

E-ISO Analog SLC Fault Isolator Module Installation Sheet

Operation

The module is an analog addressable device used to protect a Class A SLC from total collapse due to wire-to-wire short circuits. The module monitors line voltages and opens the SLC when a short is detected. A short is isolated between the two modules located electrically closest to the short.

The device address is set using the two rotary switches located on the front of the module. One device address is required.

LED operation

The module provides a bicolor LED that shows its status.

Normal: Green LED flashes

Active: Red LED flashes

Installation

WARNINGS

- This module will not operate without electrical power. As fires frequently cause power interruption, you should discuss further safeguards with your local fire protection specialist.
- This module does not support conventional smoke detectors.

Note: The module is shipped from the factory as an assembled unit; it contains no user-serviceable parts and should not be disassembled.

To install the module:

1. Verify that all field wiring is free of opens, shorts, and ground faults.
2. Make all wiring connections as shown in "Wiring."
3. Set the module address as follows:

Use a screwdriver to adjust the two rotary switches on the front of the module. Set the TENS rotary switch (0 through 12) for the 10s and 100s digit and the ONES rotary switch for the 0 through 9 digit. For example: device address 21, set TENS rotary switch to 2 and set the ONES rotary switch to 1.

Refer to "Specifications" for available address numbers.

4. Mount the module on the electrical box using screws provided with the electrical box.

5. Mount the wall plate on the module using #4-24 x 1/2 in. (13 mm) self-tapping screws.

Figure 1: Module address

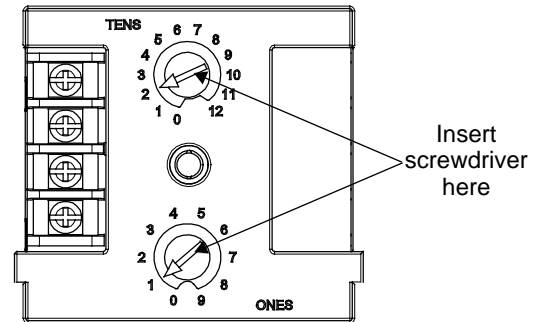
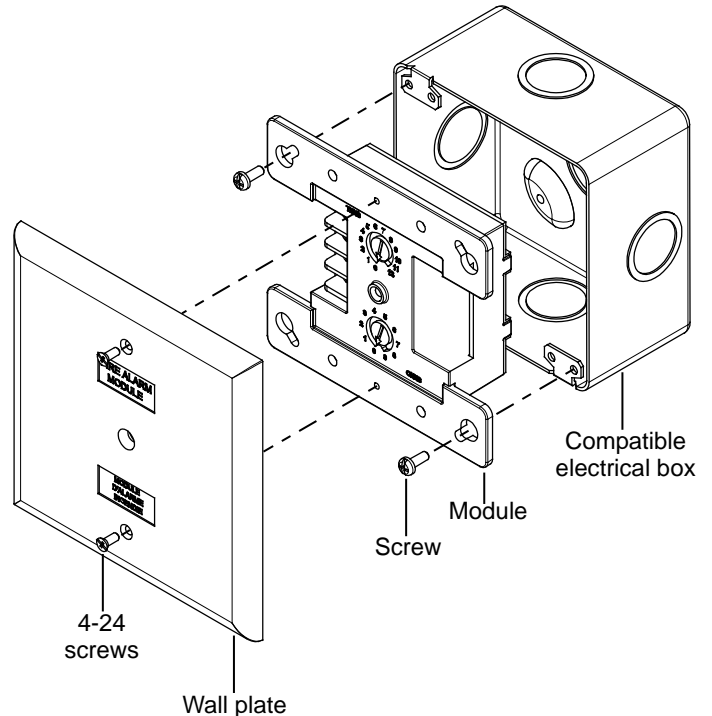


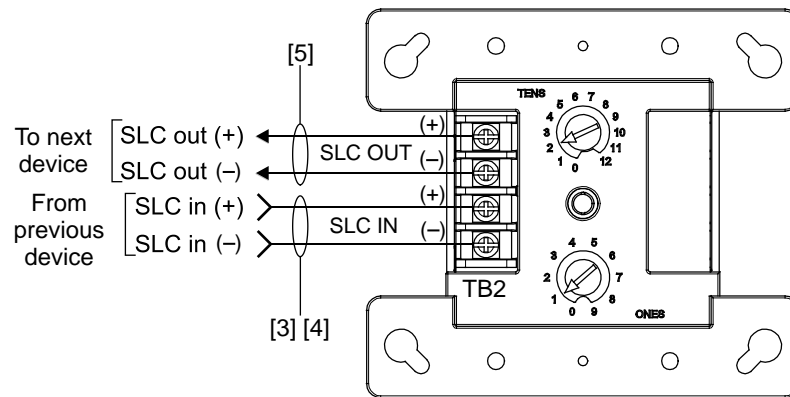
Figure 2: Module installation



Wiring

Wire in accordance with NFPA 72 and CAN/ULC-S524. Be sure to observe the polarity of the wires as shown in the diagram.

Figure 3: Module wiring



Notes

- 1 For maximum wire resistance, refer to the appropriate manufacturer's documentation
- 2 Maximum 12 AWG (2.5 mm²) wire
- [3] Refer to the control panel technical reference manual for wiring specifications
- [4] This module should be used only with Class A wiring
- [5] Maximum circuit resistance between isolators is 6 Ω
- 6 All wiring is power-limited and supervised

Specifications

Communication line voltage	Maximum 20.6 V peak-to-peak
Current	
Standby	175 μA
Activated	200 μA
Ground fault impedance	10 kΩ
Maximum circuit resistance between isolators	6 Ω
Operating environment	
Temperature	32 to 120° F (0 to 49° C)
Humidity	0 to 93% RH, noncondensing at 90° F (32° C)
Storage temperature range	-4 to 140° F (-20 to 60° C)
Compatible electrical boxes	North American 4 inch square x 2-1/2 in. (64 mm) deep 2 gang box Standard 4 in. square box 1-1/2 in. (38 mm) deep
Wire size	12, 14, 16, or 18 AWG wire (2.5, 1.5, 1.0, or 0.75 mm ²) (Sizes 16 and 18 AWG are preferred)
Module address	01 to 64 (64 point control panel) 01 to 127 (127 point control panel)