

Relay Module

FW2831



Overview

The FW2831 Relay Module is an intelligent, addressable device designed to operate with a Maple Armor fire alarm control panel(s). It requires one address on the signaling line circuit (SLC).

It is used to connect two control relay outputs, which will be activated simultaneously.

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
- Visible status LED indicators for alarm and trouble
- Easy installation
- Supports two NO/NC relay contacts
- 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 FW2831 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

Set the device address using the Maple Armor handheld programmer FW2411 before connecting the module to the SLC.

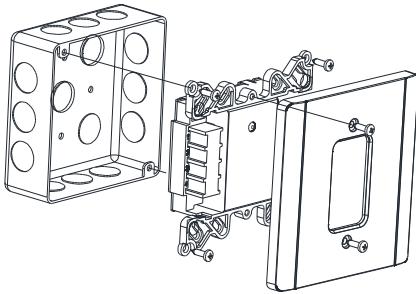
The module provides two Form "C" dry contact relays to control various control functions, such as elevator recalls, dampers, fan shutdowns, etc. The contact rating is 2.0 amp @ 30 Vdc and 0.5 amp @ 125 Vac.

Diagnostic LED

The module features a red diagnostic LED on the front to provide a visible indication of its status. The LED will flash in normal conditions and stay steady in activated conditions.

Installation

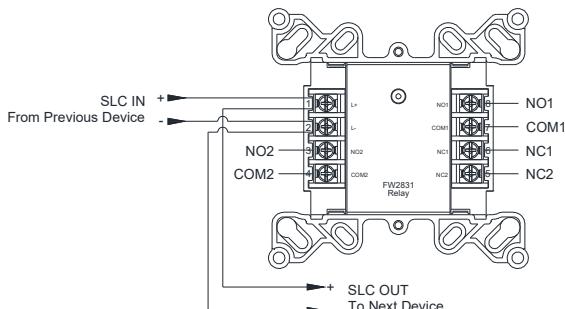
The FW2831 Relay Module can be flush mounted to standard North American 4-inch square boxes. A Maple Armor plastic surface box is also available.



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

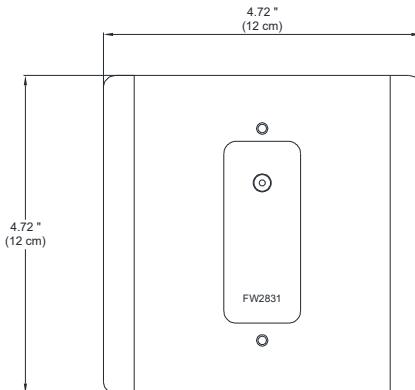
Wiring

Field wiring is to be completed using the screw terminals on the module. 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 LED is flashing; if not, check the wiring and remount the device. Activate a fire alarm signal and verify that the LED turns steady.

Specifications

Nominal Voltage	24 VDC
Operating Voltage Range	13 to 28 VDC
Standby Current	$\leq 0.15\text{mA}$
Alarm Current	$\leq 0.25\text{mA}$
Contact Rating	30VDC 2A, 0.35 pf or 125VAC 0.5A, 0.35 pf
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)
FW2831	Relay 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.