

ISOLATOR MODULE



S-A4051

DESCRIPTION

The Isolator is placed at intervals on the loop and ensures that in the case of a short circuit only the section between the isolators will be affected. When the short circuit is removed the isolators automatically restore power and data to the isolated section.

INSTALLATION

The Short-circuit Isolator must be installed in accordance with applicable NFPA standards, local codes and jurisdictional authorities. Failure to follow these instructions may result in failure of the unit or detectors to report an alarm condition. Shield Fire, Safety and Security is not responsible for equipment which is improperly installed, maintained or tested.

Before installing the Short-circuit Isolator, check continuity, polarity and insulation resistance of all wiring. Check that sitting is in accordance with the fire system drawings and conforms to all applicable local codes such as NFPA 72.

Use 3" octagonal box for direct connection to the base. 4" octagonal and 4" square boxes may be used with proper UL listed mounting brackets. Secure the base to the electrical box with appropriate screws.

NOTE:

Must be connected to power limited circuit with a maximum loop current of continuous 1 A.

FEATURES

- Detects wiring short-circuit using patented technology.
- Minimizes disruption from short-circuits.
- Automatic de-isolation on short-circuit removal.
- Up to 20 devices may be installed between isolator.

TECHNICAL DATA

Operating Voltage	17 - 28 V DC
Modulation Voltage	5-9 V (peak to peak)
Supervisory Standby Current	2.5 mA
Surge current	0 mA
Maximum current drawn	8.5 mA
Humidity	0-93 %
Dimension	102 mm x 32 mm
Relay output	Non supervised, dry contact 24 V DC, 2 A; 30 V AC, 0.5 A
Temp. Range	0°C to 38°C



Fig. 1 - Class wiring diagram

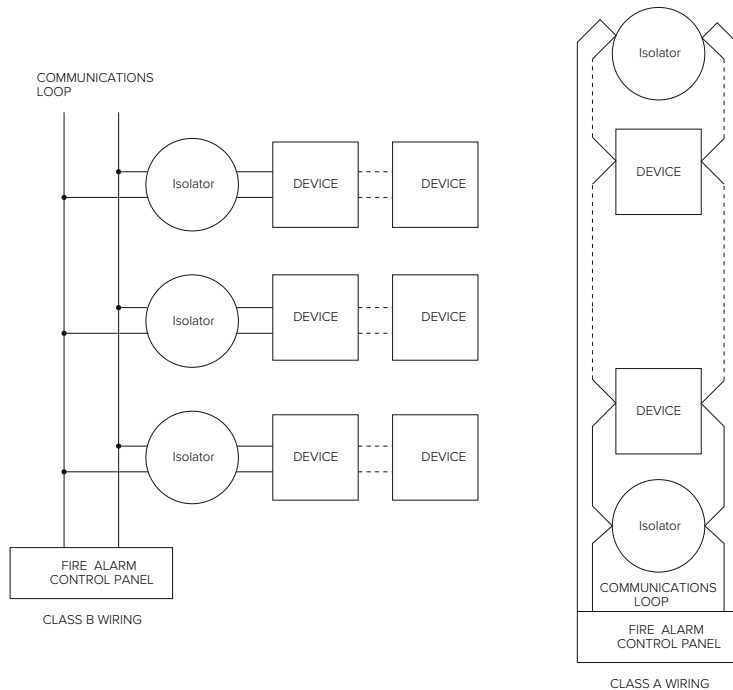
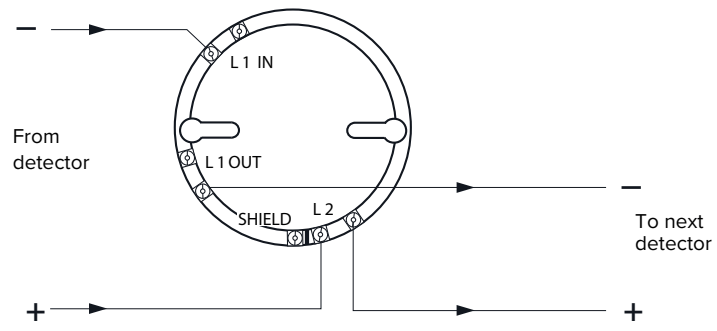


Fig. 2 - Isolator Base wiring diagram



Note: The isolator base is polarity sensitive. The cable must not be wrapped around the L2 terminal, it **must** be broken and connected to the L2 terminal to ensure safe operation.

