F to +140°F.

### Electrical description

The Series 65A Heat Detector is designed to be connected to a two wire loop circuit carrying both data and a 9 V to 33 V dc supply. The detector is connected to the incoming and outgoing supply via terminals L1 and L2 in the mounting base. A remote LED indicator requiring not more than 4 mA at 5 V may be connected between the +L1 IN and -R terminals. An earth connection terminal is also provided.

**Response characteristics of Series 65A Heat Detectors**

| Type of fire                   | Heat Detector |
|--------------------------------|---------------|
| OverHeating/Heat combustion    | Very poor     |
| Smouldering/glowing combustion | Very poor     |
| Flaming combustion             | Poor          |
| Flaming with high Heat output  | Moderate/Good |
| Flaming - clean burning        | Moderate/Good |

**Compatible bases for the Series 65A Heat Detector**

| Part No.  | Description                          |
|-----------|--------------------------------------|
| 45681-200 | Series 65A mounting base             |
| 45681-220 | 4" Series 65A standard mounting base |
| 45681-232 | 6" Low profile base                  |
| 45681-251 | 6" E-Z fit base                      |
| 45681-255 | 4" Standard relay base               |
| 45681-256 | 4" Auxiliary relay base              |
| 45681-257 | 4" 12 V End-of-Line relay base       |
| 45681-258 | 4" 24 V End-of-Line relay base       |

# Series 65A

## Photoelectric Smoke Detector



### Product overview

|          |                                                                  |
|----------|------------------------------------------------------------------|
| Product  | Photoelectric Smoke Detector                                     |
| Part No. | 55000-327                                                        |
| Part No. | Photoelectric Smoke Detector with flashing LED                   |
| Part No. | 55000-326                                                        |
| Product  | Photoelectric Smoke Detector with flashing LED and magnetic test |
| Part No. | 55000-325                                                        |
| Product  | Photoelectric Smoke Detector - high sensitivity                  |
| Part No. | 55000-328                                                        |

### Compliance



### Product information

The Series 65A Photoelectric Smoke Detector works on the light scatter principle and is ideal for applications where slow burning or smouldering fires are likely.

- Responds well to slow burning, smouldering fires
- Well suited to bedrooms and escape routes
- Unaffected by wind or atmospheric pressure
- Wide operating voltage
- High-sensitivity option
- Flashing LED option
- Flashing LED, and magnetic test option

### Technical data

All data is supplied subject to change without notice. Specifications are typical at 24V, 73°F and 50% RH unless otherwise stated.

|                             |                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------|
| Sensitivity                 | 3.0 + 1.0 - 1.98 %/ft                                                                    |
| Working voltage             | 9 V to 33 V dc                                                                           |
| Supervisory current         | 40 - 50 µA at 9 V<br>45 - 55 µA at 24 V                                                  |
| Surge current               | 0 mA                                                                                     |
| Alarm current               | 17 mA at 9 V<br>52 mA at 24 V                                                            |
| Operating temperature range | 32 °F to 140 °F                                                                          |
| Air velocity                | 0 - 300 fpm                                                                              |
| Standards and approvals     | UL, ULC, CSFM, FM, MSFM                                                                  |
| Dimensions                  | 3.93" diameter x 1.65" height                                                            |
| Weight                      | 3.50 oz                                                                                  |
| Materials                   | Housing: White flame-retardant polycarbonate<br>Terminals: Nickel plated stainless steel |
| Test                        | Magnet or Gemini 501                                                                     |

36 Brookside Road, Havant  
Hampshire, PO9 1JR, UK.

Tel: +44 (0)23 9249 2412  
Fax: +44 (0)23 9249 2754

Email: sales@apollo-fire.com  
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## Function

The Series 65A Photoelectric Smoke Detector works on the light scatter principle and is ideal for applications where slow burning or smouldering fires are likely.

## Operation

The Series 65A Photoelectric Smoke Detector uses the same outer case as the ionization smoke detector and is distinguished by the indicator LED which is clear in standby and red in alarm. Within the case is a printed circuit board which on one side has the light proof labyrinth chamber with integral gauze surrounding the optical measuring system and on the other the address capture, signal processing and communications electronics.

An infrared light emitting diode within its collimator is arranged at an obtuse angle to the photo-diode. The photo-diode has an integral daylight blocking filter.

The infrared LED emits a burst of collimated light every three seconds. In clear air the photo-diode receives no light directly from the infrared LED because of the angular arrangement and the dual mask. When smoke enters the chamber a fraction of the collimated light is scattered onto the photo-diode. If the resulting signal from the photo-diode is above a pre-set threshold the LED emits two more bursts of light, this time at two-second intervals. If light is scattered onto the photo-diode by both these pulses- due to the presence of smoke - the detector signals an alarm state by switching the alarm latch on, increasing the current drawn from the supply from about 40  $\mu$ A to a maximum of 52 mA. This fall in the impedance of the detector is recognised by the control panel as an alarm signal. The alarm current also illuminates the detector integral LED.

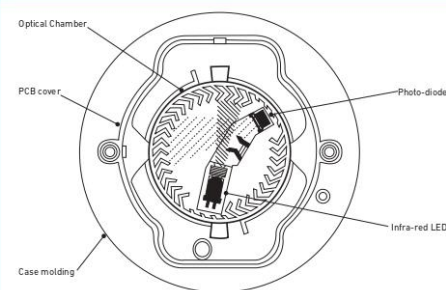
## Environmental characteristics

The Series 65A Photoelectric Smoke Detector is unaffected by wind or atmospheric pressure and operates over the temperature range 32°F to 140°F.

## Electrical description

The Series 65A Photoelectric Smoke Detector is designed to be connected to a two wire loop circuit carrying both data and a 9V to 33V dc supply. The detector is connected to the incoming and outgoing supply via terminals L1 and L2 in the mounting base. A remote LED indicator requiring not more than 4 mA at 5 V may be connected between the +L1IN and -R terminals. An earth connection terminal is also provided.

### Series 65A Photoelectric Smoke Detector top section



### Response characteristics of Series 65A Photoelectric Smoke Detector

| Type of fire                   | Optical Smoke Detector |
|--------------------------------|------------------------|
| Overheating/thermal combustion | Very Good              |
| Smouldering/glowing combustion | Moderate/Good          |
| Flaming combustion             | Very Good              |
| Flaming with high heat output  | Very Good              |
| Flaming - clean burning        | Poor                   |

### Compatible bases for the Series 65A Photoelectric Smoke Detector

| Part No.  | Description                          |
|-----------|--------------------------------------|
| 45681-200 | Series 65A mounting base             |
| 45681-220 | 4" Series 65A standard mounting base |
| 45681-232 | 6" Low profile base                  |
| 45681-251 | 6" E-Z fit base                      |
| 45681-255 | 4" Standard relay base               |
| 45681-256 | 4" Auxiliary relay base              |
| 45681-257 | 4" 12 V End-of-Line relay base       |
| 45681-258 | 4" 24 V End-of-Line relay base       |



## Sigma A-Si & Abort Switch

## Extinguishant Status Indicators



### Sigma A-Si Features

- ☐ UL864 and FM listed
- ☐ High brightness LEDs
- ☐ Detailed indication of the status of the control panel
- ☐ Supervised data connection
- ☐ Countdown timer shows time remaining until release
- ☐ Manual only and Automatic & Manual mode select keyswitch option
- ☐ Four wire connection (data and power)
- ☐ Protected dual action manual release switch option
- ☐ Option for zonal fire and trouble indication with buzzer
- ☐ Robust, high quality enclosure
- ☐ Easy access to terminals
- ☐ Remote Auto/Manual door interlock input (supervised)
- ☐ Remote Abort input (supervised)
- ☐ Internal trouble diagnosis indicators

### Disablement Switch Features

- ☐ Key removable in either position
- ☐ Both sides of solenoid circuit are mechanically disabled during activation
- ☐ Disablement illuminated at panel when active

### Sigma A-Si Product Overview

- ☐ The Sigma A-Si range of status indicators provide detailed status information for Sigma A-XT releasing control equipment.
- ☐ All models provide high brightness, LED indication of Manual Only, Automatic and Manual, Abort operated, Disabled, Imminent and Released conditions. Models are also available with zonal fire indicators and a common trouble indicator.
- ☐ For systems where local control of the Automatic/Manual mode and or a Manual extinguishant release control are required, units are available with these controls fitted.
- ☐ All models have supervised inputs for the remote connection of Automatic/ Manual mode and abort switches.
- ☐ All units contain a large, LED display which shows a countdown of the time remaining until release in seconds.

### Abort Switch Product Overview

- ☐ The Sigma A-XT Abort switch connects to the Abort terminals of the Sigma A-XT releasing panel. Any number of Sigma A-XT Abort switches may be connected to the circuit.
- ☐ The last switch must have the end of line device from the Abort circuit terminals of the Sigma A-XT releasing panel fitted across its connections to provide open and short circuit supervision.
- ☐ The unit is supplied mounted to a rugged steel enclosure but may also be flush mounted to a single gang electrical box.



Part No. K1832-10



Model No. K1823-10



Model No. K1821-19



Model No. K1821-11



Model No. K1821-15



Model No. K1821-13



Model No. K1821-17

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|                 |                       |
|-----------------|-----------------------|
| Manual Only     | <input type="radio"/> |
| Auto/Manual     | <input type="radio"/> |
| Abort Activated | <input type="radio"/> |
| Disabled        | <input type="radio"/> |
| Imminent        | <input type="radio"/> |
| Released        | <input type="radio"/> |
| Fire Zone 1     | <input type="radio"/> |
| Fire Zone 2     | <input type="radio"/> |
| Fire Zone 3     | <input type="radio"/> |
| Trouble         | <input type="radio"/> |

## Equipment

| Product Code | Description                                                                          | Size (mm)      |
|--------------|--------------------------------------------------------------------------------------|----------------|
| K1821-11     | 6 lamp status unit surface mount - red                                               | 186 x 132 x 50 |
| K1821-41     | 6 lamp status unit surface mount - grey                                              | 186 x 132 x 50 |
| K1821-12     | 6 lamp status unit flush mount - red                                                 | 186 x 132 x 55 |
| K1821-42     | 6 lamp status unit flush mount - grey                                                | 186 x 132 x 55 |
| K1821-13     | 6 lamp status unit with mode select keyswitch surface mount - red                    | 186 x 132 x 50 |
| K1821-43     | 6 lamp status unit with mode select keyswitch surface mount - grey                   | 186 x 132 x 50 |
| K1821-14     | 6 lamp status unit with mode select keyswitch flush mount - red                      | 186 x 132 x 55 |
| K1821-44     | 6 lamp status unit with mode select keyswitch flush mount - grey                     | 186 x 132 x 55 |
| K1821-15*    | 6 lamp status unit with manual release surface mount - red                           | 186 x 132 x 50 |
| K1821-45*    | 6 lamp status unit with manual release surface mount - grey                          | 186 x 132 x 50 |
| K1821-16*    | 6 lamp status unit with manual release flush mount - red                             | 186 x 132 x 55 |
| K1821-46*    | 6 lamp status unit with manual release flush mount - grey                            | 186 x 132 x 55 |
| K1821-17*    | 6 lamp status unit with mode select keyswitch & manual release surface mount - red   | 186 x 132 x 50 |
| K1821-47*    | 6 lamp status unit with mode select keyswitch & manual release surface mount - grey  | 186 x 132 x 50 |
| K1821-18*    | 6 lamp status unit with mode select keyswitch & manual release flush mount - red     | 186 x 132 x 55 |
| K1821-48*    | 6 lamp status unit with mode select keyswitch & manual release flush mount - grey    | 186 x 132 x 55 |
| K1821-19*    | 10 lamp status unit with mode select keyswitch & manual release surface mount - red  | 186 x 132 x 50 |
| K1821-49*    | 10 lamp status unit with mode select keyswitch & manual release surface mount - grey | 186 x 132 x 50 |
| K1821-20*    | 10 lamp status unit with mode select keyswitch & manual release flush mount - red    | 186 x 132 x 55 |
| K1821-50*    | 10 lamp status unit with mode select keyswitch & manual release flush mount - grey   | 186 x 132 x 55 |
| K1823-10     | Elite Extinguishing Abort switch surface mount - red                                 | 98 x 98 x 59   |
| K1823-40     | Elite Extinguishing Abort switch surface mount - grey                                | 98 x 98 x 59   |
| K1832-10     | Elite Disablement switch surface mount - red                                         | 98 x 98 x 59   |
| K1832-40     | Elite Disablement switch surface mount - grey                                        | 98 x 98 x 59   |

\* Not UL/FM Listed

## Sigma A-Si Technical

|                                              |                                               |
|----------------------------------------------|-----------------------------------------------|
| <b>Construction</b>                          | - 1.2mm mild sheet steel                      |
| <b>IP Rating</b>                             | - IP30                                        |
| <b>Colour - lid &amp; box</b>                | - Red (optional grey)                         |
| <b>Power supply</b>                          | - 21 to 30 V DC                               |
| <b>Maximum current draw</b>                  | - 0.07A                                       |
| <b>Max. number of status units</b>           | - 7                                           |
| <b>Quiescent current</b>                     | - 0.033A                                      |
| <b>Cable capacity</b>                        | - 2.5mm <sup>2</sup> per terminal             |
| <b>Monitored inputs end of line resistor</b> | - 6K8 0.5W Resistor                           |
| <b>Monitored inputs normal threshold</b>     | - 8K ohm to 1K ohm                            |
| <b>Monitored inputs trigger threshold</b>    | - 700 ohms to 100 ohms                        |
| <b>Monitored inputs</b>                      | - 99 ohms to 0 ohms                           |
| <b>Short circuit threshold</b>               |                                               |
| <b>Data connection</b>                       | - Two wire RS485 connection (max 1200 metres) |

## Abort Switch Technical

|                             |                          |
|-----------------------------|--------------------------|
| <b>Construction</b>         | - 1.2mm mild sheet steel |
| <b>IP Rating</b>            | - IP30                   |
| <b>Colour</b>               | - Red (optional grey)    |
| <b>Switch rating</b>        | - 1A at 30V DC           |
| <b>Trigger resist</b>       | - 470R 1W                |
| <b>End of line resistor</b> | - 6K8 1/2 W              |



## Conventional Manual Call Point

### FUNCTION

The Conventional Manual Call Point has been designed to operate on conventional fire detection systems.

The Manual Call Point is available in two versions, indoor and outdoor in either red or yellow.

### FEATURES

The Manual Call Point has an easily resettable element rather than a break glass. The call point is supplied with a backbox for surface mounting.

It also features a unique 'Plug and Play' installation concept designed specifically to reduce installation time. The call point utilises a terminal block, where all installation cabling is terminated.

The red Manual Call Point is approved to EN54-11 standard.

### MECHANICAL CONSTRUCTION

The component parts of the call point are moulded in polycarbonate or ABS, depending on their function.

### DIMENSIONS AND WEIGHT

|         |                      |      |
|---------|----------------------|------|
| Indoor  | 93mm x 89mm x 59.5mm | 180g |
| Outdoor | 93mm x 97.5mm x 71mm | 350g |

### OPERATING PRINCIPLES

The Manual Call Point consists of a 470Ω resistor in series with a normally open switch contact.



Part numbers: 55100-001 (Indoor - Red)  
55100-002 (Indoor - Yellow)  
55100-003 (Outdoor - Red)  
55100-004 (Outdoor - Yellow)

The Manual Call Point helps reduce installation time as all the initial installation cabling is wired to a terminal block which connects neatly to the call point.

Once activated, the manual call point can be reset by inserting the test key into the bottom of the unit until the key clicks into position. Remove the test key and push the front cover up until it clicks home.

### EMC DIRECTIVE 2004/108/EC

*The Manual Call Point complies with the essential requirements of the EMC Directive 2004/108/EC, provided that it is used as described in this PIN sheet.*



Overseas offices:  
America China Germany Ireland



36 Brookside Road, Havant,  
Hampshire, PO9 1JR, UK.  
A HALMA COMPANY

Tel: +44 (0)23 9249 2412  
Fax: +44 (0)23 9249 2754

Email: [sales@apollo-fire.co.uk](mailto:sales@apollo-fire.co.uk)  
Web: [www.apollo-fire.co.uk](http://www.apollo-fire.co.uk)

A copy of the Declaration of Conformity is available from Apollo on request.

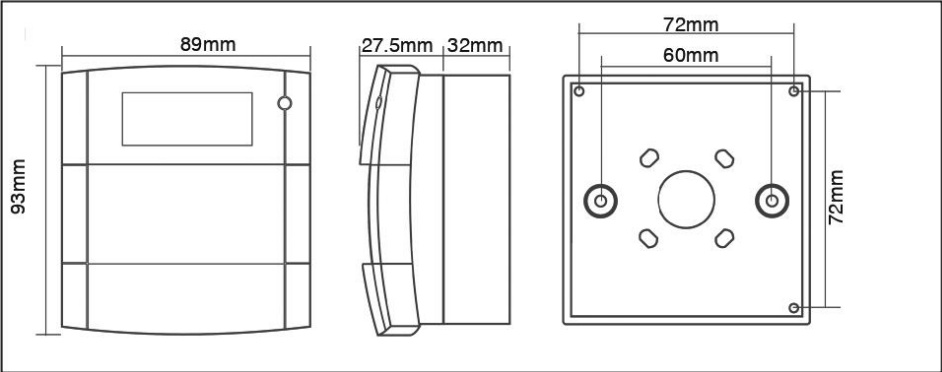
Conformity of the Manual Call Point with the EMC Directive does not confer compliance with the directive on any apparatus or systems connected to it.

TECHNICAL DATA

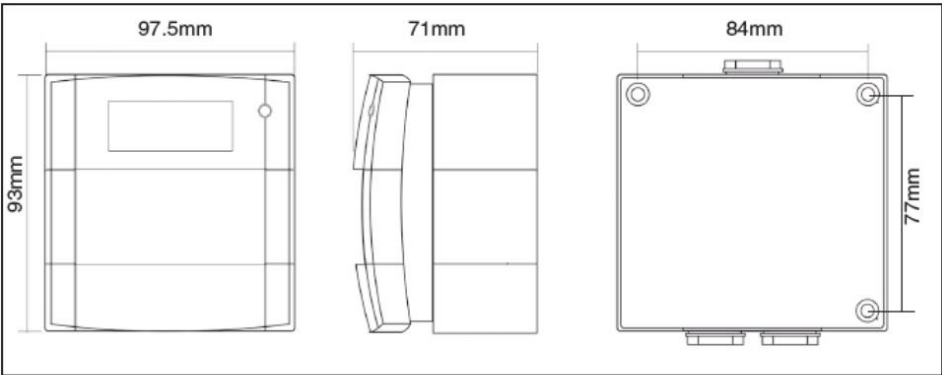
|                                         |                   |
|-----------------------------------------|-------------------|
| Maximum Supply voltage                  | 30VDC             |
| Switch Rating                           | 2A                |
| Operating temperature                   |                   |
| Indoor                                  | -10°C to +55°C    |
| Outdoor                                 | -25°C to +70°C    |
| Humidity (no condensation)              | 0-93 ±3%(Ind/Out) |
| IP rating                               |                   |
| Indoor                                  | 24D               |
| Outdoor                                 | 67                |
| Complies with EMC Directive 2004/108/EC |                   |
| Red version complies with EN54-11:2001  |                   |

DIMENSIONAL DRAWING

INDOOR



OUTDOOR



# AH-03127



AH-03127-S



AH-03127-BS

Electronic Sounder and Beacon

## Electronic Sounder and Beacon

### General

This electronic sounder is designed for use with fire alarm systems, security systems and industrial signaling systems. Combined sounder and beacon provides an audio-visual warning which is suitable for places where high sound output and visual indication is required.

### Characteristics

- 32 signal tones selectable by Dip switch.
- High sound output with low current consumption.
- High efficiency lens for maximum light output.
- Volume Control as standard.
- Two sets of IN and OUT terminals, easy for installation.

Approvals: EN54



### Specifications

| Model                                    | AH-03127-S             | AH-03127-BS             |
|------------------------------------------|------------------------|-------------------------|
| Voltage                                  | 24V DC                 |                         |
| Current Consumption<br>24V DC (tone 3)   | 14.5mA                 |                         |
| Sound Output 24V DC<br>dB (A) at 1 meter | Max, 114               |                         |
| Volume Control                           | 0 to -20dB adjustment  |                         |
| Ingress Protection                       | IP44                   |                         |
| Ambient Temperature                      | -25°C ~ +80°C          |                         |
| Material                                 | ABS plastic            |                         |
| Dimensions                               | 92.5mm(Dia.) x 94mm(H) | 92.5mm(Dia.) x 110mm(H) |
| Weight                                   | 254g                   | 278g                    |

### Order information

|             |                               |
|-------------|-------------------------------|
| AH-03127-S  | Electronic Sounder            |
| AH-03127-BS | Electronic Sounder and Beacon |



# Sigma A-CP

# Conventional Control Panel

## Features

- ☐ UL864 approved
- ☐ Two, four or eight initiating circuits
- ☐ Initiating circuits individually configurable as Fire, Water flow or Supervisory
- ☐ Two 2A notification appliance circuits
- ☐ Selectable NAC sync protocols
- ☐ Two 2.0A notification appliance circuits
- ☐ 6.5A power supply
- ☐ Alarm verification selectable by zone
- ☐ Resettable Aux power output rated at 0.3A
- ☐ Aux power configurable to power off on Fire condition
- ☐ Fire, Trouble and Supervisory relays
- ☐ Single person walk test function
- ☐ Optional DACT
- ☐ Many advanced configuration options
- ☐ 72 hour standby with 7Ah batteries
- ☐ Compact enclosure
- ☐ Fire Drill capability

## Product Overview

- ☐ The Sigma A-CP range of conventional fire control panels with optional built in communicator are available with 2, 4 or 8 initiating circuits which may be extensively configured via a simple front panel operated programming method.
- ☐ The low standby power requirements and cost effective small batteries allow the panel to be mounted in a small discrete enclosure which is available in standard red or optionally in an attractive grey colour.
- ☐ A simple programming method using just 3 front panel buttons allows an extensive list of configuration options to be set and reviewed.
- ☐ Single board construction which allows easy removal of all electronic parts by removing just 2 screws and ample provision of cable entry knockouts simplify installation.
- ☐ 4 Amp notification appliance power and built in selectable sync protocols provide ample power and control for a wide range of standard notification appliances.
- ☐ The built in RS485 communications bus provides the facility to connect 4 wire annunciators or ancillary relay boards to provide further indication and control options throughout a premises.
- ☐ The optional DACT allows dual line reporting to central stations and provides a 500 event history buffer.

NOT  
SUITABLE  
FOR EU  
MARKETS



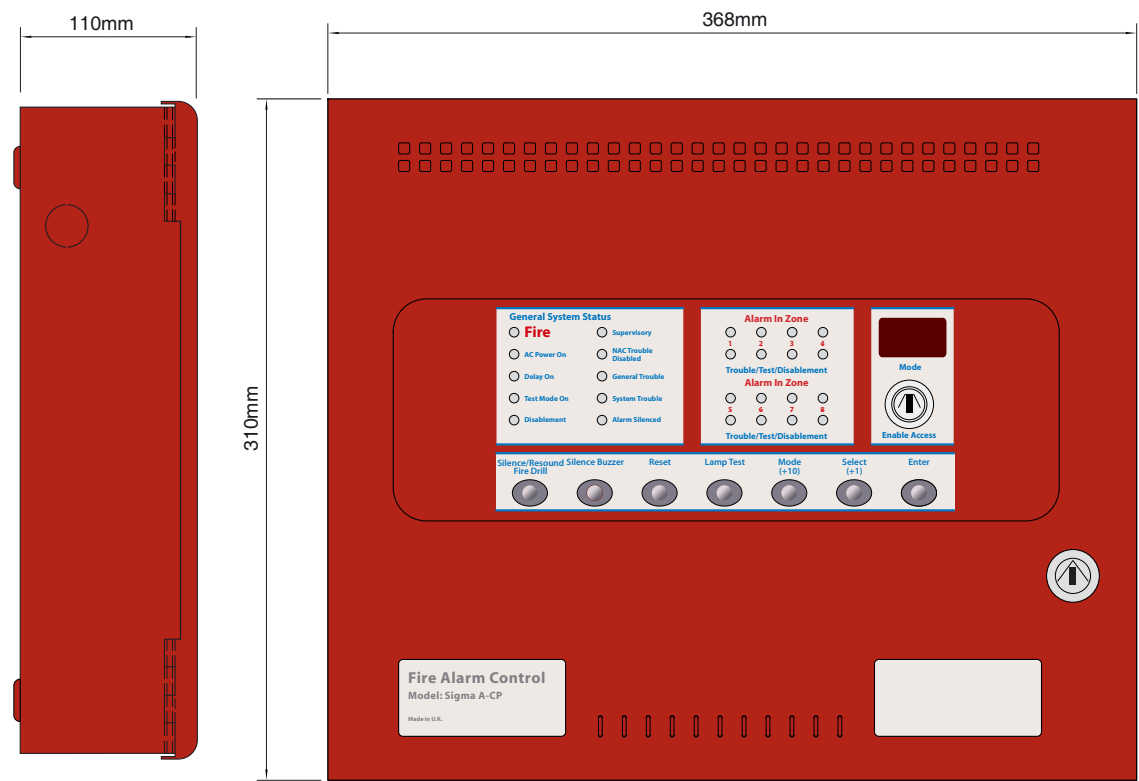
Model No. K1848-11

# Technical

|                             |                                                     |
|-----------------------------|-----------------------------------------------------|
| Construction                | - 1.2mm mild sheet steel                            |
| IP Rating                   | - IP30                                              |
| Finish                      | - Epoxy powder coated                               |
| Colour - lid & box          | - Red RAL 3002 (optional grey BS 00 A 05 semi-matt) |
| Supply Voltage              | - 115V AC or 230V AC                                |
| Mains Supply fuse           | - 3 Amp 250V 20mm SB                                |
| Power supply DC rating      | - 24V 6.5 Amps                                      |
| Maximum battery size        | - 12Ah 12V (2 per panel)                            |
| Trouble contact rating      | - 30V DC 1 Amp                                      |
| Supervisory contact rating  | - 30V DC 1 Amp                                      |
| Fire contact rating         | - 30V DC 1 Amp                                      |
| NAC rating                  | - 2A per circuit 4A Total                           |
| Detection zone current      | - 1.6 milliamps                                     |
| Detection zone EOL resistor | - 6k8 5%                                            |
| NAC EOL resistor            | - 10k 5%                                            |
| Cable capacity              | - 12 AWG                                            |
| Operating temperature       | - -5°C to 50°C                                      |
| Operating humidity          | - <95% (non condensing)                             |

# Panels

| Product Code | Zones | Dialer | Colour | Size (mm)       |
|--------------|-------|--------|--------|-----------------|
| K1842-11     | 2     | No     | Red    | 368 x 310 x 110 |
| K1842-41     | 2     | No     | Grey   | 368 x 310 x 110 |
| K1852-11     | 2     | Yes    | Red    | 368 x 310 x 110 |
| K1852-41     | 2     | Yes    | Grey   | 368 x 310 x 110 |
| K1844-11     | 4     | No     | Red    | 368 x 310 x 110 |
| K1844-41     | 4     | No     | Grey   | 368 x 310 x 110 |
| K1854-11     | 4     | Yes    | Red    | 368 x 310 x 110 |
| K1854-41     | 4     | Yes    | Grey   | 368 x 310 x 110 |
| K1848-11     | 8     | No     | Red    | 368 x 310 x 110 |
| K1848-41     | 8     | No     | Grey   | 368 x 310 x 110 |
| K1858-11     | 8     | Yes    | Red    | 368 x 310 x 110 |
| K1858-41     | 8     | Yes    | Grey   | 368 x 310 x 110 |



UL/ FM Approved Panels