

A51E-1

Addressable mains relay module

Rated to switch local mains

The A51E is an addressable relay providing double pole, volt free, change over contacts, rated to switch local mains supplies. 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.

Complying with EN54 Part 18, the relay can be located anywhere on the two core ZP loop and is designed for power up or shut down of the mains electrical supply to ancillary equipment

The unit is ideal for the control of associated system equipment such as mains fed magnetic door release circuits, extract fans and dampers.

Low profile moulding

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 A51E, which can include control panel indicators, zonal outputs, callpoints or sensors.

Terminals 1-2 and 5-6 provide normally closed relay connections (opening on alarm), terminals 2-3 and 4-5 provide normally open relay connections (closing on alarm).

Housed in a low profile moulding, the relay is designed to clip directly onto a standard DIN 35 mounting rail or equipment panel chassis.

Alternatively the relay can be installed in a SMB-DIN100 box (one unit capacity) or SMB-DIN200 box (two unit capacity) – care should be taken to prohibit casual entry into the enclosure.

LED indication

A red LED indicator positioned on the front moulding flashes when the interface contacts have operated. For system test and commissioning the relay contacts can be operated manually, enabling control circuits to be tested.

Installed as part of an analogue addressable system, up to 127 line devices (sensors, callpoints 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.



Standard Features

- Addressable mains rated unit
- Complies with EN54 Part 18
- Miniature size
- DIN 35 mounting rail fixing
- Loop wired - adjacent or internal to equipment to be switched
- Operated from any combination of input addresses
- Double pole, volt free change over contacts



A51E-1

Addressable mains relay module

Specifications

Model No	A51E
Specification	EN54 Part 18
Description	Addressable mains relay module
Compatability	All ZP analogue addressable panels
Mounting	Equipment cabinet DIN rail, or SMB-DIN100, SMB-DIN200 surface boxes
Wiring	Two core loop
Operating voltage	Pulsed ZP loop (19.5 - 20.5V) with max 4 Volt line loss
Current	Quiescent 600uA Alarm 700uA
Relay contacts	Double pole change over
Contact ratings	DC - max voltage 60Vdc, current 1A AC - max voltage 250Vac current 5 A
Indication	LED (red) flashing on operation
Application	Indoor installation
EN60529 rating	IP20
Temperature range	-10°C to +55°C
Humidity range (at 40C)	10% to 95% RH (non condensing)
EMC	CE marked (EEC89/336)
Material	Moulded ABS
Dimensions	85mm (W) x 80mm (H) x 42mm (D)
Colour	White
Weight	88g
Publication No	PS2013

Ordering Information

Part No.	Description
A51E-1	Addressable mains relay module

