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## SIMPLEX 4090-9101

# SIMPLEX 4090-9101 Monitor Relay User Manual

ZAM Class B, 18.9-32 VDC (Nominal 24 VDC)

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the SIMPLEX 4090-9101 Monitor Relay. This device functions as a ZAM Class B monitor, compatible with IDNET and MAPNET systems, designed to operate within a voltage range of 18.9-32 VDC (Nominal 24 VDC).

The SIMPLEX 4090-9101 is a critical component in fire safety systems, enabling monitoring functions. Please read this manual thoroughly before attempting any installation or operation.

## 2. SAFETY INFORMATION

### **WARNING: Risk of Electric Shock and Fire Hazard.**

- Installation and servicing must be performed by qualified personnel only.
- Disconnect all power sources before installation, maintenance, or troubleshooting.
- Ensure all wiring complies with local and national electrical codes.
- Do not operate the device if it appears damaged.
- This device is intended for use in fire alarm and suppression systems. Misuse can lead to system failure.

## 3. SETUP AND INSTALLATION

The SIMPLEX 4090-9101 Monitor Relay is designed for W Mount installation. Follow these general guidelines for setup:

1. **Unpacking:** Carefully remove the monitor relay from its packaging. Inspect for any visible damage.
2. **Mounting:** Securely mount the relay using appropriate hardware for W Mount applications. Ensure the mounting surface is stable and free from excessive vibration.
3. **Wiring:** Connect the relay to the fire alarm control panel (FACP) or other compatible system components according to the specific wiring diagrams provided with your overall system documentation. Pay close attention to polarity and voltage requirements (18.9-32 VDC).
4. **System Integration:** Integrate the monitor relay into the IDNET or MAPNET system as per the system's programming and configuration instructions.

5. **Power Up:** Once all connections are secure and verified, apply power to the system.



Figure 1: SIMPLEX 4090-9101 Monitor Relays as received in packaging. Each unit is individually wrapped in clear plastic.

## 4. OPERATING INSTRUCTIONS

The SIMPLEX 4090-9101 Monitor Relay operates as part of a larger fire alarm system. Its primary function is to monitor specific conditions or devices and report their status to the main control panel.

- **Monitoring:** Once properly installed and configured, the relay continuously monitors the connected circuit or device.

- **Status Indication:** The relay typically provides status indications (e.g., LED indicators) to show its operational state, such as normal, alarm, or trouble. Refer to your system's specific documentation for indicator meanings.
- **Reporting:** Any change in the monitored condition is communicated to the fire alarm control panel, which then processes the information according to its programming (e.g., activating alarms, sending notifications).

No direct user interaction is typically required for the operation of the monitor relay itself, as it functions automatically within the fire safety system.

## 5. MAINTENANCE

Regular maintenance ensures the reliable operation of the SIMPLEX 4090-9101 Monitor Relay and the overall fire safety system.

- **Periodic Inspection:** Visually inspect the relay and its connections periodically for any signs of damage, corrosion, or loose wiring.
- **Cleaning:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **System Testing:** Adhere to the fire safety system's recommended testing schedule. This typically involves functional tests of all components, including monitor relays, to ensure they respond correctly.
- **Professional Servicing:** All internal maintenance or repairs should be performed by authorized SIMPLEX service technicians or qualified fire safety professionals.

## 6. TROUBLESHOOTING

If the SIMPLEX 4090-9101 Monitor Relay or the associated system exhibits abnormal behavior, consider the following troubleshooting steps:

- **No Power/No Indication:**
  - Verify that the power supply to the system and the relay is active and within the specified voltage range (18.9-32 VDC).
  - Check all wiring connections for looseness or damage.
- **Trouble Signal:**
  - Consult the fire alarm control panel's manual for specific trouble codes related to the monitor relay.
  - Inspect the monitored device or circuit for faults (e.g., open circuits, short circuits).
- **False Alarms:**
  - Ensure the environment is free from conditions that might trigger false alarms (e.g., excessive dust, humidity, electrical interference).
  - Verify proper configuration and sensitivity settings within the system programming.

**If issues persist, contact qualified service personnel or SIMPLEX technical support.**

## 7. SPECIFICATIONS

Feature	Specification
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<b>Brand</b>	SIMPLEX
<b>Model Number</b>	4090-9101
<b>Description</b>	Monitor Relay, ZAM Class B, IDNET & MAPNET compatible
<b>Operating Voltage</b>	18.9-32 VDC (Nominal 24 VDC)
<b>Mounting Type</b>	W Mount
<b>Item Weight</b>	16 ounces
<b>UPC</b>	643485652854
<b>GTIN</b>	643485652854

## 8. WARRANTY INFORMATION

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Warranty information for the SIMPLEX 4090-9101 Monitor Relay is not provided within this document. Please refer to the original purchase documentation or contact SIMPLEX directly for details regarding warranty coverage and terms.

## 9. SUPPORT

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For technical assistance, troubleshooting beyond the scope of this manual, or inquiries regarding parts and service, please contact SIMPLEX customer support or an authorized SIMPLEX distributor. Always provide the model number (4090-9101) and any relevant system information when seeking support.