



MGC MIX-4070-M Multi Isolator Module Instruction Manual

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MGC MIX-4070-M Multi Isolator Module



Product Information

The MIX-4070-M multi-isolator module is a device that provides 8 isolator sections, each being electrically isolated from the others. It is designed to enable the SLC (signalling line circuit) communication loop to continue operating when a short circuit occurs on one section of the loop. All circuits are power limited and supervised. The MIX-4070-M is compatible with FX-400, FX-401 and Flex-Net™ FX4000 fire alarm control panels and is designed to meet UL 864, 10th Edition and ULC S527, 4th Edition requirements for devices. Each isolator section can isolate an SLC that has a maximum load of 0.4 A and a minimum load of 0.0 A. The maximum resistance that will switch the isolator from closed to open is 10

Product Usage Instructions

1. Before installing the MIX-4070-M multi-isolator module, seek guidance from the compatible control panel instructions for the device's operation modes and configuration requirements.
2. It is recommended to disconnect the SLC line before performing installation or service.
3. Hook the multi module device onto the bottom of the DIN rail with three teeth.
4. Push the mounting clip upward with a flat screwdriver.
5. Push the multi module device onto the DIN rail and release the clip.
6. All connections to field wiring are done with plug-in terminal blocks.
7. Use the information in the manual to determine the total current draw of the devices. In all cases, the installer should consider the voltage drop to ensure that the last device on the circuit operates within its rated voltage.
8. Please consult the FACP documentation for more information.

ABOUT THIS MANUAL

This manual is included as a quick reference for installation. For further information on the use of this device with a FACP, please refer to the panel's manual.

Note: This manual should be left with the owner or operator of this equipment.

DESCRIPTION

- The MIX-4070-M multi-isolator module provides 8 isolator sections, each being electrically isolated from the

others. The MIX-4070-M enables the SLC (signalling line circuit) communication loop to continue operating when a short circuit occurs on one section of the loop. All circuits are power limited and supervised.

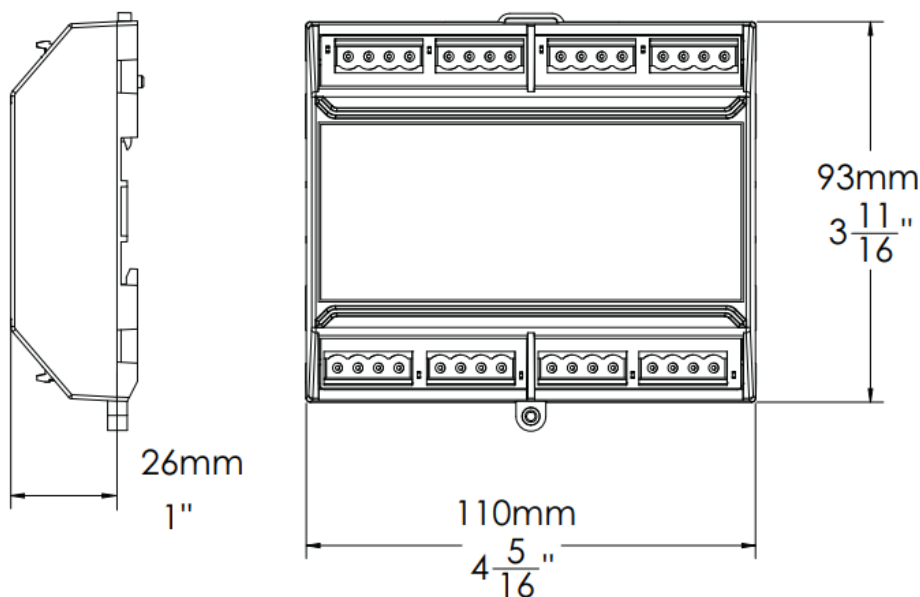
- The MIX-4070-M is compatible with FX-400, FX-401 and Flex-Net™ FX-4000 fire alarm control panels and is designed to meet UL 864, 10th Edition and ULC S527, 4th Edition requirements for devices.
- On each section in use, an LED indicator blinks to indicate a normal condition and turns on solid during a short circuit condition. Each section will automatically restore the protected communication loop section to the normal condition when the short circuit is removed. The module is a hardware only device that does not require an address. There are no limits on the number of MIX-4070-M units installed on the SLC as long as total loop current limit is respected. This is a low current device. Any unused section can be left unconnected without affecting other sections. All connections to the MIX-4070-M are done through plug-in terminal blocks.
- Each isolator section can isolate an SLC that has a maximum load of 0.4 A and a minimum load of 0.0 A. The maximum resistance that will switch the isolator from closed to open is 10 Ω.

Accessories

- **BB-4002R:** Back Box and Red Door for 1 or 2 MIX-4000-M Series Modules
- **BB-4006R:** Back Box and Red Door for up to 6 MIX-4000-M Series Modules

DIMENSION

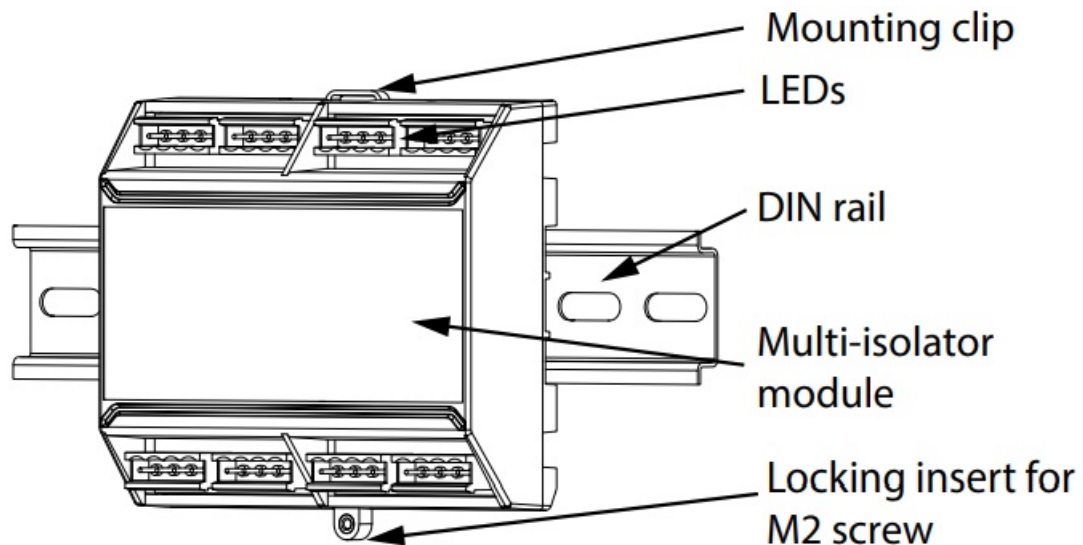
FIGURE 1: MODEL FRONT AND SIDE VIEW



SPECIFICATIONS

- **Normal Operating Voltage:** UL tested 15 to 29VDC UL rated 17.64 to 26.4 VDC
- **Activation Current:** 9.5 mA per activated section
- **Standby Current:** 0.56 mA per used section
- **Temperature Range:** 0°C to 49°C (32°F to 120°F)
- **Humidity Range:** 10% to 93% non-condensing
- **Dimensions:** 110 mm x 93mm (4 5/16 x 3 11/16 in)
- **Terminal wire gauge** 12-22 AWG

KEY COMPONENTS



The MIX-4070-M multi-isolator module as shown in figure 2 is designed to fit on a DIN rail. The M2 screw can be used to lock its position.

Note: This device must be installed as per applicable requirements of the authorities having jurisdiction.

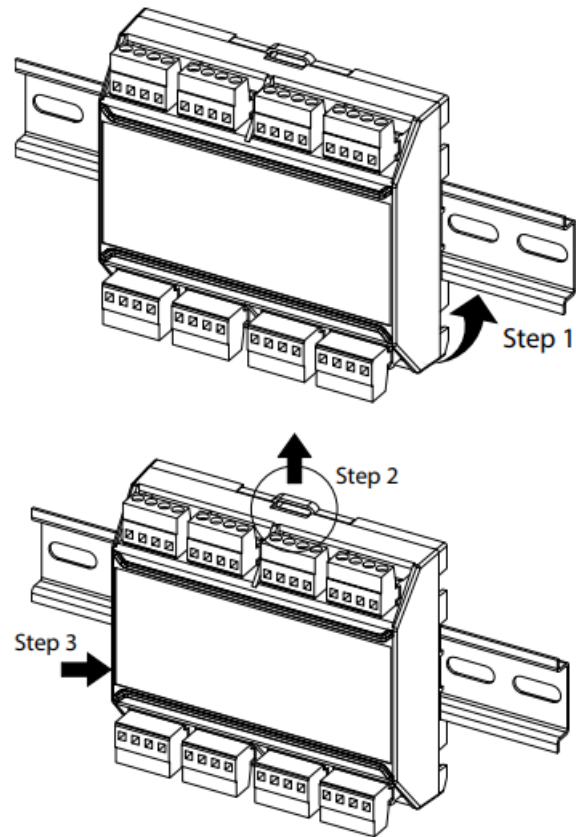
MOUNTING

Units in the multi module series can be mounted on a top-hat style 35mm wide DIN rail included in the MGC listed enclosures:

- BB-4002R for 1 or 2 modules (see document LT-6736) or equivalent Listed enclosure of the same size or larger (see document LT-6749)
- BB-4006R for up to 6 modules (see document LT-6736) or equivalent Listed enclosure of the same size or larger (see document LT-6749)

1. Hook the multi module device onto the bottom of the DIN rail with three teeth.
2. Push the mounting clip upward with a flat screwdriver.
3. Push the multi module device onto the DIN rail and release the clip.

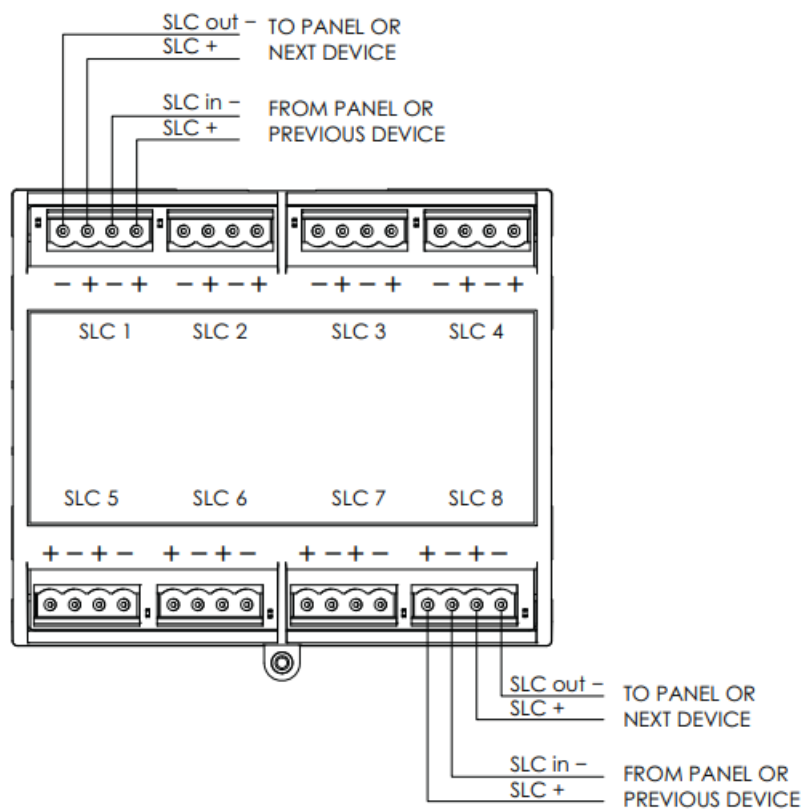
FIGURE 3: MOUNTING DIAGRAM



WIRING

Before installing this device, seek guidance from the compatible control panel instructions for the device's operation modes and the configuration requirements. It is recommended to disconnect the SLC line before performing installation or service.

FIGURE 4: DEVICE CONNECTION – TYPICAL ISOLATOR WIRING FOR TWO CIRCUITS




All connections to field wiring are done with plug-in terminal blocks.
Use the information in this document to determine the total current draw of the devices. In all cases, the installer should consider the voltage drop to ensure that the last device on the circuit operates within its rated voltage.
Please consult the FACP documentation for more information.

RELATED DOCUMENTS

- LT-6736 BB-4002R and BB-4006R Installation Instructions
- LT-6749 MGC-4000-BR DIN Rail Kit Installation Instructions

Documents / Resources

	<p>MGC MIX-4070-M Multi Isolator Module [pdf] Instruction Manual MIX-4070-M, MIX-4070-M Multi Isolator Module, MIX-4070-M Isolator Module, Multi Isolator Mo dule, Isolator Module, Module</p>
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References

-  [Mircom - Smart Buildings. Smarter Solutions.](#)