Loop Isolator

Effective: January 2011

SmartOne®

FEATURES

- **Electrical Box or Detector Base Mounting Configurations**
- **Full Analog Display**
- **UL Listed**
- **FM Approved**
- **CSFM Approved**
- **ULC Approved**

DESCRIPTION

Isolator modules are automatic switches that open a segment of the signaling line circuit when a short-circuit fault is detected in that segment. The remainder of the signaling line circuit continues to function normally and is unaffected by the short-circuit fault. The isolator modules will close and resume normal operation when the short-circuit fault is removed.

Isolator module, P/N 74-200012-002, is supplied with a plastic cover plate for mounting to a single-gang electrical box. Isolator module, P/N 74-200012-004, is designed to mount in the electrical box for the Model 6SB detector base.

Both types of loop isolators are fitted at convenient positions to protect each individual device. The number of devices between each isolator must not exceed 30, and the maximum number of isolators that can be used per SLC is 20.

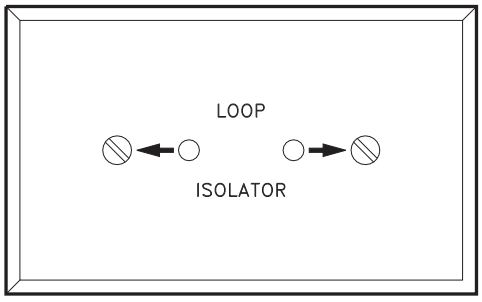
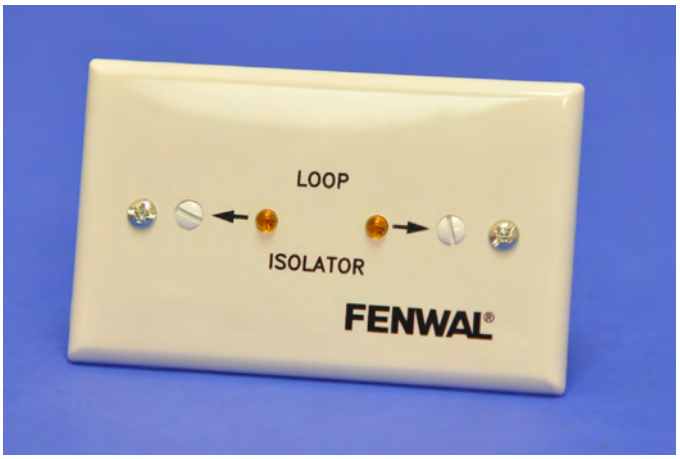


Figure 1. Loop Isolator, Stand Alone
(P/N 74-200012-002)



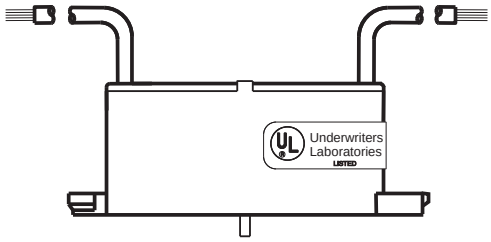


Figure 2. Isolator Loop, 6-inch Detector Base Mount
(P/N 74-200012-004)

LOOP ISOLATOR RESISTANCE

Each loop isolator has a typical in-line resistance of 0.12 ohms. Therefore, on systems using loop isolators, the maximum SLC line resistance of 26 ohms must be reduced by 0.12 times the number of loop isolators before using it to calculate the maximum wire length.

WIRING STYLES

The loop isolator can be used with the following wiring styles:

- Class B, Style 4
- Class A, Style 6
- Class A, Style 7

Depending on the type of Loop Isolator, mount the unit to the gang box using 2 screws or twist the loop isolator onto the detector base.