

AS6003-00

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 short circuit by a yellow LED.

Application

The Avenger AS6003 Short Circuit Isolator provides the capability of allowing NFPA SLC Style 7 installations.

Operation

Class A Configuration Wiring:

The AS6003 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 an entire loop failure.

Upon removal of the short condition, the AS6003 devices will automatically restore the entire loop to the normal operating state.

Class B Configuration Wiring:

The AS6003 short circuit isolator should be located between any devices on the SLC loop. In the event of a short on the 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 AS6003 will automatically restore the entire loop to the normal operating state.

For the best performance, use class A configuration.

Technical Specifications

Absolute Max. Applied Voltage: S, SC 41 VDC
Supply Voltage Nominal: S, SC 33VDC
Normal Current Consumption: 270µA
Active Current Consumption (Short Circuit Condition): 10mA
Dimensions: 4.2" W x 4.7" H x 1.4" D
Maximum Humidity: 90% RH Non-Condensing
UL Ambient Installation Temperature Range: 32° F to 120° F
Weight: 1.4 oz
Visual Indicator (Yellow Status LED)
Normal condition: No indication
Active (short) condition: On Steady
SLC Maximum Resistance: 50 ohms