Digital Security Controls

Publications Cover Sheet

Part Number: 29005804

Revision: R003

Release Number: 4395

Notes: AML-900 references removed

Description: AML-770 Loop Isolator Installation Sheet -en

Type: 33-01   8.5 x 11 White (Paper)

Pieces: 1

Printing Instructions: Master Size: 8.5 X 11
Number of Sheets in Master: 2
2 - Sided Printing
Cover Printing Not Required
Finishing: Signature Booklet
Note: Booklets more than 10 sheets must be trimmed.

AML-770 Loop Isolator

Installation Instructions

The AML-770 loop isolator provides short circuit isolation for devices on an AML loop. In the event of a short circuit, the loop isolator will open the positive side of the loop, isolating all devices connected between it and the next AML-770 loop isolator. When the short circuit condition is removed, the isolator will automatically return to normal operation. A red LED on the isolator flashes at 10 second intervals to indicate normal operation (no short). During a shorted condition, the LED stays on (not flashing) until the short is removed.

SPECIFICATIONS

Voltage	2VDC (nominal)
Current	Normal Mode - 300µA / Isolation Mode - 10mA
Short Circuit Detection	2.0 to 3.0VDC (2.5VDC nom.)
Current Capacity	1.5A (max.)
Temperature	0°-49°C (32° - 120°F)
Humidity	0 to 93% RH, non-condensing

Models
- AML-770 A
- AML-770 B
- AML-770 C

Compatible Control Panels
- PC4010/4020
- PC4010CF/4020CF
- P-864/P-16128
- P-864CF/P-16128CF

Class B/Style 4 Operation
In Class B/Style 4 configuration, one AML-770 loop isolator is used on each detector branch. A short circuit condition on one branch will isolate that branch, leaving the remaining branches in operation. A maximum of 25 detectors may be connected to each branch.

Note: For ULC Listed applications, use only on the addressable burglary loop of compatible control panels (indicated above).
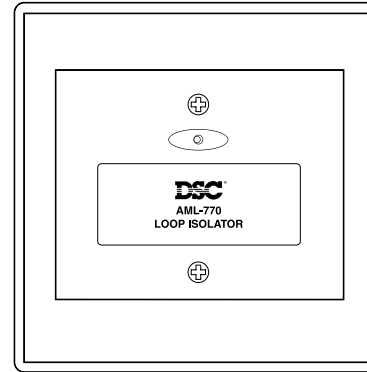
AML-770 LOOP ISOLATOR

Installation Instructions

The AML-770 loop isolator mounts in a standard 2 gang electrical junction box or a 4 inch junction box.
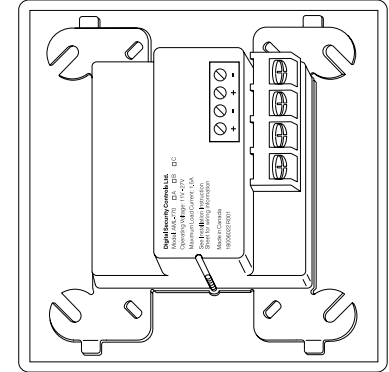
Refer to the accompanying illustrations

1. Wire system as required for Class B/Style 4 as indicated.

   CAUTION: Do NOT use looped wire under detector terminals. Break wire run to provide supervision of connections.

2. Route AML loop wiring through the junction box. Connect the 4 wires to the terminals on the PC Board.

3. Position the module on the junction box and secure module to the junction box with the screws provided.

4. Align the cover over the the module using the two screw holes as a guide. Secure cover to module with the screws provided

5. Perform system test to verify correct wiring.

AML-770
Front View

AML-770
Rear View

Typical ClassB / Style 4 Wiring

Control Panel

Loop Out   Pgm 1/Pgm 2 Common

1(+) 2(-) 3(+) 4(-)

1(+) 2(-) 3(+) 4(-)

AML-770 Loop Isolator

NOTE: All devices are supervised. Loop is power limited.

Control panel compatible detectors

Additional branch detectors

Maximum 25 detectors in each branch

NOTE: Fire and burglary devices must be separated when they are combined on the same addressable loop.