

Conventional Zone Module

FW2841



Overview

The FW2841 Conventional zone 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).

This module interfaces and monitors 2-wire conventional detectors in Class B wiring. The initiating zone can support a mix of 2-wire conventional automatic detectors and normally open dry contact alarm initiating devices such as mechanical heat detectors and manual stations.

It is a UL-listed device, according to UL864 and ULC-S527, 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 Class A and Class B inputs
- 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

Compatible List

Compatible conventional 2-wire smoke detectors

Model	Manufacturer	Max. detectors per zone
55000-325	Apollo	32
55000-326	Apollo	32
55000-327	Apollo	32
55000-328	Apollo	32
C2W-BA	System Sensor	32(CLASSA)
C2W-BA	System Sensor	20(CLASSB)

Compatibility

The FW2841 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.

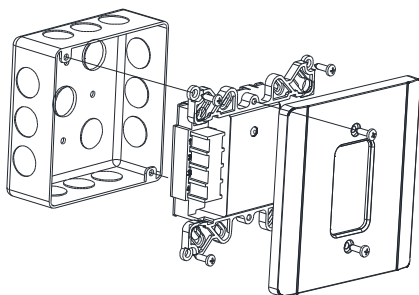
The module connects to an initiating zone and supports a mix of 2-wire conventional automatic detectors and normally open dry contact alarm initiating devices, such as mechanical heat detectors and manual stations.

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

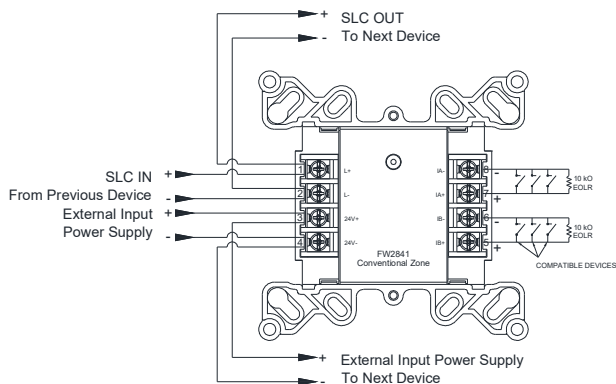
The FW2841 Conventional Zone Module can be flush mounted to standard North American 4-inch square boxes. A Maple Armor plastic surface box is also available.



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

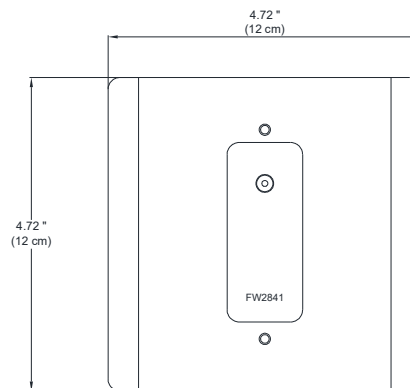
Wiring

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 the 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	0.8 mA
Alarm Current	1.7 mA
External Input Power Supply	18.5 VDC to 28 VDC compatibility range
Max. IDC Line Impedance	25 Ω
Max. Impedance for Grounding	6.6 K Ω
Max. rated operating voltage range	15.5 V – 27.5 V
Max. alarm current	43 mA
Max. capacitance loading	1 μ F
Min. Normal Standby impedance	5.5 K Ω
Max. alarm reset voltage	0.2 V
Min. alarm reset time	9 s
Max. alarm verification retard reset time	40 s
Max. detector restart time for alarm verification	40 s
Compatible EOLR	2 K Ω to 5.6 K Ω
Operating Temperature	-10° C to 55° C (14° F to 131° F)
Operating Humidity	0 to 95% 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)
FW2841	Conventional Zone 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.