FIRE·LITE® ALARMS

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CMF-300-6

Six-Circuit Supervised Control Module

Section: Addressable Devices

GENERAL

Fire-Lite's **CMF-300-6 six-circuit supervised control module** provides MS-9200, MS-9200UD and MS-9600 with supervised monitoring of wiring to load devices that require an external power supply to operate, such as horns, strobes, or bells. Each module is intended for switching applications involving AC, DC, or audio, which require wiring supervision. Upon command from the control panel, the CMF-300-6 will disconnect the supervision and connect the external power supply across the load device.

The first module is addressed from 01 to 154 while the remaining modules are automatically assigned to the next five higher addresses. Provisions are included for disabling a maximum of three unused addresses. Each CMF-300-6 module has terminals for connection to an external supply circuit for powering devices on its notification appliance circuit. One or multiple power supplies or amplifiers may be used.

Each CMF-300-6 module features a short-circuit-protection monitor to protect the external power supply against short-circuit conditions on the NAC. When an alarm condition occurs, the relay which connects the external supply to the NAC will not be allowed to close if a short-circuit condition condition currently exists on the NAC. Additionally, an algorithm is incorporated to find shorts when the module is active. The CMF-300-6 module will close all circuits that are not shorted to find the NAC with the problem.

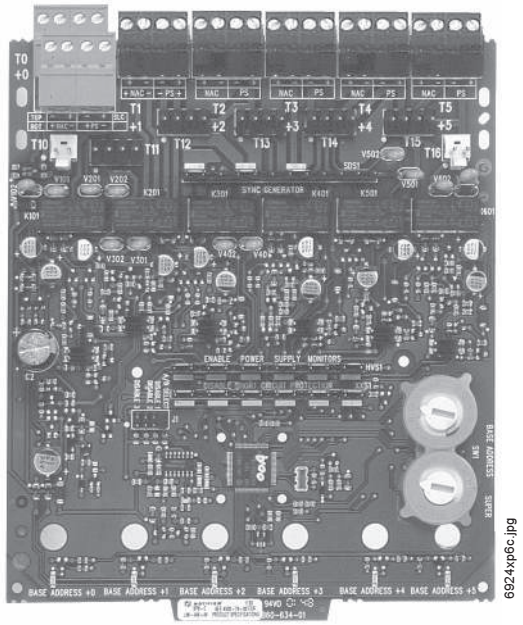
Each CMF-300-6 module has panel-controlled green LED indicators. The panel can cause the LEDs to blink, latch on, or latch off.

LISTED S3705

APPROVED

California State Fire Marshal 7300-0075:205

MEA 55-02-E



FEATURES

- Six addressable Class B or three addressable Class A outputs that function as notification appliance/speaker/telephone circuits.
- Removable 12 AWG (3.25 mm²) to 18 AWG (0.9 mm²) plug-in terminal blocks.
- Status indicators for each point.
- Unused addresses may be disabled.
- Rotary address switches.
- Mount one or two modules in a BB-2F cabinet (optional).
- Mount up to six modules on a CHS-6 chassis in a BB-6F cabinet (optional).
- Mounting hardware included.

SPECIFICATIONS

Standby current: 2.25 mA (SLC current draw with all addresses used; if some addresses are disabled, the standby current decreases).

Alarm current: 35 mA (assumes all six relays have been switched once and all six LEDs solid ON).

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

Humidity: 10% to 85% noncondensing for UL applications.

Dimensions: 6.8" (172.72 mm) high x 5.8" (147.32 mm) wide x 1.25" (31.75 mm) deep.

Shipping weight: 1.1 lb. (0.499 kg) including packaging.

Wire gauge: 12 AWG (3.25 mm²) to 18 AWG (0.9 mm²), grounded.

CMF-300-6 is shipped in Class B position; remove shunt for Class A operation.

Maximum SLC wiring resistance: 40 or 50 ohms, panel dependent.

Maximum NAC wiring resistance: 40 ohms.

Power rating per circuit: 63 W @ 70.7 VAC (UL applications only); 22.5 W @ 25 VAC.

Relay contact ratings: 30 VDC, 110 VAC.

Current ratings:

- 3.0 A @ 30 VDC maximum, resistive, non-coded.
- 2.0 A @ 30 VDC maximum, resistive, coded.
- 1.0 A @ 30 VDC maximum, inductive (L/R = 2 ms), coded.
- 0.5 A @ 30 VDC maximum, inductive (L/R = 5 ms), coded.
- 0.9 A @ 70.7 VAC maximum (UL only), resistive, non-coded.
- 0.7 A @ 70.7 VAC maximum (UL only), inductive (PF = 0.35), non-coded.

PRODUCT LINE INFORMATION

CMF-300-6: Six-circuit supervised control module.

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.

ISO 9001 CERTIFIED ENGINEERING & MANUFACTURING

WIRING DIAGRAMS

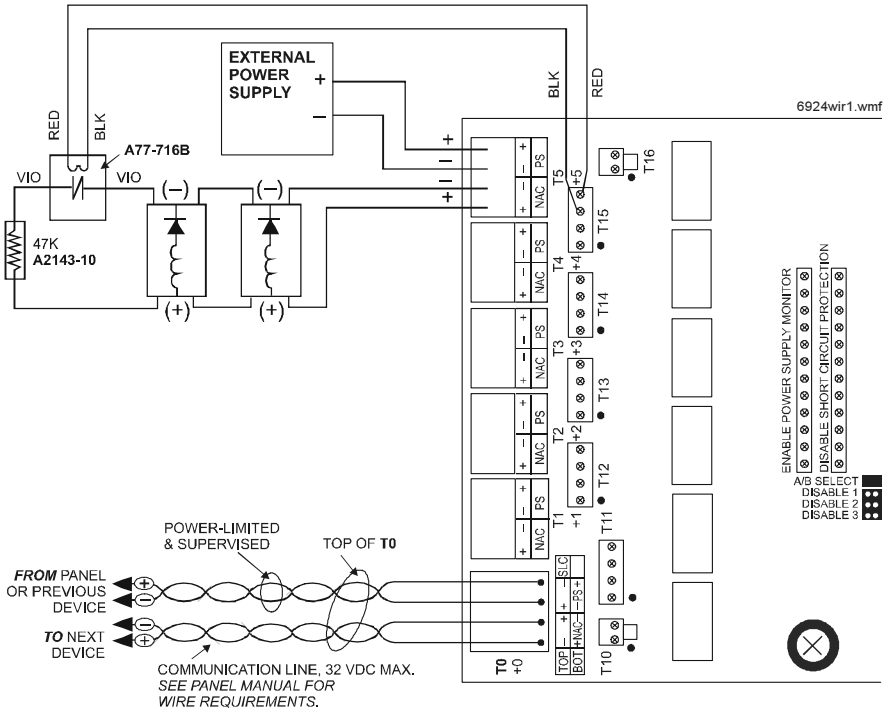


FIGURE 1: Example of Class B, Style Y NAC configuration with a single supply dedicated to a single NAC.

NOTE: *EOL relay coil connections must be made using EOL relay connector assemblies on T10 – T16 in event that all NACs on the PCB have dedicated supplies.*

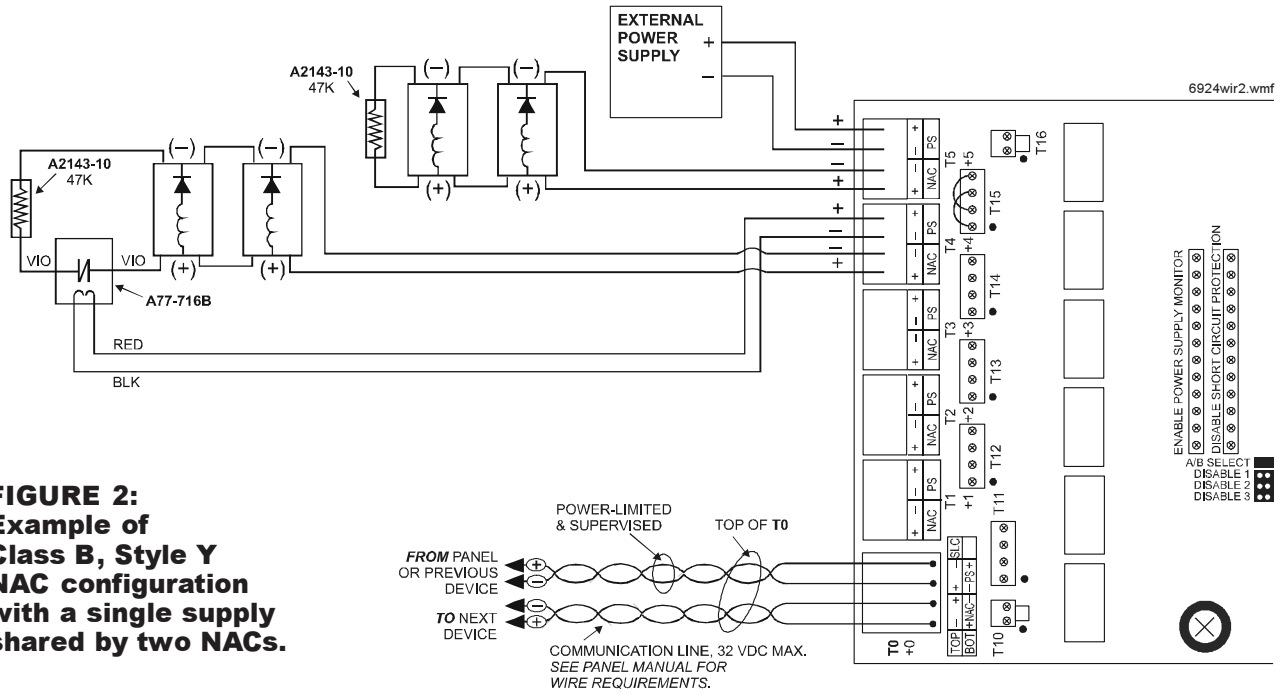
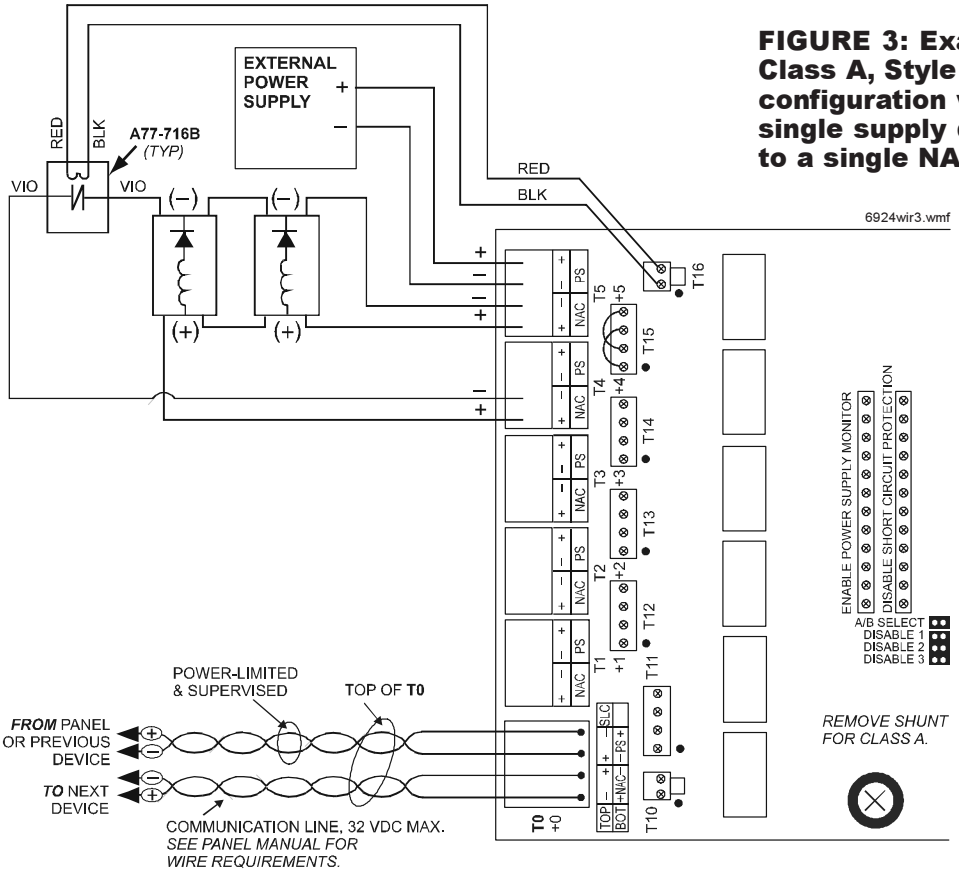


FIGURE 2: Example of Class B, Style Y NAC configuration with a single supply shared by two NACs.

FIGURE 3: Example of Class A, Style Z NAC configuration with a single supply dedicated to a single NAC.



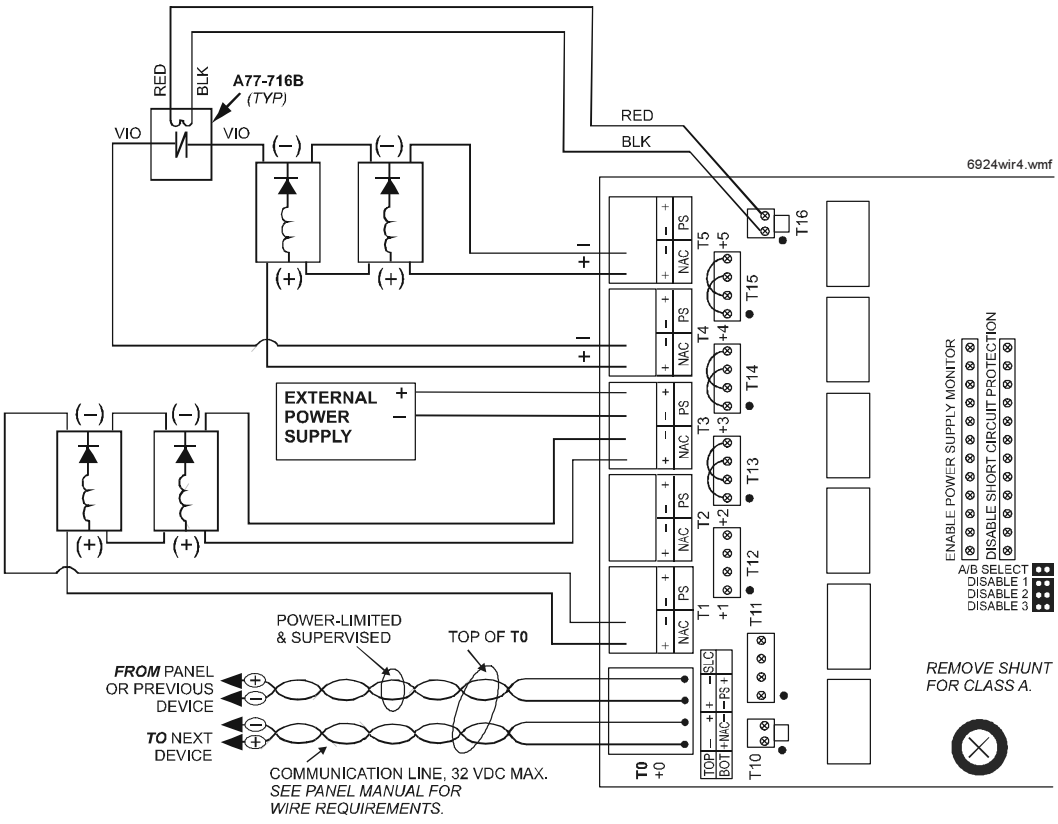


FIGURE 4:
Example of Class A, Style Z audio NAC configuration.