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DF-52130 E-350

CMF and CRF Series Addressable Control and Relay Modules

Section: Addressable Devices

GENERAL

CMF-300 Control Module (Replaces C304)

The CMF-300 Addressable Control Module provides Fire-Lite Alarm's MS-9200 and MS-9600 intelligent control panels a supervised Class B (Style Y) or Class A (Style Z) circuit for Notification Appliances (horns, strobes, etc.). Addressability allows the CMF to be activated, either manually or through panel programming, on a select (zone or area of coverage) basis.

CRF-300 Relay Module (Replaces C304 configured as a relay)

The CRF-300 Addressable Relay Module provides the MS-9200 and MS-9600 systems with two isolated sets of Form-C dry-contact outputs for activating a variety of auxiliary devices, such as fans, dampers, door holders, control equipment, etc. Addressability allows the dry contact to be activated, either manually or through panel programming, on a select basis.

FEATURES

- Built-in type identification automatically identifies these devices to the control panel.
- Internal circuitry and relay powered directly by two-wire SLC loop. The CMF module requires power (for horns, strobes, etc.).
- Integral LED "blinks" green each time a communication is received from the control panel and turns on in steady red when activated.
- High noise immunity (EMF/RFI).
- The CMF may be used to switch 24-volt NAC power.
- Wide viewing angle of LED.
- SEMS screws with clamping plates for wiring ease.
- Direct Decade 01-99 (MS-9200) and 01-159 (MS-9600) entry of address.

APPLICATIONS

The CMF is used to switch 24 VDC audible/visual power. The CRF may be programmed to operate dry contacts for door holders, Air Handling Unit shutdown, etc.

CONSTRUCTION

- The face plate is made of off-white Noryl®.
- Controls include two rotary switches for direct-dial entry of address (01-99 on the MS-9200 and 01-159 on the MS-9600).
- The CMF is configured for a single Class B (Style Y) or Class A (Style Z) Notification Appliance Circuit.
- The CRF provides two Form-C dry contacts that switch together.

Noryl® is a registered trademark of GE Plastics, a subsidiary of General Electric Company.



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CMF-300 and CRF-300 Module

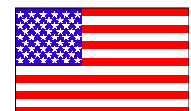
OPERATION

Each CMF or CRF uses one of 99 (MS-9200) or 159 (MS-9600) possible module addresses on a SLC loop. It responds to regular polls from the control panel and reports its type and status, including the open/normal/short status of its Notification Appliance Circuit (NAC). The LED blinks with each poll received. On command, it activates its internal relay. The CMF supervises Class B (Style Y) or Class A (Style Z) notification or control circuits.

Upon code command from the panel, the CMF will disconnect the supervision and connect the external power supply in the proper polarity across the load device. The disconnection of the supervision provides a positive indication to the panel that the control relay actually turned ON. The external power supply is always relay isolated from the communication loop so that a trouble condition on the external power supply will never interfere with the rest of the system.

Rotary switches set a unique address for each module. The address may be set before or after mounting. The built-in TYPE CODE (not settable) will identify the module to the control panel, so as to differentiate between a module and a sensor address.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Fire-Lite Alarms, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll Free FAX: (877) 699-4105, FAX Back:(888) 388-3299.



Made in the U.S.A.

SPECIFICATIONS FOR CMF

Normal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.1 mA (LED on).

Average operating current: 390 μ A (LED flashing).

External supply voltage (between Terminals T3 and T4): maximum 80 volts (RMS or DC).

Drain on external supply: 2 mA maximum (using internal EOL relay).

EOL resistance: 47K ohms.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% non-condensing.

Dimensions: 4.5" (114.3 mm) high x 4" (101.6 mm) wide x 1.25" (31.75 mm) deep. Mounts to a 4" (101.6 mm) square x 2.125" (53.975 mm) deep box.

SPECIFICATIONS FOR CRF

Normal operating voltage: 15 to 32 VDC.

Maximum current draw: 5.1 mA (LED on).

Average operating current: 270 μ A (LED flashing).

EOL resistance: not used.

Temperature range: 32°F to 120°F (0°C to 49°C).

Humidity range: 10% to 93% non-condensing.

Dimensions: 4.5" (114.3 mm) high x 4" (101.6 mm) wide x 1.25" (31.75 mm) deep. Mounts to a 4" (101.6 mm) square x 2.125" (53.975 mm) deep box.

PRODUCT LINE INFORMATION

CMF-300 Intelligent Addressable Control Module.

CRF-300 Intelligent Addressable Relay Module.

SMB500 Optional Surface-Mount Backbox.

CB500 Control Module Barrier — required by UL for separating power-limited and non-power limited wiring in the same junction box as CMF-300.

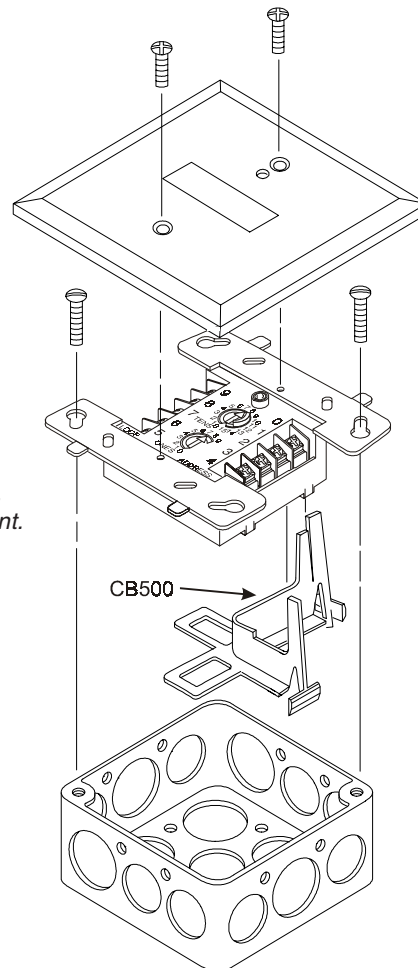
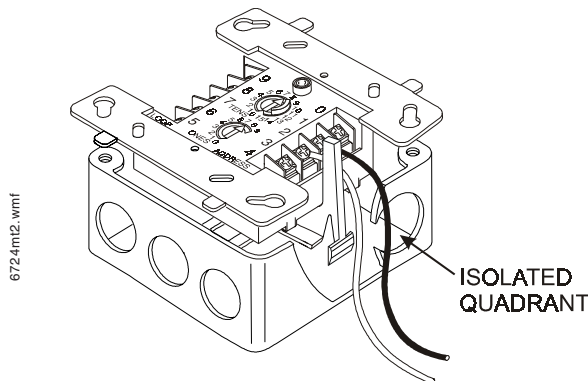
RELAY CONTACT RATINGS for both CMF and CRF models

Load Description	Application	Maximum Voltage	Current Rating
Resistive	Non-Coded	30 VDC	3.0 A
Resistive	Coded	30 VDC	2.0 A
Resistive	Non-Coded	110 VDC	0.9 A
Resistive	Non-Coded	125 VAC	0.9 A
Inductive (L/R = 5 ms)	Coded	30 VDC	0.5 A
Inductive (L/R = 2 ms)	Coded	30 VDC	1.0 A
Inductive (PF = 0.35)	Non-Coded	125 VAC	0.5 A

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MOUNTING DIAGRAMS

Note CB500 Module Barrier, which creates isolated quadrant.



4" (101.6 mm) square x 2.125" (53.975 mm) deep box