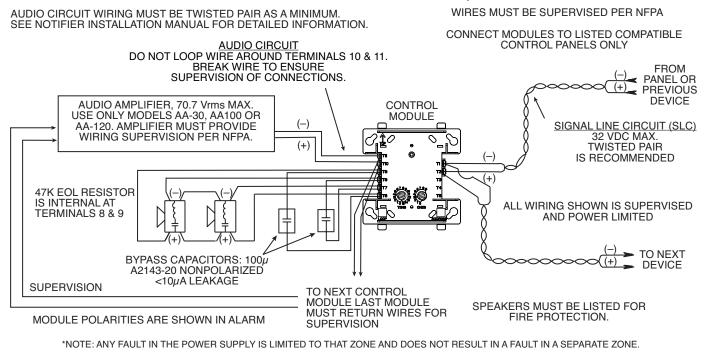
FIGURE 6. TYPICAL FAULT TOLERANT WIRING FOR SPEAKER SUPERVISION AND SWITCHING, NFPA STYLE Z:



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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.

INSTALLATION AND MAINTENANCE INSTRUCTIONS

FCM-1 Supervised Control Module

SPECIFICATIONS Normal

Normal Operating Voltage:	15 to 32 VDC		
Maximum Current Draw:	6.5 mA (LED on)		
Average Operating Current:	375µA (LED flashing - in group poll mode		
Maximum NAC Line Loss:	4 VDC		
External Supply Voltage (between Terminals T10 and T11)			
Maximum (NAC):	Regulated 24 VDC		
Maximum (Speakers):	70.7 V RMS, 50 W		
Drain on External Supply:	1.7 mA Maximum using 24 VDC supply; 2		
Max NAC Current Ratings:	For class B wiring system, the current rati		
Temperature Range:	32°F to 120°F (0°C to 49°C)		
Humidity:	10% to 93% Non-condensing		
Dimensions:	4.675" H x 4.275" W x 1.4" D (Mounts to		
Accessories:	SMB500 Electrical Box; CB500 Barrier		

RELAY CONTACT RATINGS:

CURRENT RATING	MAXIMUM VOLTAGE	LOAD DESCRIPTION	APPLICATION	
2 A	25 VAC	PF = 0.35	Non-coded	
3 A	30 VDC	Resistive	Non-coded	
2 A	30 VDC	Resistive	Coded	
0.46 A	30 VDC	(L/R = 20ms)	Non-coded	
0.7 A	70.7 VAC	PF = 0.35	Non-coded	
0.9 A	125 VDC	Resistive	Non-coded	
0.5 A	125 VAC	PF = 0.75	Non-coded	
0.3 A	125 VAC	PF = 0.35	Non-coded	

BEFORE INSTALLING

This information is included as a quick reference installation guide. Ref the control panel installation manual for detailed system information. modules will be installed in an existing operational system, inform the op tor and local authority that the system will be temporarily out of service. connect power to the control panel before installing the modules.

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

GENERAL DESCRIPTION

FCM-1 Supervised Control Modules are intended for use in intelligent, wire systems, where the individual address of each module is selected ing the built-in rotary switches. This module is used to switch an exter 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

IMPORTANT: When using the FCM-1 for audio applications, remove Jumper To ensure proper operation, this module shall be connected to a compatible (J1) and discard. The Jumper is located on the back as shown in Figure 1B. Notifier system control panels only (list available from Notifier).

MOUNTING

The FCM-1 mounts directly to 4-inch square electrical boxes (see Figure 2A). The box must have a minimum depth of 2¹/8 inches. Surface mounted electrical boxes (SMB500) are available. The module can also mount to the DNR(W) duct housing.

NOTIFIER[®] by Honeywell

le) 350µA (LED flashing - in direct poll mode); 485µA Max. (LED flashing, NAC shorted)

2.2 mA Maximum using 80 VRMS supply ting is 3A; For class A wiring system, the current rating is 2A

a 4" square by 2¹/8" deep box.)

	WIRING
efer to	NOTE: All wiring must conform to applicable local codes, ordinances, and reg-
If the	ulations. When using control modules in nonpower limited applications, the
opera-	CB500 Module Barrier must be used to meet UL requirements for the separa-
e. Dis-	tion of power-limited and nonpower-limited terminals and wiring. The barrier
	must be inserted into a $4'' \times 4'' \times 2^1/s''$ junction box, and the control module
nent.	must be placed into the barrier and attached to the junction box (Figure 2A).
iiciit.	The power-limited wiring must be placed into the isolated quadrant of the
	module barrier (Figure 2B).
, two-	1. Install module wiring in accordance with the job drawings and appropri-

us-	1.	Install module wiring in accordance with the job drawings and appropri-
ernal		ate wiring diagrams.
linui		

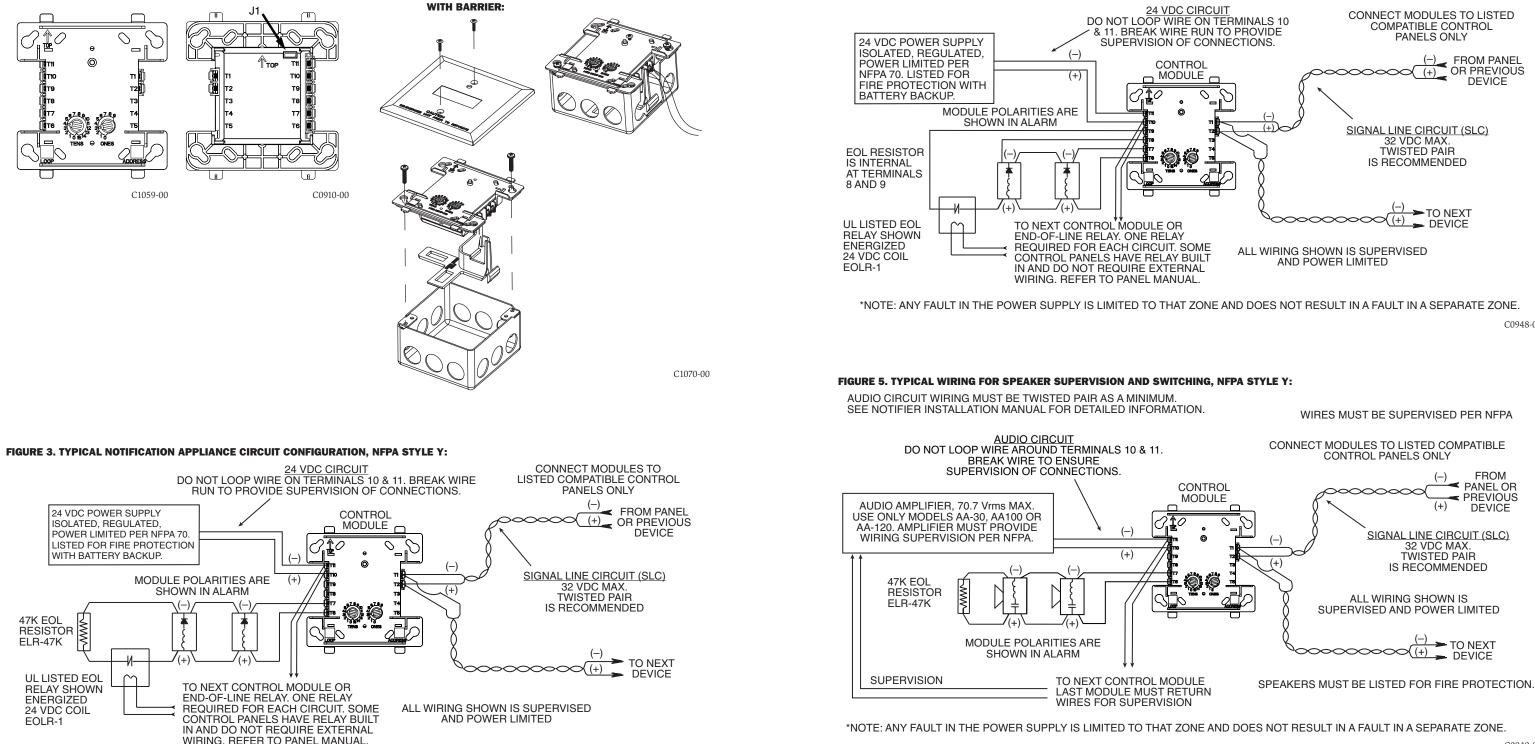
- 2. Set the address on the module per job drawings.
- 3. Secure module to electrical box (supplied by installer), see Figure 2A.

Wire should be stripped to the appropriate length (recommended strip length is 1/4 "to 3/8"). Exposed conductor should be secured under the clamping plate and should not protrude beyond the terminal block area.

CAUTION: Do not loop wire under terminals. Break wire run to provide supervision of connections.

J1 must be removed whenever power supply monitoring feature is not required.

- NOTE: All references to power limited represent "Power Limited (Class 2)". All references to Class A also include Class X.
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*NOTE: ANY FAULT IN THE POWER SUPPLY IS LIMITED TO THAT ZONE AND DOES NOT RESULT IN A FAULT IN A SEPARATE ZONE.

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FIGURE 1A:

FIGURE 1B. JUMPER LOCATION:

FIGURE 2A. MODULE MOUNTING

FIGURE 2B:

FIGURE 4. TYPICAL FAULT TOLERANT NOTIFICATION APPLIANCE CIRCUIT CONFIGURATION, NFPA STYLE Z:

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