

# 99102

## A50E-2 A-Series addressable mini relay unit

### Overview

The A50E-2 is an addressable relay providing single pole, volt free, change-over contacts. The unit is intended for installation within the equipment to be switched, thereby offering savings in installation costs when compared to long, auxiliary circuit, wiring runs out from the control panel. Approved to EN54-18, the relay may be located anywhere on the two core ZP loop and is designed for power up or shut down of building services, for example air conditioning plant, in fire conditions.

The unit is ideal for the control of associated system equipment such as door release circuits or the emergency shutdown of high risk services, for instance gas or oil supply valves in boiler rooms.

### Installation and mounting options

The relay can be programmed to be activated by any single device, groups of devices or all system devices. All types of system input signals can be arranged to operate the A50E-2 which can include control panel indicators, zonal outputs, call points or detectors.

Housed in a low profile, double width molding the interface is designed to clip directly onto a standard DIN rail fixing or be installed in a SMB-DIN1 box (one unit capacity), or a SMB-DIN2 box (two unit capacity).

Installed as part of an analogue addressable system, up to 127 line devices (detectors, call points or interface units) can be connected to each of the control panel loops. All loop devices incorporate switch settings enabling them to be assigned a unique address which is polled by the panel every two seconds.

### LED indication

A red LED indicator positioned on the front molding flashes when the interface has operated, providing clear identification of the signal source.



### Details

- Addressable interface unit
- Low profile
- DIN rail mounted
- Loop powered - installed adjacent to equipment to be switched
- Operated from any combination of input addresses
- Volt free, change over contacts
- EN54:18 approved and CPR certified

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## A50E-2 A-Series addressable mini relay unit

### Technical specifications

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#### General

|                   |                                  |
|-------------------|----------------------------------|
| Status indication | LED (red), flashing on operation |
| Compatibility     | ZP7 Series Systems               |
| Addressing method | DIP Switches                     |
| Address range     | 1 to 127                         |

#### Electrical

|                     |   |
|---------------------|---|
| Power supply type   | Loop powered                                      |
| Operating voltage   | Pulsed Loop 16 to 20.5 V                          |
| Current consumption | <600 $\mu$ A (Quiescent)<br><850 $\mu$ A (Active) |

#### Output

|                        |  |
|------------------------|--|
| Output quantity        | 1  |
| Output type and rating | Single pole, change over, 1 A @ 30 VDC / 0.3A @ 40 VAC |

#### Physical

|                     |                                  |
|---------------------|----------------------------------|
| Physical dimensions | 85 x 78 x 28 mm (W x H x D)      |
| Net weight          | 40 g                             |
| Colour              | White                            |
| Mounting type       | DIN-rail, In cabinet, Wall mount |
| Material            | Moulded ABS                      |
| Cable specification | 2 core loop (screened)           |

#### Environmental

|                       |                         |
|-----------------------|-------------------------|
| Vandal proof          | No                      |
| Operating temperature | -10 to +55°C            |
| Storage temperature   | -10 to +55°C            |
| Relative humidity     | 20 to 95% noncondensing |
| Environment           | Indoor                  |
| IP rating             | IP20 (EN60529)          |

#### Regulatory

|               |                         |
|---------------|-------------------------|
| Compliance    | CE, REACH, RoHS 3, WEEE |
| Certification | CPR                     |
| Standards     | EN54-18                 |
| Environmental | EEC89/336               |

#### Compatible products

| Category       | Reference | Description |
|----------------|-----------|-------------|
| Interface unit | SMB-DIN1  |             |
| Interface unit | SMB-DIN2  |             |