

Architect and Engineering Specification



STANDARD 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 be returned on. If a line short is detected, the relay remains open.
- Indication of short circuit by a yellow LED

SPECIFICATIONS

Absolute Maximum Applied Voltage: S, SC: 41 VDC

Supply Voltage Normal: S, SC: 33 VDC

Normal Current Consumption: 270 μ A (Typical)

Active Current Consumption: 10 mA (Typical)
(Short Circuit Condition)

Dimensions: 4.2"W x 4.7"H x 1.4"D

Weight: 1.4 oz

Visual Indicator (Yellow Status LED):

- No indication in normal condition.
- On steady in active (short) condition.

Maximum Quantity Per Loop: 127

Operation Temperature Range:
0°C (32°F)~ 49°C (120°F) Non-condensing

Allowable Ambient Humidity: 90% Non-condensing

Specifications subject to change without notice.

OPERATION

* Class A Configuration Wiring:

The 55-025 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 be dead. This will prevent entire loop failure. Upon removal of the short condition, the 55-025 will automatically restore the entire loop to the normal operating state.

* Class B Configuration Wiring:

The 55-025 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 be disabled.** Upon removal of the short condition, the 55-025 will automatically restore the entire loop to the normal operating state.

For the best performance of 55-025 short circuit, use class A configuration.

WIRING:

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

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

MOUNTING REQUIREMENTS: 4" SQ Electrical box.

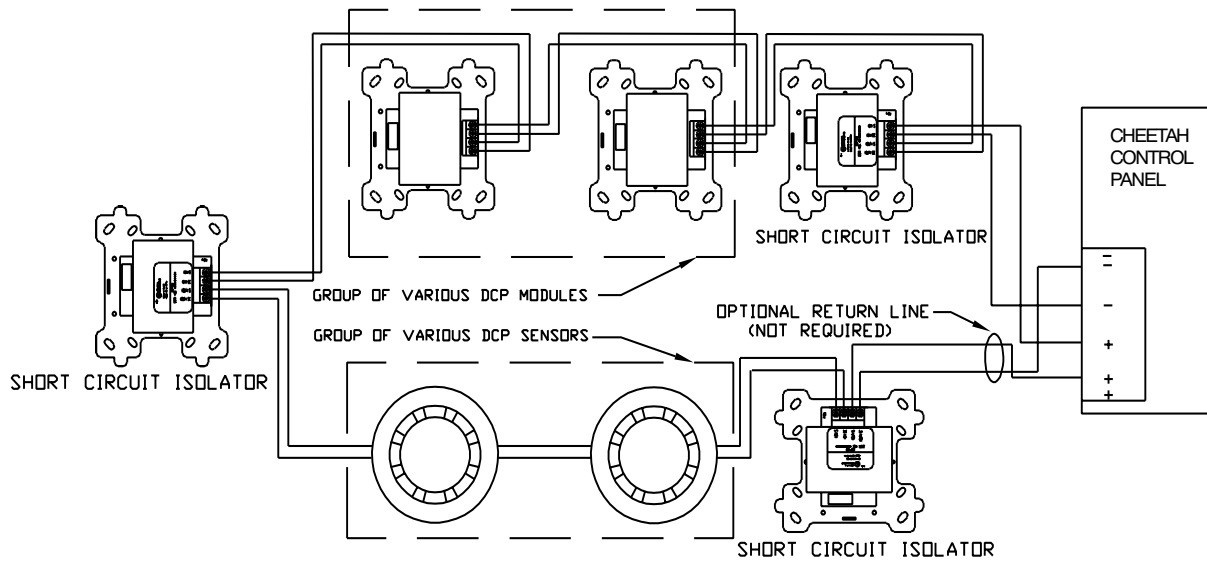
PRODUCT LISTINGS

Underwriters Laboratories:
Factory Mutual: Pending
CSFM #: Pending
MEA: Pending

ENGINEERING SPECIFICATIONS

The contractor shall furnish and install where indicated on the plans, the Fike short circuit isolator. The module shall be UL listed. The isolator module must be suitable for mounting in a standard 4" square electrical box. The isolator module must provide a yellow LED for indication of status.

WIRING DIAGRAM



TYPICAL WIRING DIAGRAM EXAMPLE.

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