NOTIFIER MMX-1-A Monitor Module Instruction Manual

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NOTIFIER MMX-1-A Monitor Module

This information is included as a quick reference installation guide. Refer to the appropriate Notifier 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 to the control panel before installing the modules.
NOTICE: This manual should be left with the owner/user of this equipment.

GENERAL DESCRIPTION

- **MMX-1(A) MONITOR MODULES** provide a two-wire, or four-wire fault-tolerant, initiating circuit for normally open contact fire alarm and supervisory devices, or either normally open or normally closed security devices. The LED indicator can be latched on or returned to the normal mode by code command from the panel. Rotary decade switches are used to set the address of each module.
- **CMX-2(A) CONTROL MODULES** allow a compatible control panel to switch discrete contacts by code command. The control module offers a status LED that can be latched on or returned to the normal mode by code command from the panel. Rotary decade switches are used to set the address of each module.
  The control module offers two modes of switching operation. As shipped, the module is configured for switching an external power source to notification appliances. The external power source can be a DC power supply or an audio amplifier (up to 70.7 Vrms). In this mode, the mod-ule reports supervision status of the connected loads to the control panel. Load circuit status is reported as a NORMAL, OPEN, or SHORTED circuit. Two pairs of output termination points are available for fault-tolerant wiring. The second mode of switching operation allows the panel to control one Form-C set of contacts. Circuit connections to the contacts are not super-vised by the module. This mode is enabled by breaking two external tabs on the module.
- **ISO-X FAULT ISOLATOR MODULES** enable part of the communications loop to continue operating when a short circuit oc-curs on it. An LED indicator blinks in the normal condition and turns on during a short circuit condition. The module will auto-matically restore the entire communications loop to the normal condition when

the short circuit is removed.

- **COMPATIBILITY REQUIREMENTS**

  To insure proper operation, these modules shall be connected to compatible Notifier system control panels only.

- **MOUNTING MMX-1(A), CMX-2(A), AND ISO-X DEVICES**

  MMX-1(A), CMX-2(A), and ISO-X modules mount directly to 4 inch square electrical boxes as shown in Figure 2A. The box must have a minimum depth of 21/8″.

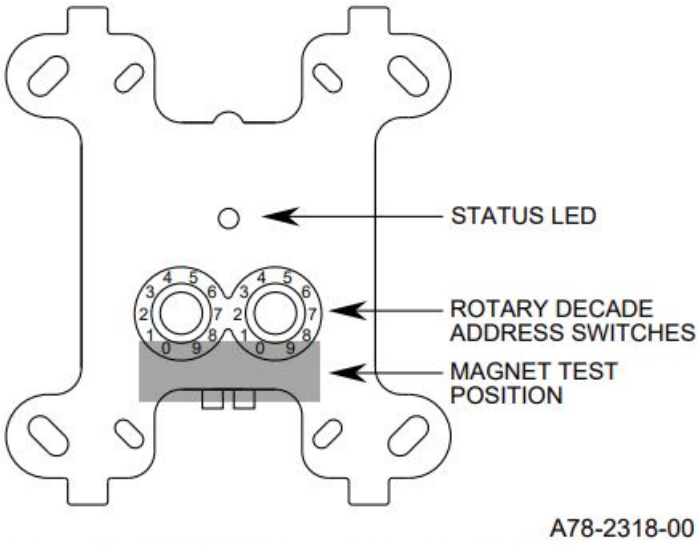

Figure 1. Montior and Control Module Controls and Indicators

WIRING

NOTE: All wiring must conform to applicable local codes, ordinances and regulations. When using control modules in nonpower limited applica-tions, the CB500 Module Barrier must be used to meet UL require-ments for the separation of power-limited and nonpower-limited termi-nals and wiring. The barrier must be inserted in a 4″x4″x21 /8″ junction box, and the control module must be placed into the barrier and at-tached to the junction box (Figure 2A). The power-limited wiring must be placed into the isolated quadrant of the module barrier (Figure 2B).

1. Install module wiring in accordance with the job drawings and appropriate wiring diagrams (Figures 3 – 10).
2. Set the address on the module per job drawings.
3. Secure module to electrical box (supplied by installer), as shown in Figure 2A.

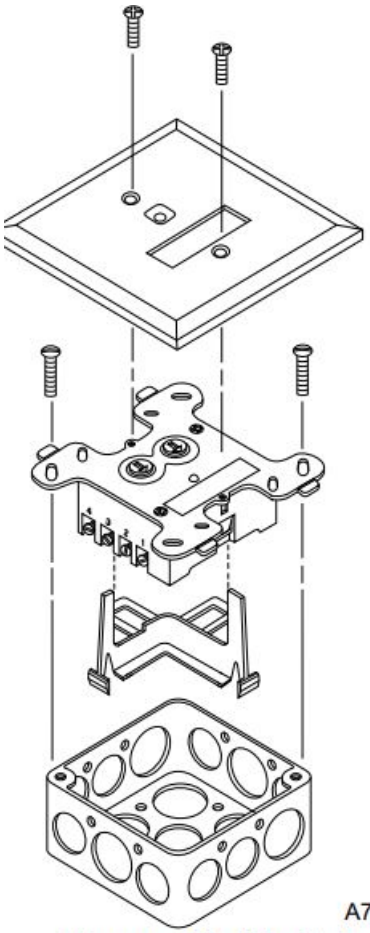

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Figure 2A. Module Mounting with Barrier

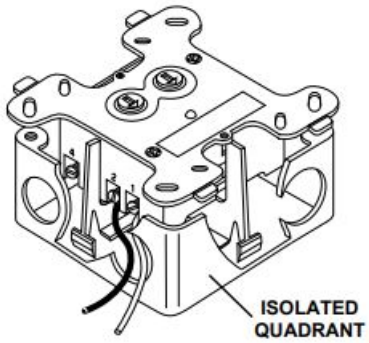

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Figure 2B.

MAGNET TEST

The monitor and control modules can be tested with a test magnet available from Notifier (M02-04-00, see Figure 1). The magnet test checks the module electronics and connections to the control panel. Interfaced initiating and indi-cating devices must be tested independently.

MMX-1(A) MONITOR MODULE WIRING DIAGRAMS

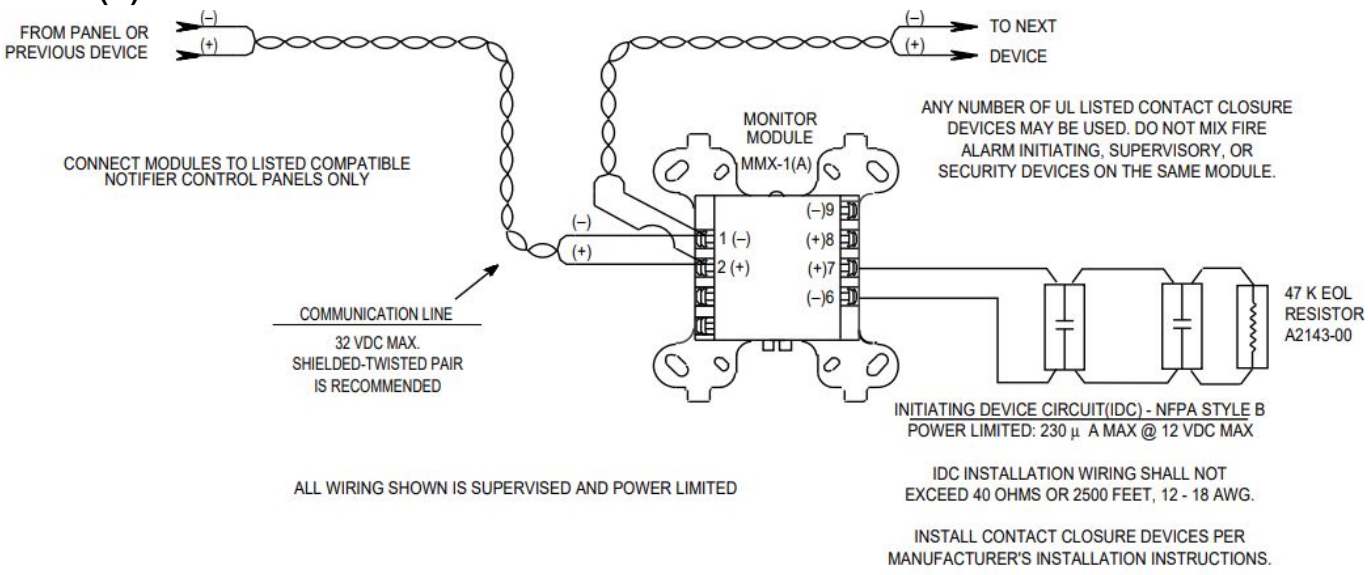


FIGURE 3. TYPICAL 2-WIRE INITIATING CIRCUIT CONFIGURATION, NFPA STYLE B

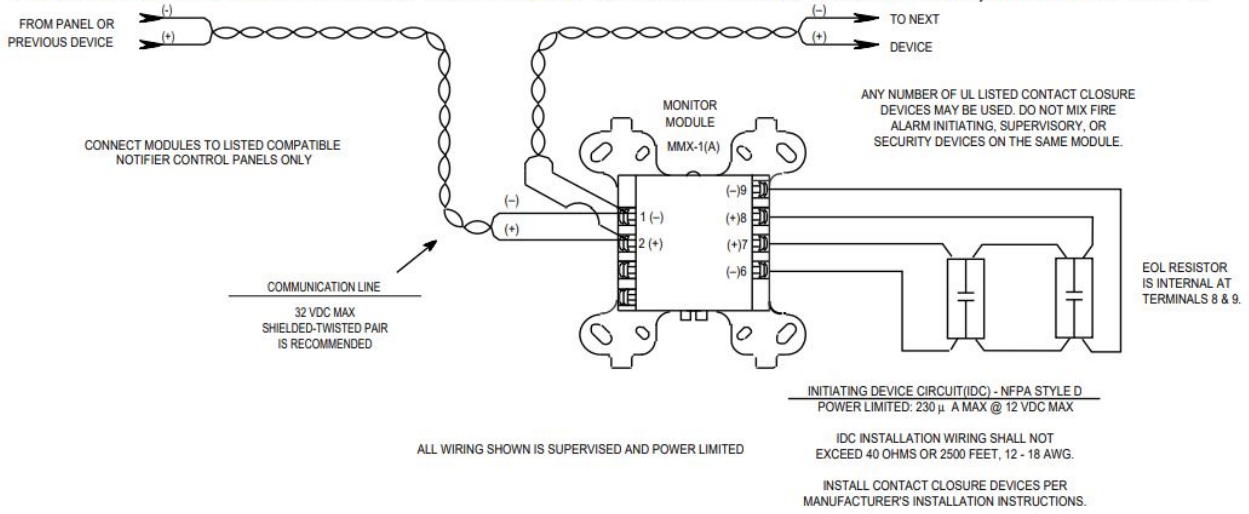


FIGURE 4. TYPICAL 4-WIRE FAULT TOLERANT INITIATING CIRCUIT CONFIGURATION, NFPA STYLE D

CMX-2(A) CONTROL MODULE WIRING DIAGRAMS

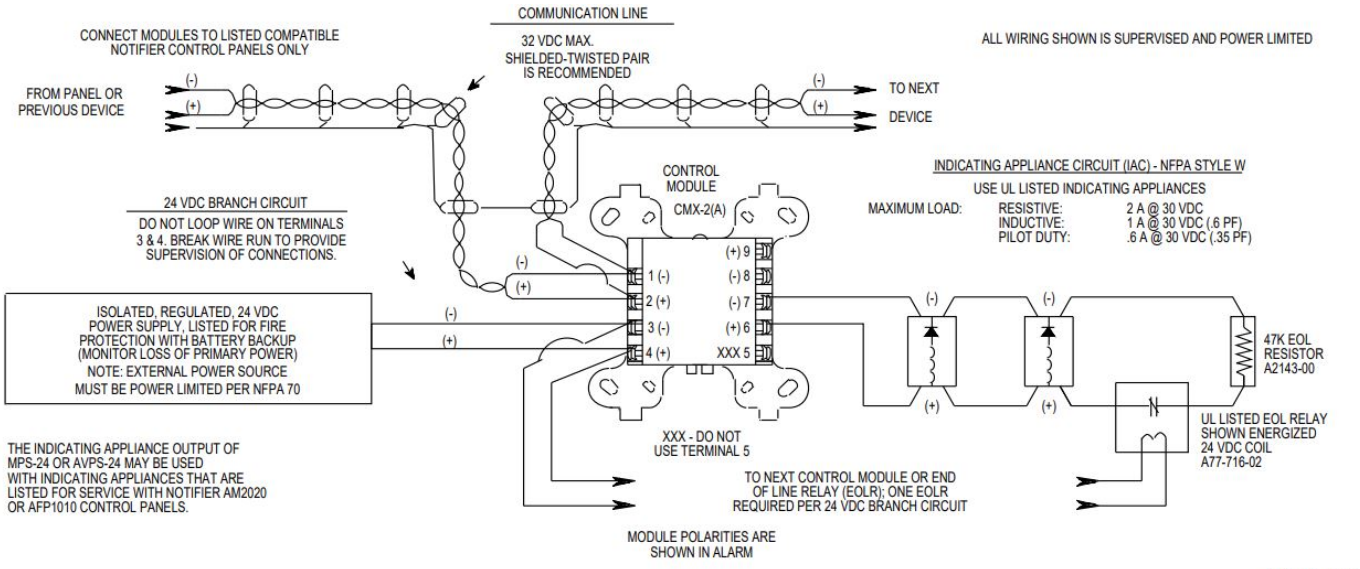
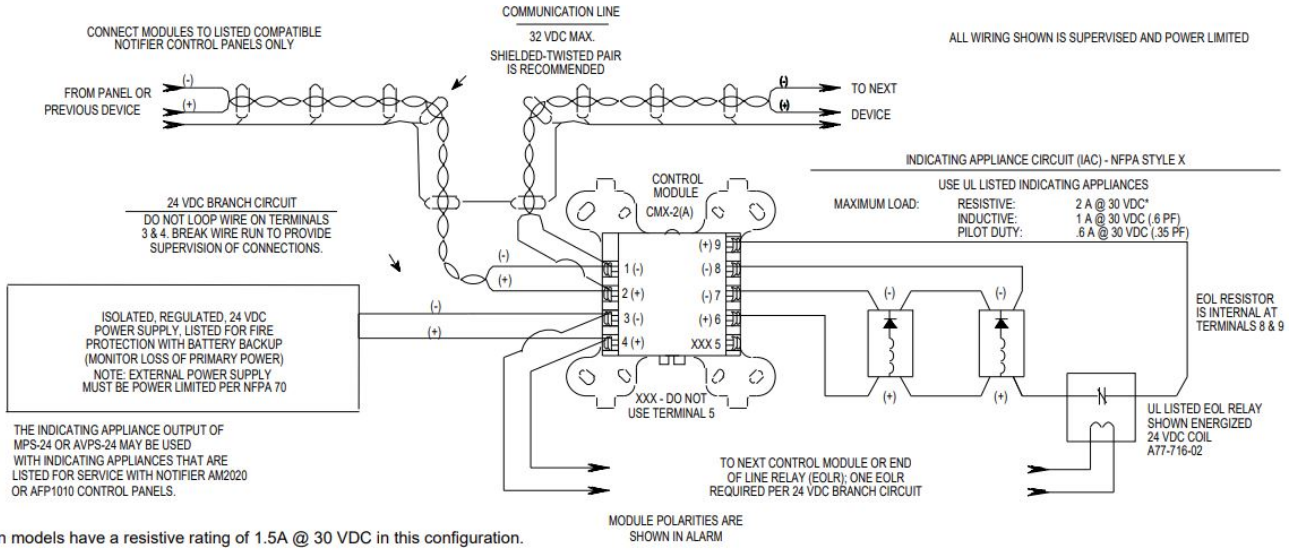


FIGURE 5. TYPICAL INDICATING CIRCUIT CONFIGURATION, NFPA STYLE W



*Canadian models have a resistive rating of 1.5A @ 30 VDC in this configuration.

FIGURE 6. TYPICAL FAULT TOLERANT INDICATING CIRCUIT CONFIGURATION, NFPA STYLE X

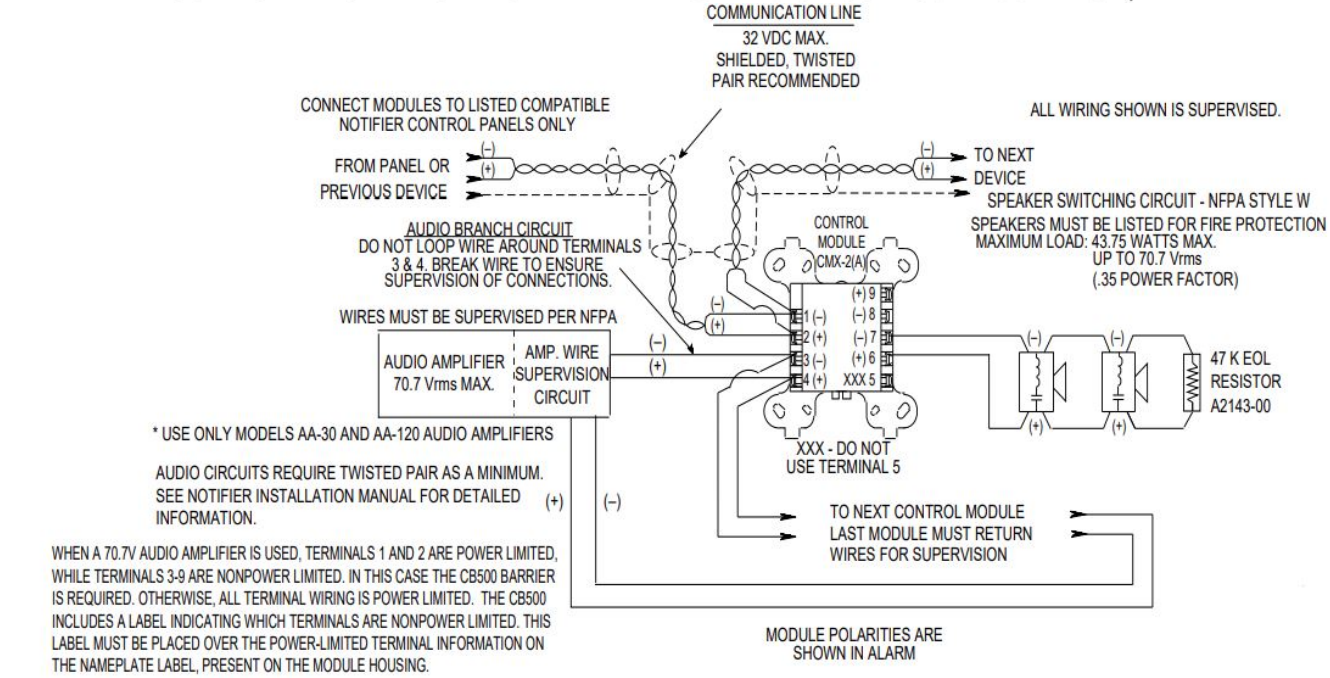


FIGURE 7. TYPICAL WIRING FOR SPEAKER SUPERVISION AND SWITCHING, NFPA STYLE W

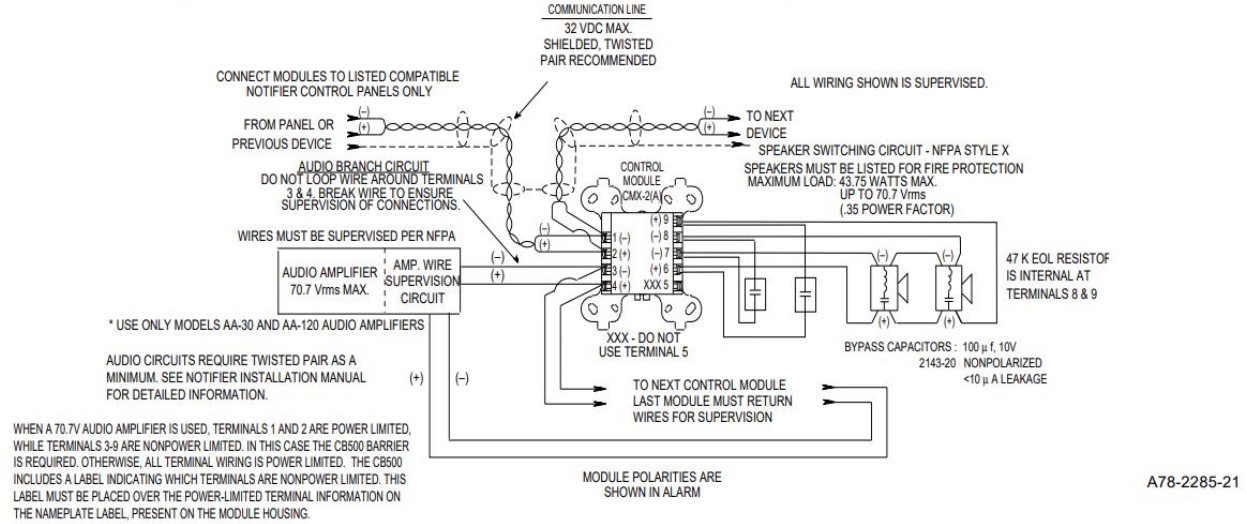


FIGURE 8. TYPICAL FAULT TOLERANT WIRING FOR SPEAKER SUPERVISION AND SWITCHING, NFPA STYLE X

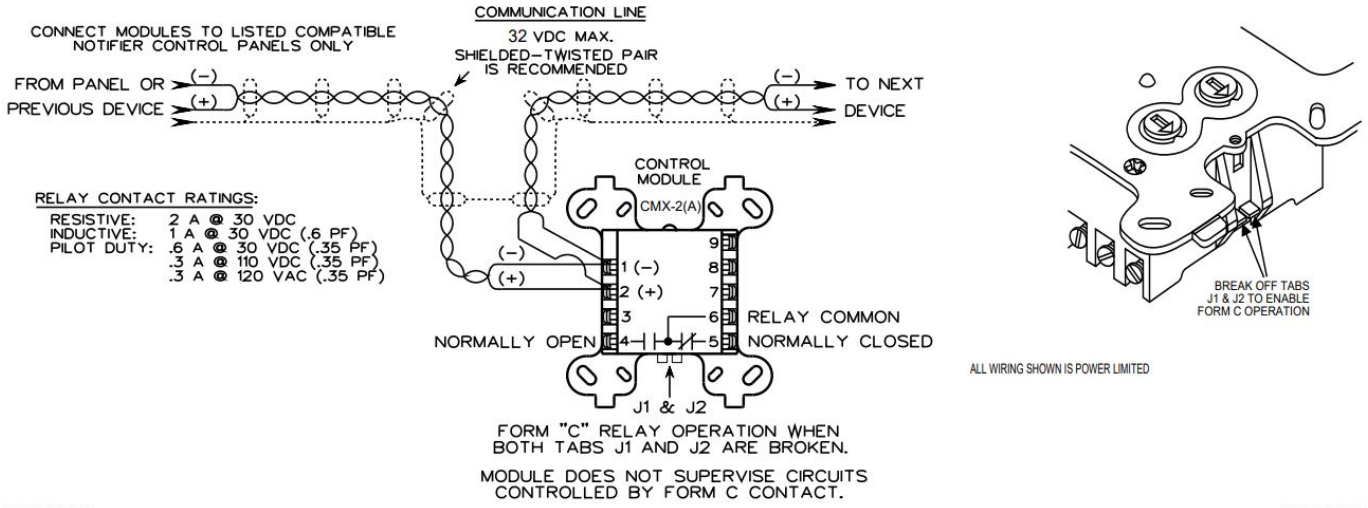


FIGURE 9. CONTROL MODULE IN RELAY OUTPUT MODE

WARNING

Control Module switch contacts are shipped in the standby state (open). Contacts may have transferred to the activated state (closed) during shipping.
The module utilizes a mechanical latching-type relay that can change states due to shock or jarring. The control panel controls this relay with “STANDBY” and “ALARM” control commands. To insure that the switch contacts are in the standby state, control modules must be made to communicate with the panel before connecting circuits controlled by the module.

ISO-X FAULT ISOLATOR MODULE WIRING DIAGRAM

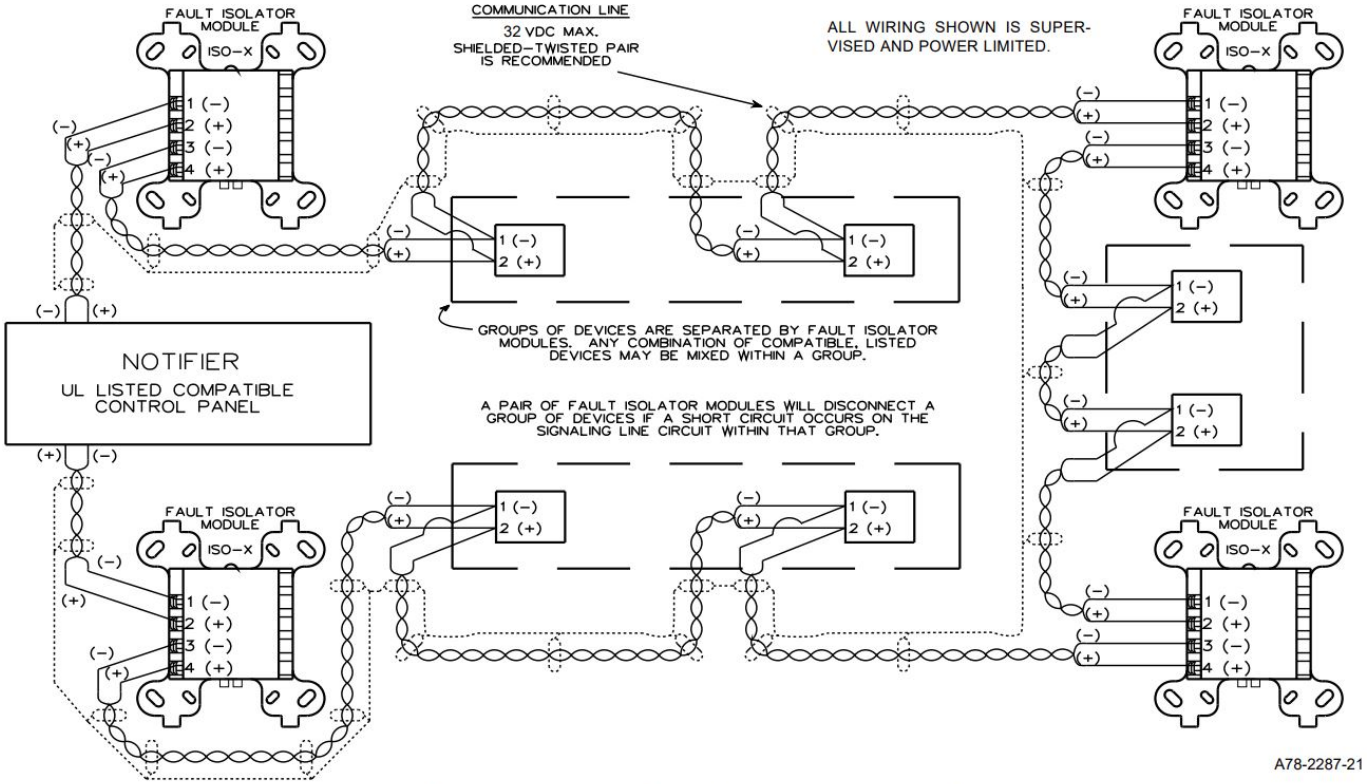


FIGURE 10. FAULT ISOLATOR MODULE WIRING

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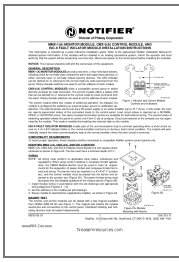
Documents / Resources

	NOTIFIER MMX-1-A Monitor Module [pdf] Instruction Manual MMX-1-A Monitor Module, MMX-1-A, Monitor Module, Module

References

- Fire Alarm Resources | Download fire alarm documents

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