Notifier FCM-1REL

Notifier FCM-1REL Addressable Releasing Control Module User Manual

Model: FCM-1REL

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1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Notifier FCM-1REL Addressable Releasing Control Module. The FCM-1REL is designed to integrate with compatible FlashScan fire alarm control panels (FACPs) to provide addressable control for releasing applications, such as fire suppression systems.

It is imperative that all personnel involved in the installation, programming, and maintenance of this device are fully trained and qualified in fire alarm system procedures and local codes.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock and System Malfunction.

- Installation and wiring must be performed by qualified personnel in accordance with all national and local electrical codes, regulations, and standards.

- Always disconnect power from the fire alarm control panel before installing, servicing, or removing the module.

- Ensure all connections are secure and correct to prevent system faults or improper operation.

- This module is part of a life safety system. Any modifications or improper installation can compromise the system's integrity and effectiveness.

3. PRODUCT OVERVIEW

The Notifier FCM-1REL is an addressable control module specifically designed for releasing applications within a FlashScan intelligent fire alarm system. It allows the FACP to activate releasing devices, such as solenoids for sprinkler systems or pre-action valves, based on programmed alarm conditions.

Key Features:

- Addressable communication with FlashScan compatible FACPs.

- Designed for releasing applications.
- Monitors and controls external devices.

Components:

The module consists of a circuit board housed within a durable plastic casing, designed for mounting in a standard electrical box. It features terminal blocks for wiring connections to the Signaling Line Circuit (SLC) and the releasing device circuit.

Figure 3.1: Front view of the Notifier FCM-1REL module, showing terminal connections for auxiliary power and SLC, along with the mounting bracket.

4. SETUP AND INSTALLATION

The FCM-1REL module is designed for mounting in a standard 4-inch square electrical box. Ensure adequate space for wiring and proper ventilation.

Installation Steps:

1. **Power Disconnection:** Before beginning installation, ensure all power to the fire alarm control panel and associated circuits is disconnected.
2. **Mounting:** Mount the FCM-1REL module securely into a compatible electrical box using the provided screws.
3. **Wiring:**
   - Connect the Signaling Line Circuit (SLC) wires to the designated terminals (e.g., T1, T2). Observe polarity.
   - Connect the releasing device circuit wires to the appropriate output terminals (e.g., T7, T8). Refer to the specific wiring diagram for your application.
   - Connect auxiliary power (if required) to the designated terminals (e.g., T10, T11).
   - Ensure all connections are tight and insulation is intact.
4. **Address Setting:** Set the module's address using the rotary switches or dip switches (if present) according to the FACP's programming requirements.
5. **Verification:** After wiring, verify all connections are correct and secure before restoring power.

Figure 4.1: Notifier FCM-1REL module as supplied in its protective packaging, illustrating the rear view and terminal layout.

5. OPERATING INSTRUCTIONS

The Notifier FCM-1REL module operates under the control of a compatible FlashScan fire alarm control panel (FACP). Its primary function is to receive commands from the FACP to activate connected releasing devices.

Normal Operation:

In a normal state, the module continuously monitors its connected releasing circuit and communicates its status to the FACP. The FACP will indicate a normal condition for the module's address.

Releasing Operation:

Upon receiving a release command from the FACP (triggered by programmed alarm conditions), the FCM-1REL will activate its output circuit, energizing the connected releasing device (e.g., solenoid). This action initiates the release of the fire suppression agent.

Status Indicators:

The module may feature an LED indicator (check specific model documentation) that provides visual status:

- **Normal:** Flashing green (typical).
- **Alarm/Active:** Solid red (typical).
- **Trouble:** Flashing amber (typical).

Refer to the FACP manual for detailed status interpretations and programming.

6. MAINTENANCE

Regular maintenance is crucial for the reliable operation of the FCM-1REL module and the overall fire alarm system.

Recommended Maintenance:

- **Visual Inspection:** Periodically inspect the module for any signs of physical damage, loose connections, or environmental issues (e.g., moisture, excessive dust).
- **System Testing:** Conduct regular system tests as required by local codes and manufacturer guidelines. This includes testing the functionality of the releasing circuit controlled by the FCM-1REL.
- **Cleaning:** If necessary, gently clean the module's exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Documentation:** Keep accurate records of all inspections, tests, and maintenance performed.

Always refer to the fire alarm control panel's manual and relevant NFPA standards for comprehensive system maintenance procedures.

7. TROUBLESHOOTING

If the FCM-1REL module or the associated releasing circuit reports a trouble condition to the FACP, follow these general troubleshooting steps:

- **Check FACP Display:** Note the specific trouble message displayed on the fire alarm control panel. This often provides valuable diagnostic information.
- **Inspect Wiring:** Power down the FACP and visually inspect all wiring connections to the FCM-1REL module and the connected releasing device. Look for loose wires, damaged insulation, or incorrect polarity.
- **Verify Power:** Ensure that the module is receiving adequate power (if auxiliary power is used).

- **Module Address:** Confirm that the module's address is correctly set and matches the FACP programming.
- **Consult FACP Manual:** Refer to the fire alarm control panel's installation and programming manual for specific troubleshooting guides related to addressable modules and releasing circuits.
- **Professional Assistance:** If the trouble persists after performing basic checks, contact a qualified fire alarm technician or Notifier technical support for further assistance.

8. SPECIFICATIONS

Attribute	Detail
Brand	Notifier
Model Number	FCM-1REL
Part Number	NFCM1REL
Manufacturer	NOTIFIER
UPC	670875920668
Item Weight	2 pounds
ASIN	B07BFKBGH8

9. WARRANTY AND SUPPORT

Specific warranty information for the Notifier FCM-1REL module is not provided within this document. For details regarding warranty coverage, terms, and conditions, please refer to the original product packaging, purchase documentation, or contact Notifier directly.

For technical support, installation assistance, or to report issues, please contact your authorized Notifier distributor or a qualified fire alarm system professional.

You can also visit the official Notifier website for additional resources and contact information.
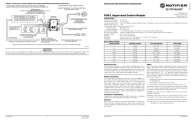
Related Documents - FCM-1REL

[Notifier FCM-1(A) and FRM-1(A) Series Control and Relay Modules Data Sheet](#)
Technical data sheet for Notifier's FCM-1(A) Addressable Control Module and FRM-1(A) Addressable Relay Module, detailing features, applications, specifications, and agency approvals for fire alarm systems.

|	Notifier FCM-1 Supervised Control Module: Installation and Maintenance Instructions
	Detailed installation and maintenance guide for the Notifier FCM-1 Supervised Control Module, covering specifications, wiring, and operational procedures for fire alarm systems.
	Notifier AM-8000 Intelligent Addressable Fire Detection Installation Manual
	This installation manual provides comprehensive guidance for the Notifier AM-8000 Intelligent Addressable Fire Detection system. It covers system overview, technical specifications, electrical features, installation procedures, wiring diagrams, power supply calculations, testing, and maintenance.
	Notifier XP10-M(A) Ten-Input Monitor Module Technical Specifications
	Detailed technical specifications and features for the Notifier XP10-M(A) Ten-Input Monitor Module, an addressable device for intelligent alarm systems.
	Notifier FCM-1 Supervised Control Module Installation and Maintenance Instructions
	Installation and maintenance guide for the Notifier FCM-1 Supervised Control Module, detailing specifications, wiring, mounting, and general operation for fire alarm systems. Includes textual descriptions of diagrams.
	**NOTIFIER NFS-3030 Intelligent Addressable Fire Alarm System	Technical Data Sheet**
	Explore the NOTIFIER NFS-3030, an intelligent addressable fire alarm control panel from the ONYX Series. Engineered for medium to large facilities, it offers advanced detection, modularity, and extensive device support for critical fire safety applications.

Documents - Notifier – FCM-1REL
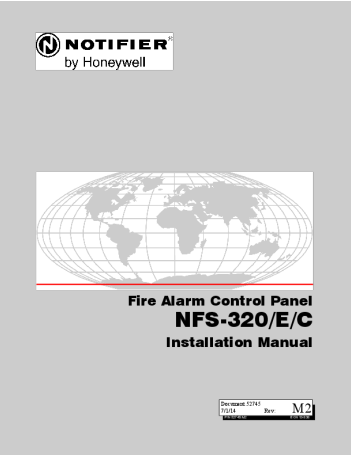
[pdf] User Manual Documentation Guide

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Fire Alarm Control Panel
NFS-320/E/C
Installation Manual

Document 52745
7/1/14 Rev M2

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