

Supervised Output Module

FW2821

Overview

The FW2821 Supervised Output 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 a single 24VDC output and a single Alarm, Supervisory, Trouble, or Monitor-type dry contact Initiating Device Circuit (IDC). The module's programming options in the panel determine this.

This module supports a single Class B, normally open or normally closed; it connects to a dry contact initiating device circuit (IDC) and must terminate with an EOL.

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 alarm and trouble
- Easy installation
- Supports one Class B input and one Class B output
- Input latched/non-latched selectable
- 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 FW2821 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.

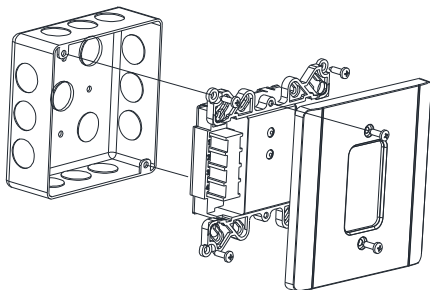
The module can be configured to be an alarm, supervisory, trouble, or monitor type.

Diagnostic LED

The module features two red diagnostic LEDs on the front to provide a visible indication of its status. The LEDs flash in standby conditions and stay steady in event conditions.

Installation

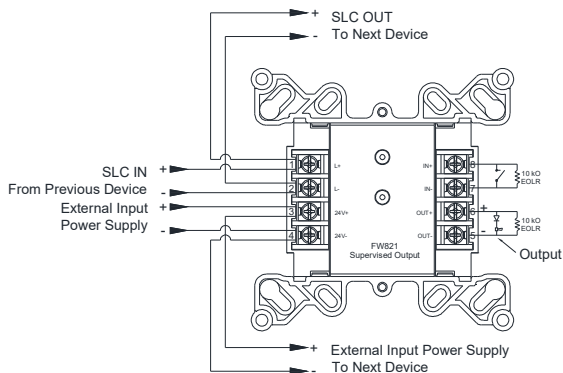
The FW2821 Supervised Output Module can be flush mounted to standard North American 4-inch square boxes. A Maple Armor plastic surface box is also available.



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

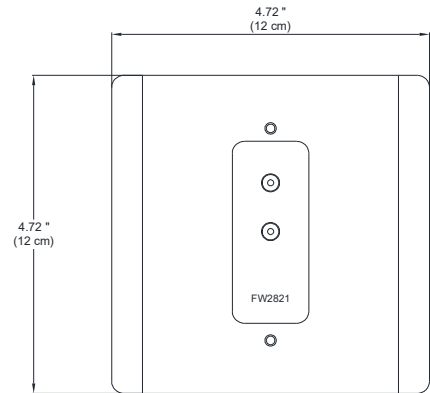
Wiring

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 LEDs are flashing; if not, check the wiring and remount the device. Activate a fire alarm signal and verify that the LEDs turn steady.

Specifications

| | |
|------------------------------|--|
| Nominal Voltage | 24 VDC |
| Operating Voltage Range | 13 to 28 VDC |
| Standby Current | ≤0.2mA |
| Alarm Current | ≤0.35mA |
| External Input Power Supply | 24VDC (nominal) 15.4VDC to 26.4VDC compatible range |
| Active Current (Output) | 2A, 0.35pF |
| Output Range | 15.1 to 26.4 VDC |
| Max. Line Impedance | 25 Ω for Input Circuit 1 Ω for Output Circuit |
| Recommended Test Impedance | 5 MΩ for Open Circuit trouble 0.1 Ω for Short Circuit trouble |
| Max. Impedance for Grounding | 6.6 KΩ |
| Compatible EOLR | 10KΩ |
| 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) |
|--------------------|---|----------------------|
| FW2821 | Supervised Output 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.