Relay Contact Ratings:

CURRENT RATING	MAXIMUM VOLTAGE	LOAD DESCRIPTION	APPLICATION
3 A	30 VDC	Resistive	Non Coded
2 A	30 VDC	Resistive	Coded
.9 A	110 VDC	Resistive	Non Coded
.9 A	125 VAC	Resistive	Non Coded
.5 A	30 VDC	Inductive (L/R=5ms)	Coded
1 A	30 VDC	Inductive (L/R=2ms)	Coded
.5 A	125 VAC	Inductive (PF=.35)	Non Coded
.7 A	75 VAC	Inductive (PF=.35)	Non Coded

▲WARNING

All relay switch contacts are shipped in the standby state (open) state, but may have transferred to the activated (closed) state during shipping. To ensure that the switch contacts are in their correct state, modules must be made to communicate with the panel before connecting circuits controlled by the module.

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INSTALLATION AND MAINTENANCE INSTRUCTIONS



FCM-1 Supervised Control Module

Northford, CT 06472-1653 (203) 484-7161

Specifications

Normal Operating Voltage: 15 to 32 VDC Maximum Current Draw: 6.5 mA (LED on) 390µA (LED flashing) Average Operating Current:

External Supply Voltage: (between Terminals T3 and T4)

80 Volts (RMS or DC) Maximum:

Drain on External Supply: 2 mA Maximum (using internal EOL relay)

Temperature Range: 32°F to 120°F (0°C to 49°C) Humidity: 10% to 93% Noncondensing

 $4^{1}/2$ " H x 4" W x $1^{1}/4$ " D (Mounts to a 4" square by $2^{1}/8$ " deep box.) Dimensions:

Accessories: SMB500 Electrical Box; CB500 Barrier

Before Installing

This information is included as a quick reference installation guide. Refer to the control panel installation manual for detailed system information. If the modules will be installed in an existing operational system, inform the operator and local authority that the system will be temporarily out of service. Disconnect power 3. Secure module to electrical box (supplied by installer), as to the control panel before installing the modules.

NOTICE: This manual should be left with the owner/user of this equipment.

General Description

FCM-1 Supervised Control Modules are intended for use in intelligent, two-wire systems, where the individual address of each module is selected using the built-in rotary switches. This module is used to switch an external power supply, which can be a DC power supply or an audio amplifier (up to 80 VRMS), to notification appliances. It also supervises the wiring to the connected loads and reports their status to the panel as NORMAL, OPEN, or SHORT CIRCUIT. The FCM-1 has two pairs of output termination points available for fault-tolerant wiring and a panel-controlled LED indicator. This module can be used to replace a CMX-2 module that has been configured for supervised wiring operation.

Compatibility Requirements

To ensure proper operation, this module shall be connected to a compatible Notifier system control panels only (list available from Notifier).

Mounting

The FCM-1 mounts directly to 4 square electrical boxes (see Figure 2A). The box must have a minimum depth of $2^{1}/8$. Surface mounted electrical boxes (SMB500) are available.

Wiring

NOTE: All wiring must conform to applicable local codes, ordinances, and regulations. When using control modules in nonpower limited applications, the CB500 Module Barrier must be used to meet UL requirements for the separation of power-limited and nonpower-limited terminals and wiring. The barrier must be inserted into a 4 $x4 ext{ } x2^{1}/8$ junction box, and the control module must be placed into the barrier and attached to the junction box (Figure 2A). The power-limited wiring must be placed into the isolated quadrant of the module barrier (Figure

1. Install module wiring in accordance with the job drawings and appropriate wiring diagrams.

- 2. Set the address on the module per job drawings.
- Note: Some panels support extended addressing. In order to set the module above address 99 on compatible systems, carefully remove the stop on the upper rotary switch with thumb in the direction shown in Figure 1A.
- shown in Figure 2A.

IMPORTANT: When using the FCM-1 for fire fighter telephone applications, remove Jumper (J1) and discard. The Jumper is located on the back under the product label as shown in Figure

Figure 1A. Removing rotary switch stop:

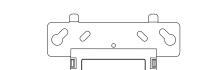
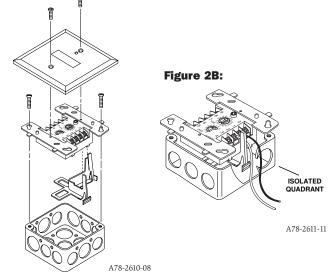


Figure 1B. Jumper location:

BACK OF A78-2318-07 J1 UNDER LABEL

Figure 2A. Module mounting with barrier:



N500-46-00 I56-1169-07

Figure 3. Typical notification appliance circuit configuration, NFPA Style Y:

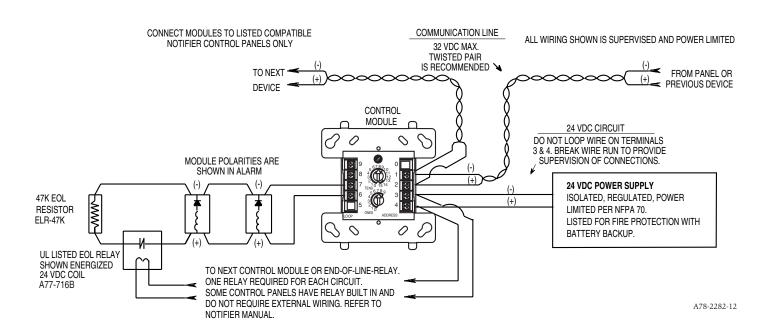
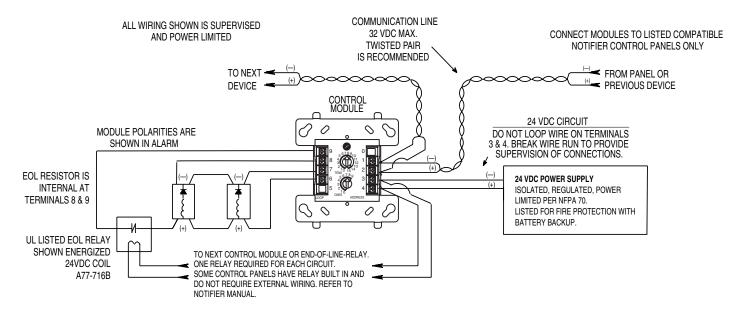
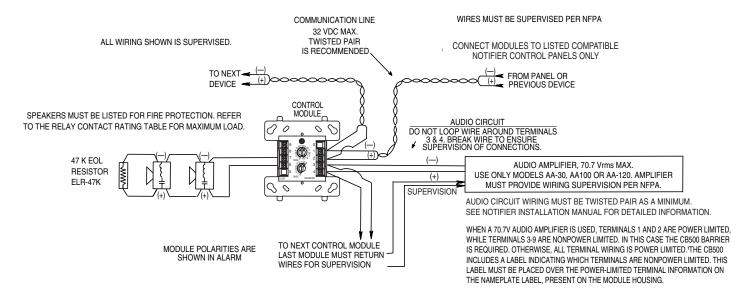


Figure 4. Typical fault tolerant notification appliance circuit configuration, NFPA Style Z:



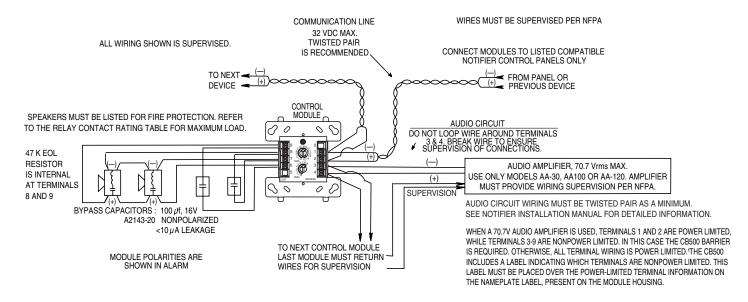
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Figure 5. Typical wiring for speaker supervision and switching, NFPA Style Y:



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Figure 6. Typical fault tolerant wiring for speaker supervision and switching, NFPA Style Z:



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N500-46-00 2 I56-1169-07 N500-46-00 3 I56-1169-07