INSTALLATION AND MAINTENANCE INSTRUCTIONS

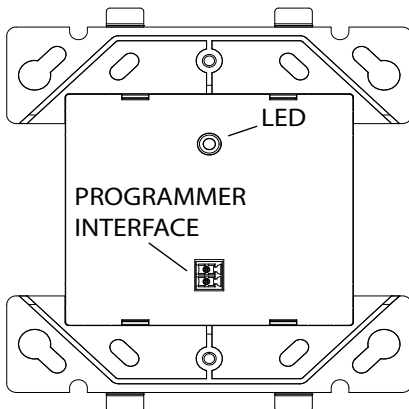# MIX-4045 DUAL RELAY MODULE

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/operator of this equipment.

MODULE DESCRIPTION

The MIX-4045 Dual Relay module is designed to operate with a listed compatible intelligent fire system control panel. The module can control two independent circuits while using only one module address. The module provides two form C (SPDT) contacts rated at 2A @ 30VDC or 0.5A at 125VAC and a compatible panel can switch discrete contacts by code command. Circuit connections to the relay contacts are not supervised by the module. The contact position is verified by the module at all times. If a contact is not at the required position during standby or active conditions, a trouble will be reported by the panel. The module supports group activation capability for fast reaction time. The SLC and non-power limited connections are on opposite side of the device for easy installation (no need to install an additional barrier). The address of each module is set using the MIX-4090 programmer tool and up to 240 units may be installed on a single loop. The module has a panel controlled LED indicator.

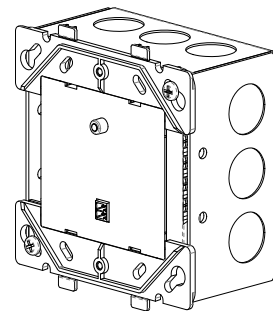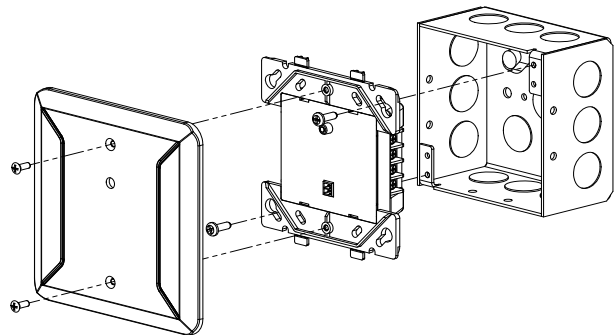**FIGURE 1:   MODULE FRONT**

SPECIFICATIONS

Normal Operating Voltage:	15 to 30VDC
Alarm Current:	3.1mA
Standby Current:	1.5 mA
Temperature Range:	32°F to 120°F (0°C to 49°C)
Humidity:	10% to 93% Non-condensing
Dimensions:	4 5/8" H x 4 1/4" W x 1 1/8" D
Mounting:	4" square by 2 1/8" deep box or double-gang box
Accessories:	MIX-4090 Programmer BB-400 surface mounted backbox
Wiring range on all terminals:	22 to 12 AWG

MOUNTING

Notice: You must disconnect power from the system before installing the module. If this unit is being installed in a system that is currently operational, it is necessary to inform the operator and the local authority that the system will be temporarily out of service.

The MIX-4045 module is intended to be mounted in a standard 4" square back-box (see figure 2) or a double-gang electrical box. The box must have a minimum depth of 2 1/8 inches. Surface mounted electrical boxes (BB-400) are available.

FIGURE 2:   MODULE MOUNTING

WIRING

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

1. Use the programmer tool to set the address on the module as indicated on the job drawings.
    CAUTION: To set the address on this device, disconnect it from the loop, or ensure that the loop to which it is connected is both disconnected from the panel and shorted across the SLC+ and SLC− inputs at the device. Failing to take either of these steps may change the address programming of previously configured sensors on the same loop.
2. Install the module wiring as indicated by the job drawings and appropriate wiring diagrams (see figure 3 for an example of wiring for two connected devices).
3. Mount the module in the electrical box as shown in figure 2.

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FIGURE 3:   SAMPLE RELAY WIRING

TO PANEL OR
NEXT DEVICE

FROM PANEL OR
PREVIOUS DEVICE

SLC$_{out-}$
SLC$_{out+}$
SLC$_{in-}$
SLC$_{in+}$

SLC-
SLC+
SLC-
SLC+

NO 2
C 2
NC 2
NC 1
C 1
NO 1

2A Max Load
@ 30V DC

Normally Open 2
Common 2

24 V DC
Supply

Load connected
on alarm

2A Max Load
@ 30V DC

Normally Closed 1
Common 1

24 V DC
Supply

Load disconnected
on alarm

Contact position shown for
normal standby condition