# INSTALLATION INSTRUCTIONS FOR THE FFO-SCIM SHORT CIRCUIT ISOLATOR MODULE

## FEATURES:
1. Can be placed at any location on S-SC line.
2. Checks the line for short circuit at power ON.  If a line is normal, the relay will be turned on. If a line short is  detected, the relay remains open.
3. Indication of short circuit by a yellow LED.

## OPERATION:
### * CLASS A CONFIGURATION WIRING
The FFO-SCIM short circuit isolator should be located between any devices on the S-SC line. In the event of a short on the S-SC line, 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 FFO-SCIMs will automatically restore the entire loop to the normal operating state.

### ** CLASS B CONFIGURATION WIRING
The FFO-SCIM short circuit isolator should be located between any devices on the S-SC line. In the event of a short on the S-SC line, 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 FFO-SCIM will automatically restore the entire loop to the normal operating state.
**For the best performance of FFO-SCIM short circuit isolator, use class A configuration.**

## MOUNTING REQUIREMENTS:
Mount short circuit isolators as shown in Figure 2 of these instructions.

| SPECIFICATIONS | |
|---|---|
| SLC Applied Voltage | Rated Range   25.3 – 39 VDC |
| SLC Current Consumption | Nominal        270μA |
| Active Current Consumption (Short Circuit Condition) | 10mA (Typical) |
| On Resistance | 50mΩ (Normal condition) |
| Maximum quantity per loop | 127 |
| Visual Indicator (Status LED) | Yellow LED Indicates Short |
| Operating Temperature Range | 0°C (32°F) ~ 49°C (120°F) |
| Storage Temperature Range | −30°C (−22°F) ~ 70°C (158°F) |
| Maximum Relative Humidity | Up to 90% RH non−condensing |
| Environment | Indoor dry use only |
| Dimensions | 4.2"W X 4.7"H X .85"D |
| Weight | Approximately 3.0 ounces |

**WIRING:**
Note: All wiring must conform to local codes, ordinances and regulations.
1. Install module wiring in accordance with the job drawings and appropriate wiring diagram (Fig.3).
2. Secure the module to an approved electrical box (supplied by installer), as shown in Fig.2

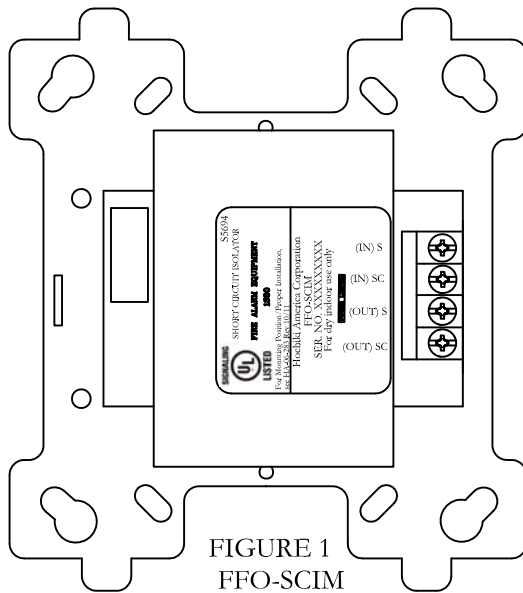Note: SLC circuit is in reference to S, and SC

FIGURE 1
FFO-SCIM

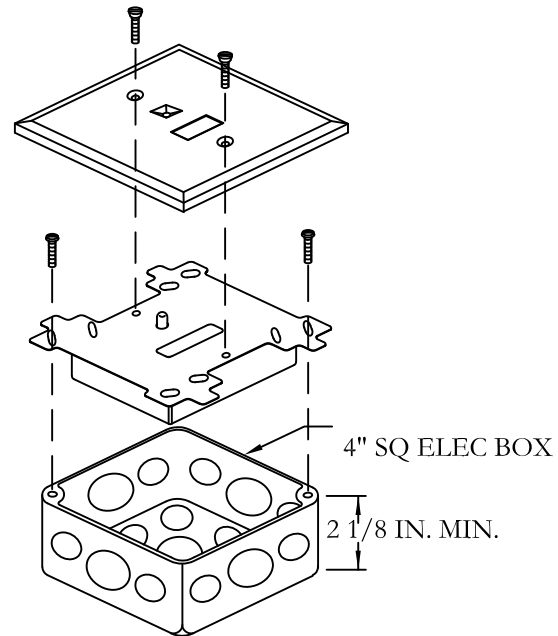4" SQ ELEC BOX

2 1/8 IN. MIN.

FIGURE 2
FFO-SCIM 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.

SHORT CIRCUIT ISOLATOR

UL LISTED COMPATIBLE CONTROL PANEL

GROUP OF VARIOUS DCP MODULES

GROUP OF VARIOUS DCP SENSORS

OPTIONAL RETURN LINE (NOT REQUIRED)

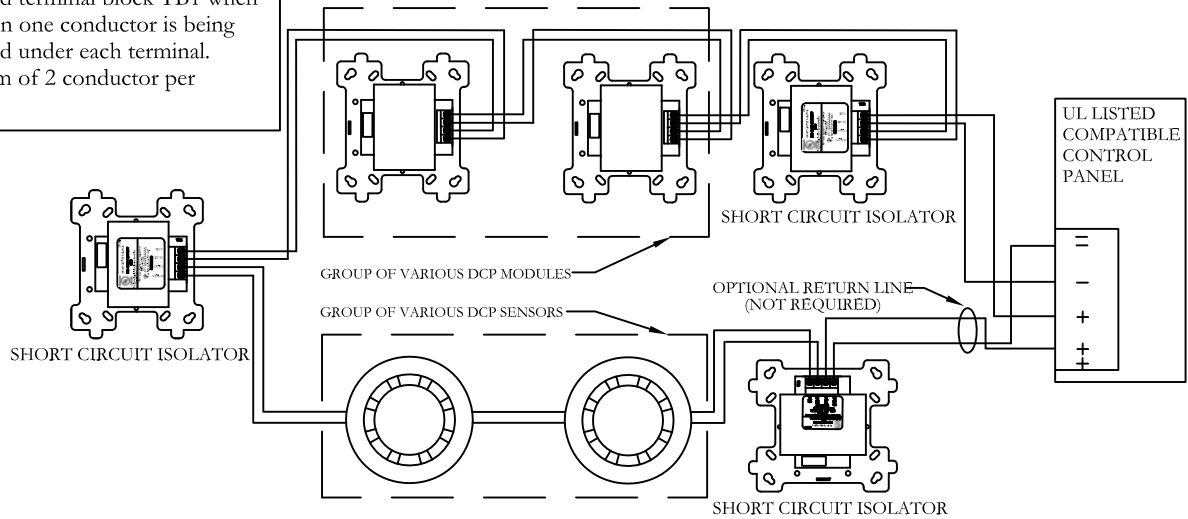SHORT CIRCUIT ISOLATOR

SHORT CIRCUIT ISOLATOR

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

TB1 SHOWN IS SUPERVISED AND INHERENTLY POWER LIMITED. ANY COMBINATION OF MODULES AND/OR SENSORS MAY BE PLACED BETWEEN ISOLATORS

# One Year Limited Warranty

Hochiki America (HA) warrants its digital communication modules to be in conformance with it's own plans and specifications and to be free from defects in materials and workmanship under normal use and service for a period of one (1) year from date of delivery. All warranties are void and HA is not obligated to repair or replace equipment which has been repaired by others, abused, improperly installed, altered or otherwise misused or damaged or exposed to conditions outside the products specifications in any way. HA will not be responsible for any dismantling, reassembling or re-installation charges. Please contact HA's Sales department for proper procedure for claims and return of merchandise. This warranty is in lieu of all other warranties expressed or implied.