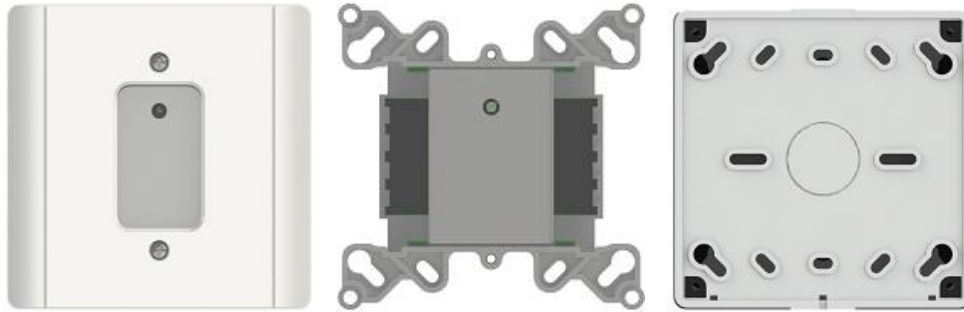


FW851 ISOLATOR MODULE



DESCRIPTION

The FW851 isolator module isolates the short point on the signaling line circuit (SLC). The internal relay will be triggered to cut down the line power where the short trouble is detected. The device LED will indicate the trouble condition by yellow steady on. A return to normal condition will cause the internal relay to normal position to restore the line power and the device LED indicator will return to the idle condition. The FW851 does not occupy an address on the Fire Alarm Control Panel's SLC, so no address programming is required. The FW851 is a UL listed product according to UL864 and ULC-S527 for Fire Protective Signaling Systems for indoor use.

ATTENTION



The products must be installed in accordance with the NFPA 72, the CAN/ULC-S524, and the Canadian Electrical Code depending on the country of installation. Check information of equipment used in the system by other manufacturers for any guidelines or restrictions.

NOTE

Do not paint this device.

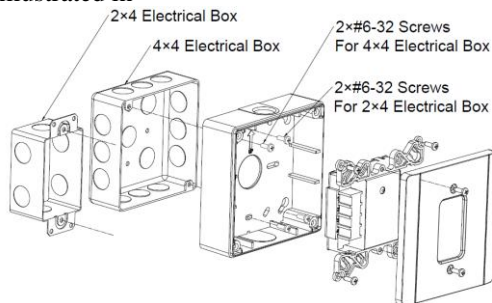
Any material extrapolated from this document or from Maple Armor's instructions or other documents describing the product for use in promotional or advertising claims, or for any other use, including description of the product's application, operation, installation, and testing is the sole responsibility of the user. Maple Armor will not assume any liability for such use. In no case will Maple Armor's liability exceed the purchase price paid for a product.

SPECIFICATION

Nominal Voltage	24VDC
Voltage Range	15 to 28VDC
Standby Current	1.6mA
Active Current	10.8mA
Operating Temperature	32°F to 120°F (0°C to 49°C)
Operating Humidity	0% to 93% RH
Dimension	120 mm (L) x 120 mm (W) x 45 mm (H)
Weight (with backbox)	8.8 oz (249 g)
Mounting	FW800 Base
Mounting Location	Indoor Wall
Wiring Gauge	12 to 18 AWG

INSTALLATION

1. Mount the FW800 base onto a 2X4 or 4x4 electrical box using the screws provided, as illustrated in



2. Figure 1.

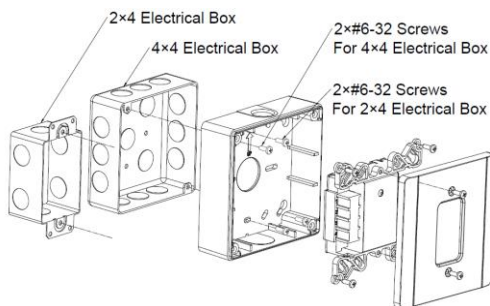


Figure 1. Installation Diagram

3. Connect the wires, see Figure 2. There is polarity insensitive between terminal 1 and terminal 2, and between terminal 7 and 8. All circuits are power-limited.

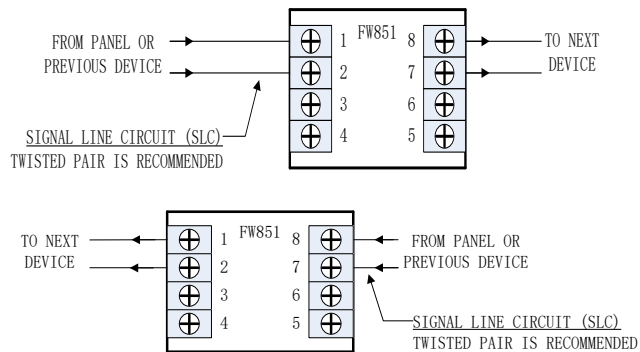
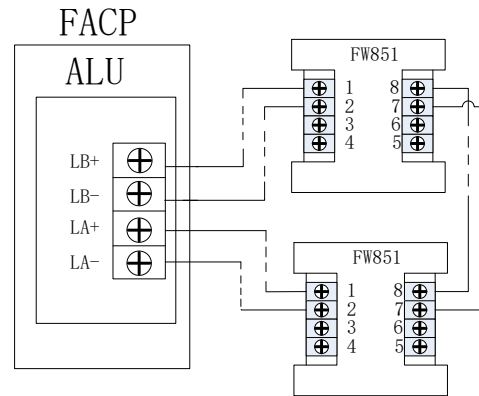
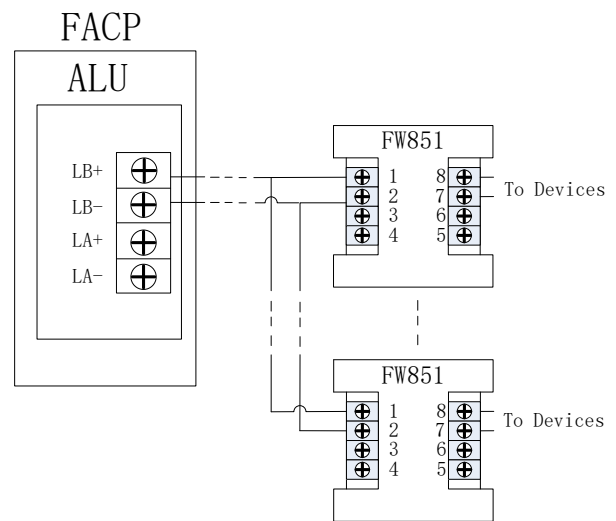


Figure 2. Module Wiring Diagram

4. Wire the SLC to the module, as illustrated in Figure 3.



(a) Class A Circuit



(b) Class B Circuit

Figure 3. SLC Wiring Diagram

5. Combine the assembled unit to the base using the screws provided.
6. Apply power to the control unit.

Testing

1. Before testing, inform the proper authorities that the system is undergoing maintenance and will temporarily be put out of service. Disable the system to prevent unwanted alarms.
2. Make a short circuit trouble on the SLC. Check the FW851 internal relay to see if it is triggered and to verify if the LED turned to steady on.
3. Restore the short circuit trouble and check the FW851 internal relay to see if it is restored to normal position and to verify that the LED turned off.
4. Once the testing is completed, set the system back to normal operation and inform proper authorities.

Maintenance

Return the module for repair if it fails to flash or alarm during testing. Do not disassemble the module without permission.