SCI - SHORT CIRCUIT ISOLATOR

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 a single short circuit by a yellow LED
- Does not use an SLC address

SPECIFICATIONS

Supply Voltage (S-SC)	25.3 ~ 39 VDC
Average Current Consumption	270µA (Typical) 10 mA (Active Short Condition)
Visual Indicator, Yello LED	Normal: Off, Active: On
Dimensions	4.2"W x 4.7"H x 1.4"D
Weight	1.4 oz
Operating Temperature	32°F (0°C) ~ 120°F (49°C)
Relative Humidity	90% RH Non-Condensing
Mounting Requirements	4" square electrical box or double gang box

PRODUCT LISTINGS

SIGNALING UL LISTED S5694

ULC CS943

California State Fire Marshal 7300-0410:150

MEA 284-91-E Vol. IV

Specifications subject to change without notice.

OPERATION

*** Class A Configuration Wiring:**
The DCP-SCI 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 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 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 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.

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 the installer).

Hochiki America does not provide specific recommendations regarding the number of devices to place between each SCI module. This is because the SCI module can be positioned anywhere on the Signaling Line Circuit (SLC) / Detection Loop, it does not require a device address, it consumes minimal quiescent current and is designed to help protect the system's operation in the event of an SLC / Detection Loop short-circuit.

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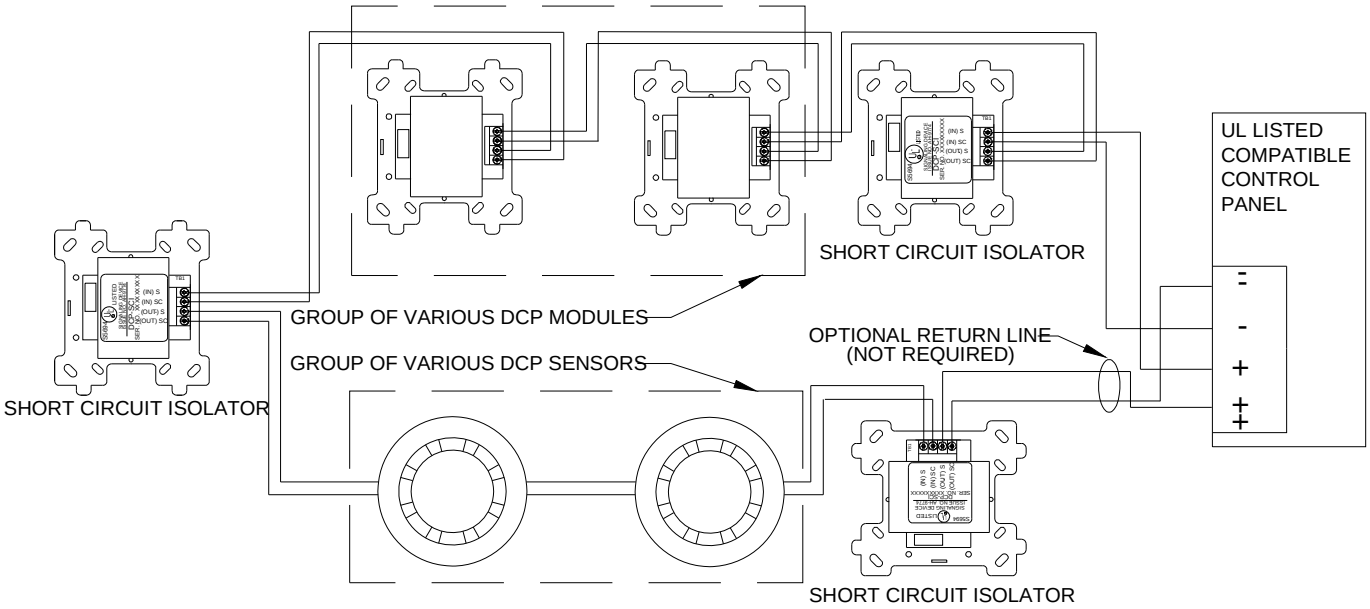
ENGINEERING SPECIFICATIONS

The contractor shall furnish and install where indicated on the plans, the Hochiki DCP-SCI short circuit isolator. The modules shall be UL listed compatible with Hochiki Digital Communications Protocol (DCP) supporting control panel loops. The isolator module must be suitable for mounting in a standard 4" square electrical box or double gang. The isolator module must provide a yellow LED for indication of status.

Back side of a DCP-SCI

WIRING DIAGRAM



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