



## INSTALLATION INSTRUCTIONS FOR THE DCP-SCI 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 DCP-SCI 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 DCP-SCIs will automatically restore the entire loop to the normal operating state.

#### \*\* CLASS B CONFIGURATION WIRING

The DCP-SCI 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 DCP-SCI will automatically restore the entire loop to the normal operating state.

**For the best performance of DCP-SCI short circuit isolator, use class A configuration.**

### MOUNTING REQUIREMENTS:

Mount short circuit isolators as shown in Figure 2 of these instructions.

### 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

### SPECIFICATIONS

Absolute Maximum Applied Voltage	S, SC: 41 VDC
Supply Voltage Nominal	S, SC: 33 VDC
Normal Current Consumption	270 $\mu$ A (Typical)
Active Current Consumption (Short Circuit Condition)	10mA (Typical)
On Resistance	50m $\Omega$ Maximum (normal 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
Storage Temperature	-30°C (-22°F) ~ 70°C (158°F)
Allowable Ambient Humidity (at 40°C / 104°F)	90% RH Non-condensing

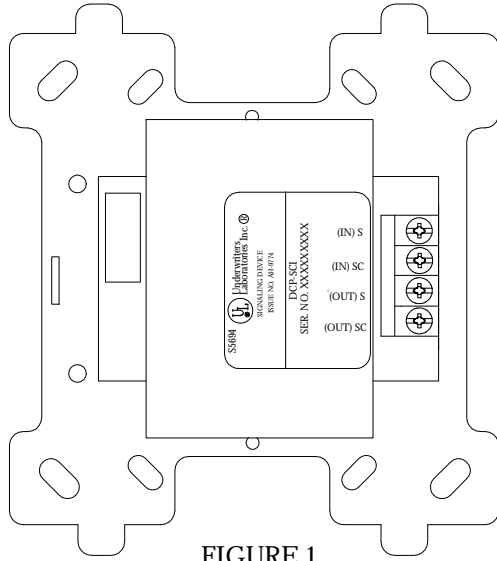


FIGURE 1  
DCP-SCI

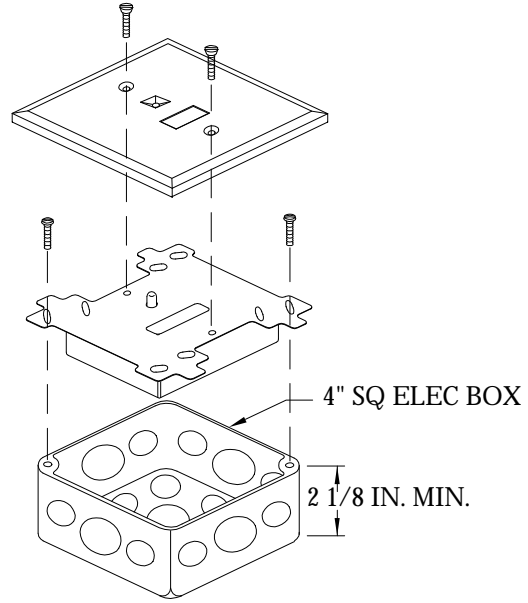


FIGURE 2  
DCP-SCI MOUNTING

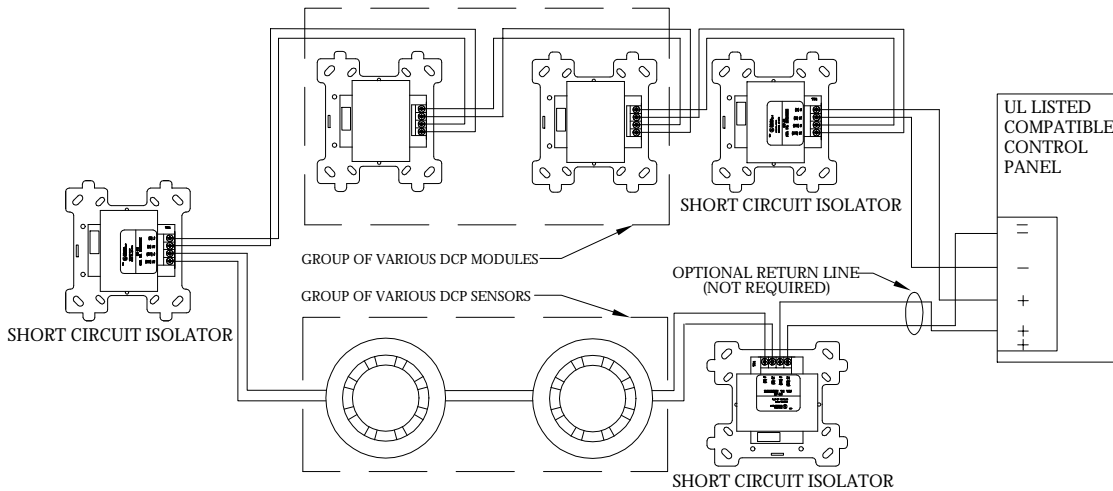


FIGURE 3  
TYPICAL WIRING DIAGRAM EXAMPLE, CONNECTED  
TO A COMPATIBLE LISTED CONTROL PANEL

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

## One Year Limited Warranty

Hochiki America (HA) warrants its digital communication modules to be in conformance with its 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.