TECHNICAL DATA SHEET
for use by Architects & Engineers

Short Circuit Isolator
Model No: LE-DCP-SCI

The contractor shall furnish and install where indicated on the plans, the Lifeco LE-DCP-SCI short circuit isolator. The modules shall be UL listed compatible with Lifeco Digital Communications Protocol (LE-DCP) supporting control panel loops. 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.

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

Description
* Class A Configuration Wiring:
The LE-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 be dead. This will prevent entire loop failure. Upon removal of the short condition, the LE-DCP-SCIs will automatically restore, the entire loop to the normal operating state.

* Class B Configuration Wiring:
The LE-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 be disabled. Upon removal of the short condition, the LE-DCP-SCI will automatically restore the entire loop to the normal operating state.

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

Technical & Environmental Specification

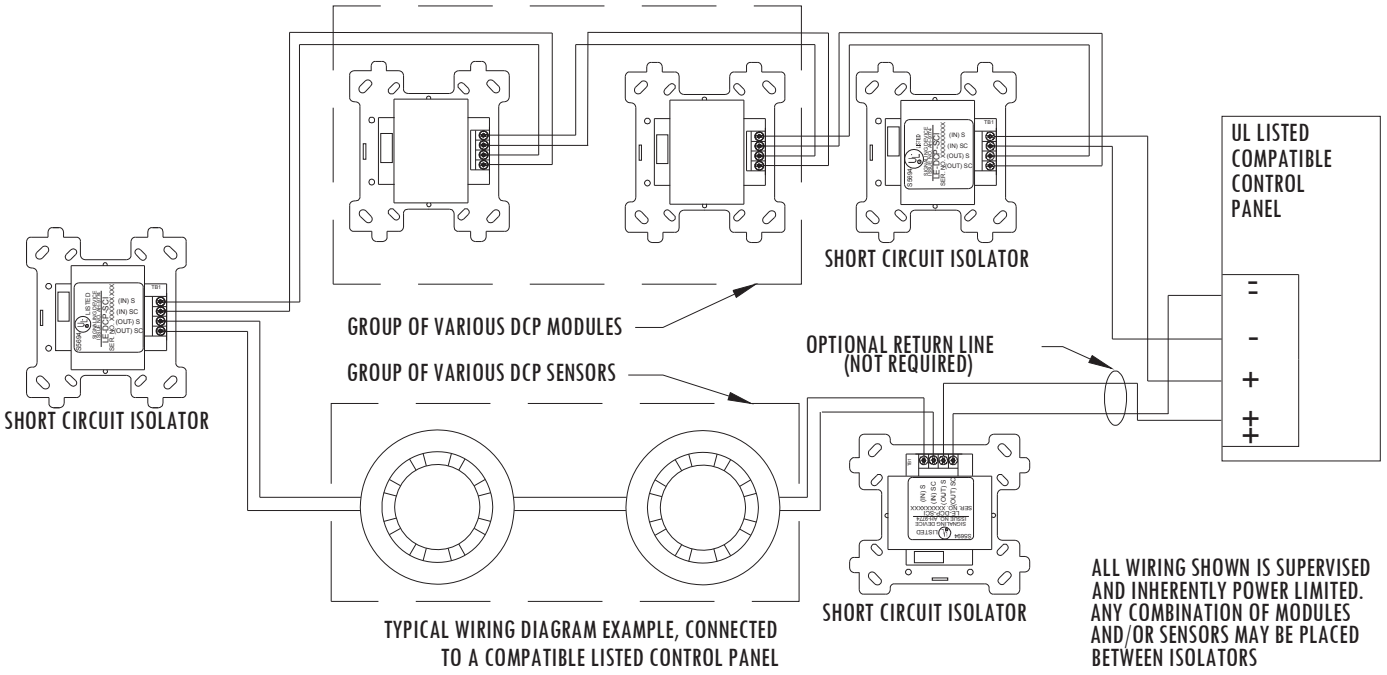
Supply Voltage (S-SC)	33 ~ 41 VDC
Average Current Consumption	270µA (Typical)
	10 mA (Active Short Condition)
Visual Indicator (Yellow LED)	Normal: Off
	Active: On
Dimensions	4.2"W x 4.7"H x 1.4"D
Weight	1.4 oz
Operating Temperature	32°F (0°C) ~ 120°F (49°C)
Mounting	4" square electrical box
Relative Humidity	90% RH Non-Condensing

Back of a LE-DCP-SCI

Note: All wiring must conform to local codes, ordinances and regulations.
- Install module wiring in accordance with job drawings and appropriate wiring diagram.
- Secure the module to an approved electrical box (supplied by installer).

MOUNTING REQUIREMENTS: 4" SQ Electrical box or double gang.

Wiring Details



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