

Short Circuit Isolator Module FWC-FSLC-ISO

FEATURES:

- Can be placed at any location on SLC loop
- Checks the line for short circuit at power up. If the line is normal, the relay will remain closed; if a line short is detected, the relay remains open
- Indication of a single short circuit by a yellow LED
- Mounts to standard 4" square electrical box

DESCRIPTION:

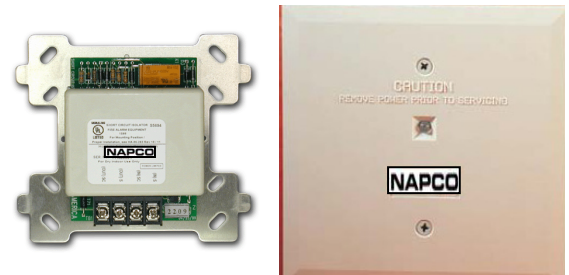
* Class A Configuration Wiring:

The FWC-FSLC-ISO short circuit isolator should be located between any devices on the SLC loop. In the event of a short on the SLC loop, the two adjacent isolators (closest isolators to the left and right of the shorted section) will activate and their respective LED indicators will be turned on. All devices between the active short circuit isolators will lose communication. This will prevent entire loop failure. Upon removal of the short condition, the FWC-FSLC-ISOs will automatically restore the entire loop to the normal operating state.

* Class B Configuration Wiring:

The FWC-FSLC-ISO short circuit isolator should be located between any devices on the SLC loop. In the event of a short on SLC loop, an isolator closest to the shorted section will activate and the LED will be turned on. **All the devices beyond the shorted section will lose communication.** Upon removal of the short condition, the FWC-FSLC-ISO will automatically restore the entire loop to the normal operating state.

For the best performance of the FWC-FSLC-ISO short circuit isolator, use class A configuration.



LISTINGS:

- UL864 9th Edition: Commercial Fire
- NFPA 72 National Fire Alarm Code
- CSFM: California State Fire Marshall
- NYCFD: NYC Fire Department

SPECIFICATION:

The contractor shall furnish and install where indicated on the plans, the Napco FWC-FSLC-ISO short circuit isolator. The modules shall be UL Listed compatible with SLC communications protocol-supported control panel loops. The isolator module must be suitable for mounting in a standard 4" square electrical box or double gang box. The isolator module must provide a yellow LED for indication of status. Manufacture recommendation is an FWC-FSLC-ISO for every 20 devices.

WIRING:

All wiring must conform to local codes, ordinances and regulations.

1. Install module wiring in accordance with job drawings and appropriate wiring diagram(s).
2. Secure the module to an approved electrical box (supplied by installer).

SPECIFICATIONS	
SLC Applied Voltage	Rated Range 25.3 - 39VDC
SLC Current Consumption	Nominal 270µA
Active Current Consumption (Short Circuit Condition)	10mA (Typical)
On Resistance	50mΩ (Normal condition)
Visual Indicator	Yellow LED Indicates Short
Operating Temperature	32°F to 120°F (0°C to 49°C) Indoor Use Only
Storage Temperature	-22°F to 70°F (-30°C to 158°C)
Maximum Relative Humidity	Up to 90% RH Non-Condensing
Dimensions	4.2"W x 4.7"H x .85"D
Weight	Approx 3 oz.

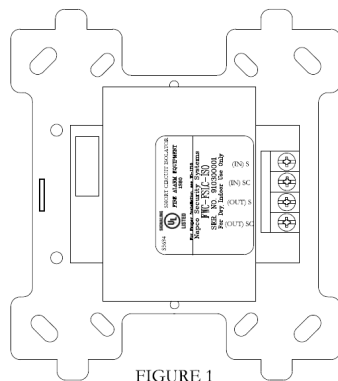


FIGURE 1

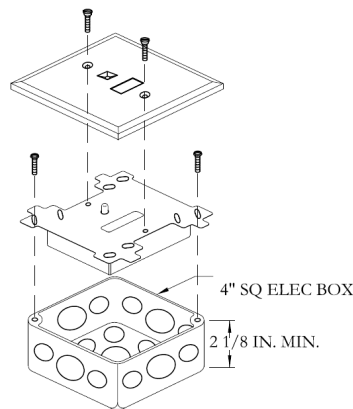


FIGURE 2
MOUNTING

NOTE: Only the same size wire from 12 to 22 AWG may be connected terminal block TB1 when more than one conductor is being connected under each terminal. Maximum of 2 conductor per terminal.

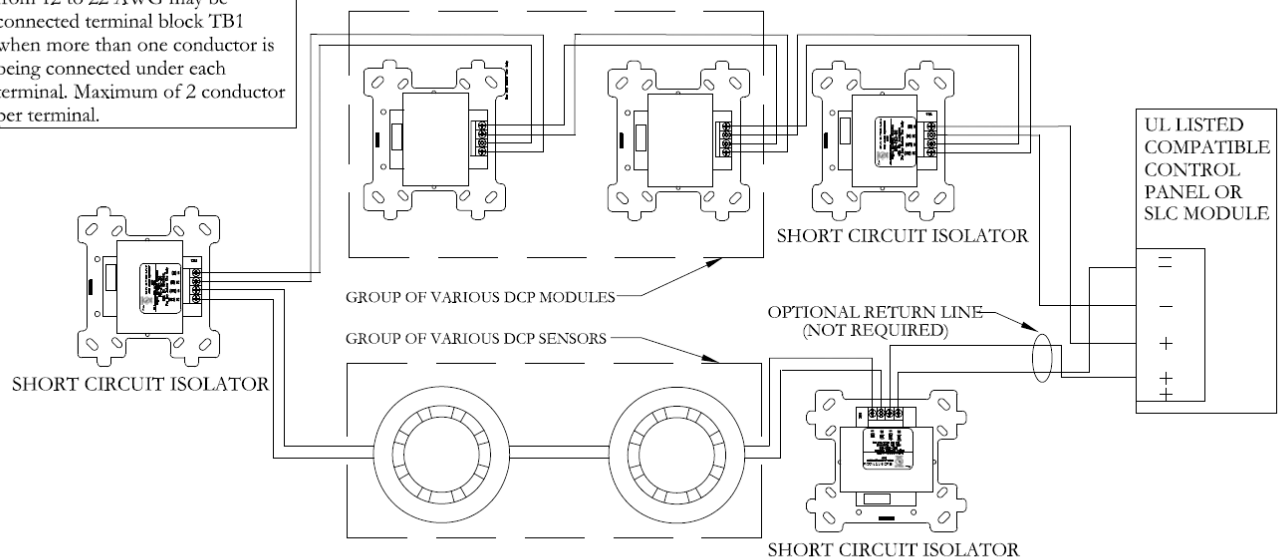


FIGURE 3
TYPICAL WIRING DIAGRAM EXAMPLE, CONNECTED
TO A COMPATIBLE LISTED CONTROL PANEL

ALL WIRING SHOWN IS SUPERVISED
AND INHERENTLY POWER LIMITED.
ANY COMBINATION OF MODULES
AND/OR SENSORS MAY BE PLACED
BETWEEN ISOLATORS