

# ISO-101

## Fault Isolator Module



### General

The Notifier ISO-101 Fault Isolator Module is used with Notifier Onyx and CLIP series Fire Alarm Control Panels (FACPs) which enable part of the SLC loop to continue operating when a short circuit occurs on it. The module will automatically restore the entire SLC loop to the normal condition when the short circuit is removed.

### Features

- Powered by SLC loop directly, no external power required.
- This mini-isolator module can be installed inside Notifier's detector or module's junction box.
- High noise (EMF/RFI) immunity.
- Opens SLC loop automatically on detection of short, preventing the short from causing failure of the entire loop.
- Automatically resets on correction of short.
- Supports Style 4, 6, or 7 wiring.

### Applications

The ISO-101 Fault Isolator Modules can use for multiple devices and single device two different isolation applications. For multiple devices isolation usage, the ISO-101 should be spaced between groups of sensors in a loop to protect the rest of the loop. Use to isolate short circuit problems within a section of a loop so that other sections can continue to operate normally (see Figure 1: Multiple Devices Wiring Diagram). Maximum number of devices in-between isolators subject to factory's recommendation. For single device isolation usage, the ISO-101 should be installed per each device in a loop to protect the rest of the loop. Use to isolate short circuit problems for individual device within a loop so that the rest of the loop can continue to operate normally (see Figure 2: Single Device Wiring Diagram).



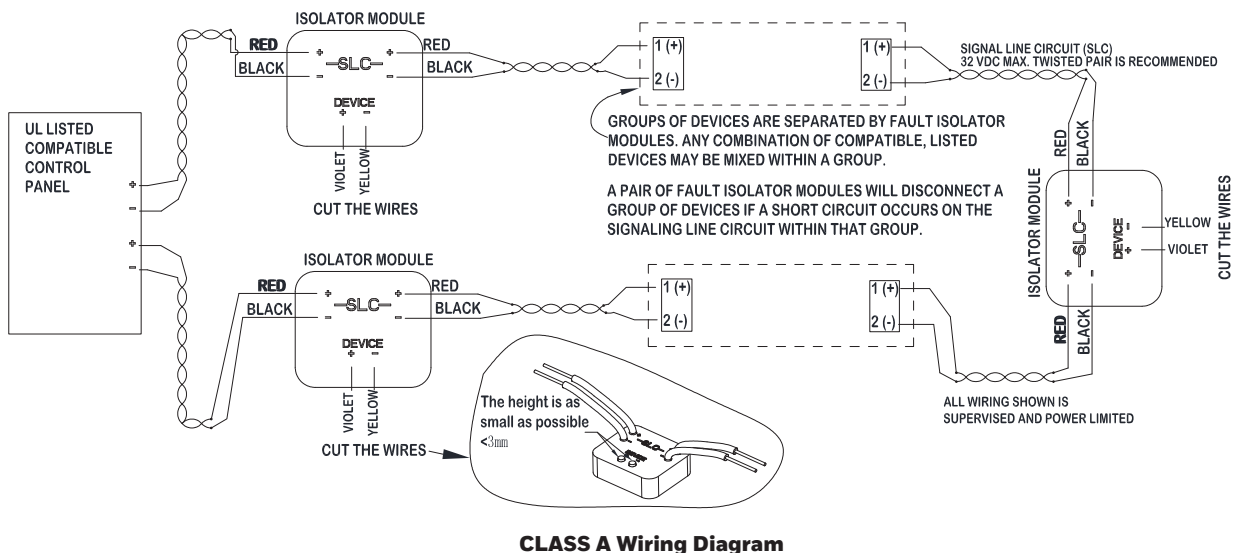
ISO-101

### Wiring

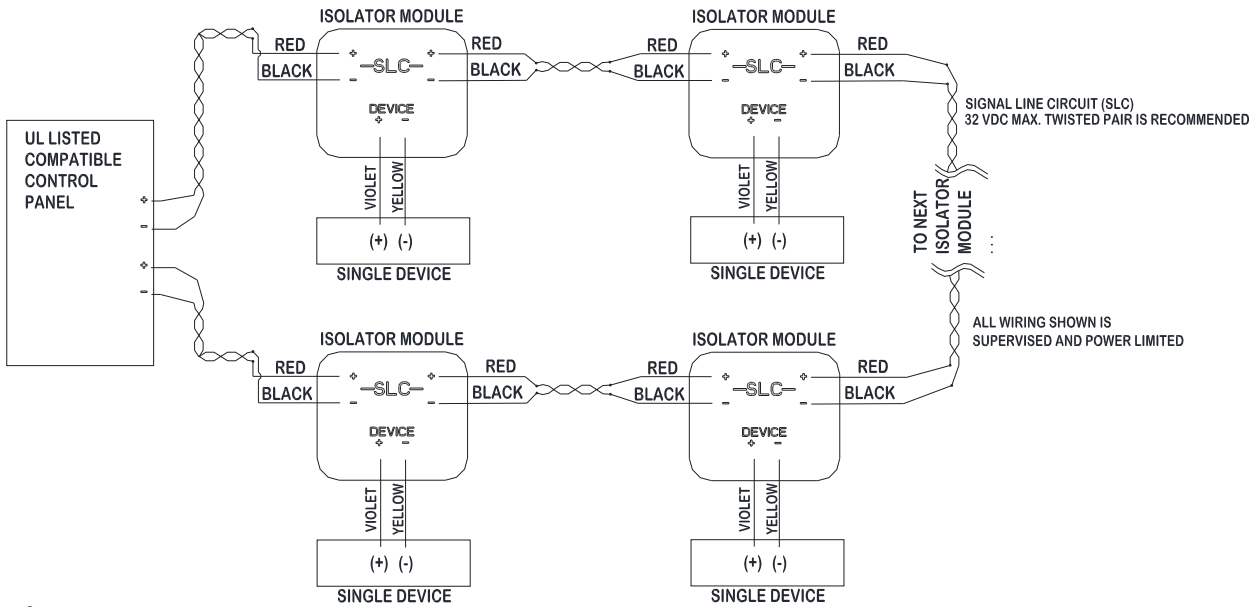
**NOTE:** All wiring must conform to applicable local codes, ordinances and regulations.

1. Install module wiring in accordance with the job drawings and the wiring diagram in Figure 1 or Figure 2.
2. Secure module to installation box (supplied by installer).
3. Terminal wire gauge: 22AWG-16 AWG.
4. Wiring caps in the accessory bag are used for field connection with red and black wires. Tighten wiring caps clockwise when the two wires are ready as below (See Figure 3).

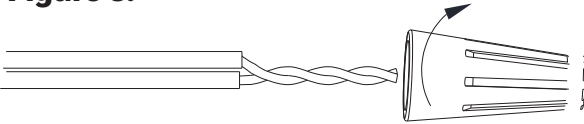
**Figure 1. ISO-101 Fault Isolator Module - Multiple Devices Wiring Diagram**



**Figure 2. ISO-101 Fault Isolator Module - Single Device Wiring Diagram**



**Figure 3.**



**Operation**

Automatically opens circuit when the line voltage drops below four volts. Fault Isolator Modules should be spaced between groups of addressable devices (maximum number of devices subject to factory's recommendation) in a loop to protect the rest of the loop for Multiple Devices Wiring application. If a short occurs between any two isolators, then both isolators immediately switch to an open circuit state and isolate the groups of sensors between them. The remaining units on the loop continue to fully operate.

In Style 4 loops, the ISO-101 is generally used at each T-tap branch, to limit the effect of short circuits on a branch to the devices on that branch. The LED indicator is on continuously during a short circuit condition.

The ISO-101 Fault Isolator Module automatically restores the shorted portion of the communications loop to normal condition when the short circuit condition is removed.

For Single Device Wiring application, operation will be similar to individual device.

**Compatibility Requirements**

To insure proper operation, these modules shall be connected to compatible Notifier system control panels only.

**Installation**

- Mount directly in Notifier device's installation backbox.
- Terminals are shown in "red" and "black" color.

• Installation instructions are provided with each module.

**Specifications**

- Normal Operating Voltage:** 15 - 32 VDC
- Stand-by Current:** <150µA (not isolating)
- Maximum Current Draw:** 17mA (device in isolation)
- Temperature Range:** 14°F to 131°F (-10°C to 55 °C)
- Maximum Load Current:** 1A
- Humidity:** 5 to 95% Non-condensing
- Dimensions:** 34mm(H) × 29mm (W) × 10mm (D)

**Agency Listing and Approval**

- UL file number: S3705

**Architectural/ Engineering Specifications**

Fault Isolator Module shall be provided to automatically isolate wire-to-wire short circuits on an SLC loop. The Fault Isolator Module shall limit the number of modules or detectors that may be rendered inoperative by a short circuit fault on the SLC Loop. If a wire-to-wire short occurs, the Fault Isolator Module shall automatically open-circuit (disconnect) the SLC loop. When the short circuit condition is corrected, the Fault Isolator Module shall automatically reconnect the isolated section of the SLC loop. The Fault Isolator Module shall not require any address-setting, and its operations shall be totally automatic. It shall not be necessary to replace or reset an Fault Isolator Module after its normal operation. The Fault Isolator Module shall mount in installation box, in a surface-mounted backbox, or in the Fire Alarm Control Panel.

**Product Line Information**

ISO-101: Mini Fault Isolator Module

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