

ISOLATING BASE



S-A4008

DESCRIPTION

The Isolating Base senses and isolates short circuit faults on loops and spurs.

The base is loop-powered, polarity sensitive and accepts the XPERT card to set the address of the associated device.

In short-circuit conditions the integral yellow LED is illuminated. The detector associated with the base remains active under short-circuit conditions. Power and signals to the affected section are restored automatically when the fault is cleared.

FEATURES

- Up to 20 detectors or their equivalent load may be installed between isolating bases.
- Detects wiring short-circuits.
- Minimises disruption from short-circuits.
- High brightness LED.

TECHNICAL DATA

Supply Voltage	17 - 28 V DC
Digital communication	Shield Protocol
Modulation voltage	5 - 9 V peak to peak
Surge current	0 mA
Supervisory current	35 µA
Maximum line current	1 A
Operating temperature	-17 °C to 38 °C
Humidity	0% to 95% RH (no condensing or icing)
Standards and approvals	UL, ULC, FM
Dimension: (diameter x height)	101.6 mm x 19.05 mm
Weight	100 gm
Materials	Housing: White polycarbonate Terminals: Nickel plated stainless steel

PROTOCOL COMPATIBILITY

The Isolating Base is intended for use with equipment using the Shield communication protocol.

OPERATION

Under normal operating conditions a low impedance is present between the -IN and -OUT terminals of the base so that power and signals pass to the next base in line.

If a short-circuit or abnormally low impedance occurs the fall in voltage is sensed and the base isolates the negative supply in the direction of the fault. The isolated section is tested using a current pulse every five seconds. When the shortcircuit is removed, the power will automatically be restored.

Up to twenty detectors or equivalent surge current may be installed between isolating bases.

SIGNALING

