

Isolator Module

FW2851



Overview

The FW2851 Isolator Module is designed to operate with a Maple Armor fire alarm control panel(s). It does not require an address on the signaling line circuit (SLC).

It is used to enable part of the signaling line circuit (SLC) to continue operating should a short circuit occur.

According to UL864 and ULC-S527, it is a UL-listed device for indoor use in fire protective signaling systems.

Features

- Durable material and solid parts
- Two visible status LED indicators for activation alerts
- Easy installation
- Mounts to a standard 4-inch square electrical box
- For dry indoor installation
- Up to 252 addressable devices per loop
- Address programmed via handheld programmer

Compatibility

The FW2851 module is compatible with the Maple Armor Series 2 Control Panels.

- FW2105 – Fire Alarm Control Panel
- FW2107 – Releasing Panel

Note: Refer to each panel data sheet for more information.

Operation

This module isolates the short point on the signaling line circuit (SLC). When the short trouble is detected, the internal relay is triggered to cut down the line power.

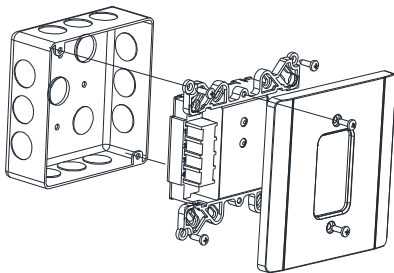
It does not occupy an address on the SLC; therefore, no programming is required on the control panel.

Diagnostic LED

The module features two yellow diagnostic LEDs on the front to provide a visible indication of its status. The LEDs are turned off in normal conditions and ON in trouble conditions on sides A (terminal 1/2) and B (7/8) individually.

Installation

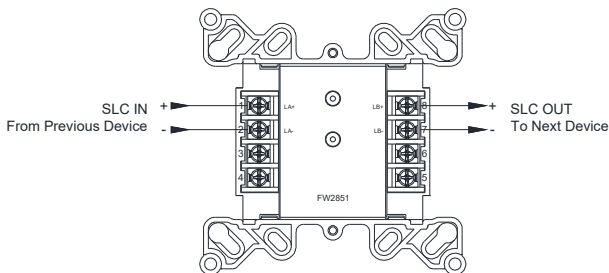
The FW2851 Isolator module can be flush mounted to standard North American 4-inch square boxes. A Maple Armor plastic surface box is also available.



This device requires electrical power to operate. Since fires often cause power interruptions, we recommend consulting your local fire protection specialist for additional safeguards.

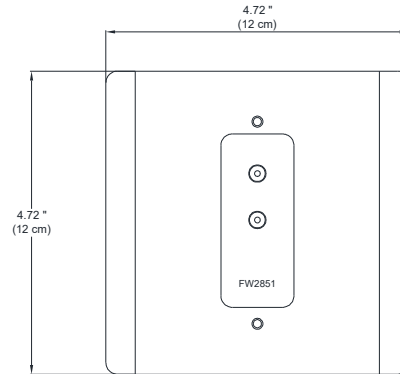
Wiring

Field wiring is to be completed using the module's screw terminals. The terminals are suited for 18 to 12 AWG (0.82 mm² to 3.31 mm²) wire size.



Note: check module installation instruction sheet for more installation and wiring options and details.

Dimensions



Testing & Maintenance

Before testing, notify the authorities that the system will be temporarily out of service. Disable the system to prevent unwanted alarms. Ensure the indicator LEDs are off; check the wiring and remount the device. Create a short circuit trouble on the SLC/DCL. Check if the FW2851 internal relay is triggered and verify that the LED turns to a steady ON.

Specifications

Nominal Voltage	24 VDC
Operating Voltage Range	13 to 28 VDC
Standby Current	≤ 0.25 mA
Alarm Current	≤ 10.8 mA
Max. alarm current	400 mA during activation
Max. standby current	350 mA during normal condition
Isolator activation	Max. 2.53 V on SLC/DCL
Operating Temperature	0° C to 49° C (32° F to 120° F)
Operating Humidity	0 to 93% RH Non-condensing
Installation Environment	Dry indoor use only
Housing Material	High impact plastic
Dimension	120 mm (L) x 120 mm (W) x 45 mm (H)
Wire Connections	Screw terminal
Wire Size	18 to 12 AWG (0.82 mm ² to 3.31 mm ²)
Regulatory Compliance	UL/ULC, FCC, CSFM

Ordering Information

Model	Description	Ship Wt. Kg (lbs)
FW2851	Isolator Module	0.140 (0.31)
Accessories		
FW800	Surface Mount Box, Plastic	0.117 (0.26)
FW801	Deep Surface Mount Box, Plastic	0.137 (0.30)
FW422	10KΩ End-of-Line Resistor, Mounting Plate	0.125 (0.28)

*Accessories are ordered separately.



This document is for marketing and informational purposes only. It is not intended to be used for installation, operation, or maintenance of the device.

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For complete and accurate installation instructions, wiring details, and operational guidelines, refer to the official Device Installation Sheet provided with the product. The manufacturer reserves the right to make changes to product specifications without prior notice.