



Odyssey Mini Switch Monitor 200-201

The Odyssey multisensor detector contains an optical smoke sensor and a thermistor temperature sensor whose outputs are combined to give the final analogue value.

The multisensor construction is similar to that of the optical detector but uses a different lid and optical mouldings to accommodate the thermistor temperature sensor. The sectional view (Fig.15) shows the arrangement of the optical chamber and thermistor.

SUMMARY

The Isolating Base (200-113) 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 associated device address. 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. The Isolating Base is intended for use with equipment using the Squarewave communication protocol. Under normal 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 short-circuit is removed, the power will automatically be restored. If it is a requirement that no device is lost in the event of a single short-circuit fault, every detector should be fitted to an isolating base.

Key Features:

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

Standards & Approvals:

- BS 61000-6-3
- Emission to BS EN 50081-1
- Immunity to BS EN 50130-4



TECHNICAL SPECIFICATION

Min Supply Voltage	17 Vdc
Max Supply Voltage	28 Vdc
Isolation Indicator	Yellow LED, lit continuously in isolation circuit
Current Consumption	23 uA to 43 uA
Max Line Current	3.0 A
Operating Temp.	-20 C to +60 C
Storage Temp.	-30 C to +80 C
Humidity (non condensing)	95% RH
Designs Environment	23D
Dimensions	100 x 24 mm
Weight	100 g

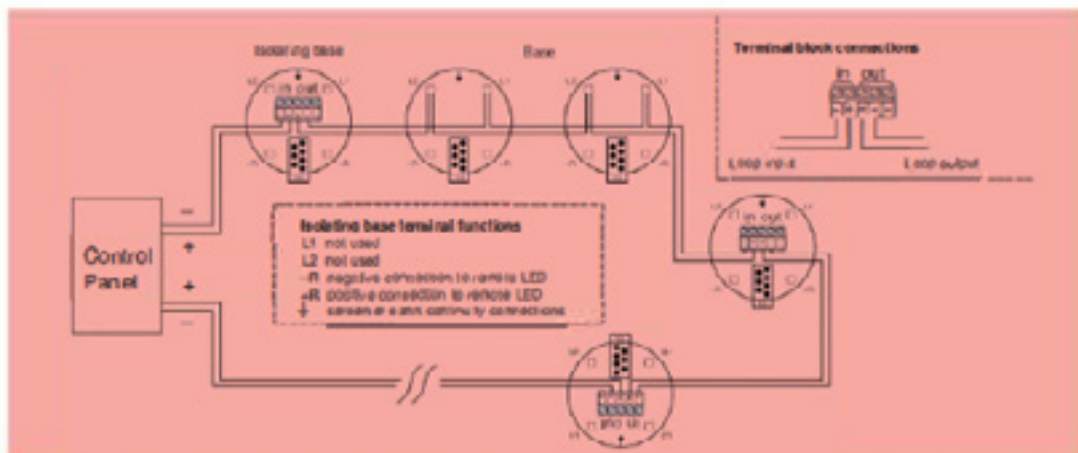


Fig. 19 Schematic wiring diagram of bolting base