



UL, ULC, CSFM Listed; FM Approved;  
MEA (NYC) Acceptance\*

## Multi-Application Peripherals

IDNet Communicating Devices  
Model 4090-9002 Relay IAM

### Features

#### Individual Addressable Relay Module (Relay IAM):

- IDNet addressable control for use with Simplex® fire alarm control panel models 4007ES, 4008, 4010, 4010ES, 4100ES, and 4100U
- A single addressable point provides control and status tracking of a Form “C” contact
- Low power latching relay design allows IDNet communications to supply both data and module power
- Relay is set to OFF on initial power up and upon loss of IDNet communications

#### Compact, sealed construction:

- Enclosed design minimizes dust infiltration
- Mounts in standard 4” (102 mm) square electrical box, optional adapter bracket is available to mount in a 4 11/16” (119 mm) square electrical box
- Screw terminals for wiring connections
- Visible LED flashes to indicate communications
- Optional covers are available to allow LED to be viewed after installation

#### UL listed to Standard 864

### Description

**IDNet Relay IAMs** allow fire alarm control panels to control a remotely located Form “C” contact using IDNet addressable communications for both data and module power. Typical applications would be for switching local power for control functions such as elevator capture, or control of HVAC components, pressurization fans, dampers, etc. Relay status is also communicated requiring only one device address.

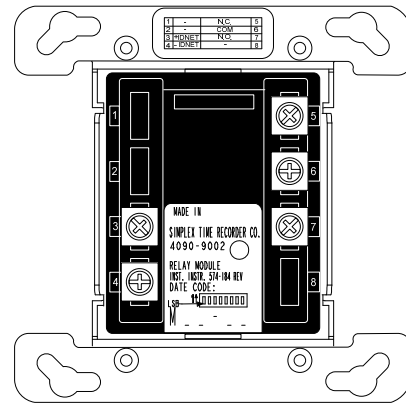
### Product Selection

| Model     | Description |
|-----------|-------------|
| 4090-9002 | Relay IAM   |

#### Optional Adapter and Trim Plates

| Model     | Description                                                  |                                                                                 |
|-----------|--------------------------------------------------------------|---------------------------------------------------------------------------------|
| 4090-9813 | Adapter plate to fit 4 11⁄16" (119 mm) square electrical box |                                                                                 |
| 4090-9801 | For semi-flush mounted box                                   | Trim Plate, galvanized steel, with LED viewing window; includes mounting screws |
| 4090-9802 | For surface mounted box                                      |                                                                                 |

\* This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7300-0026:223 for allowable values and/or conditions concerning material presented in this document. Accepted for use – City of New York Department of Buildings – MEA35-93E. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

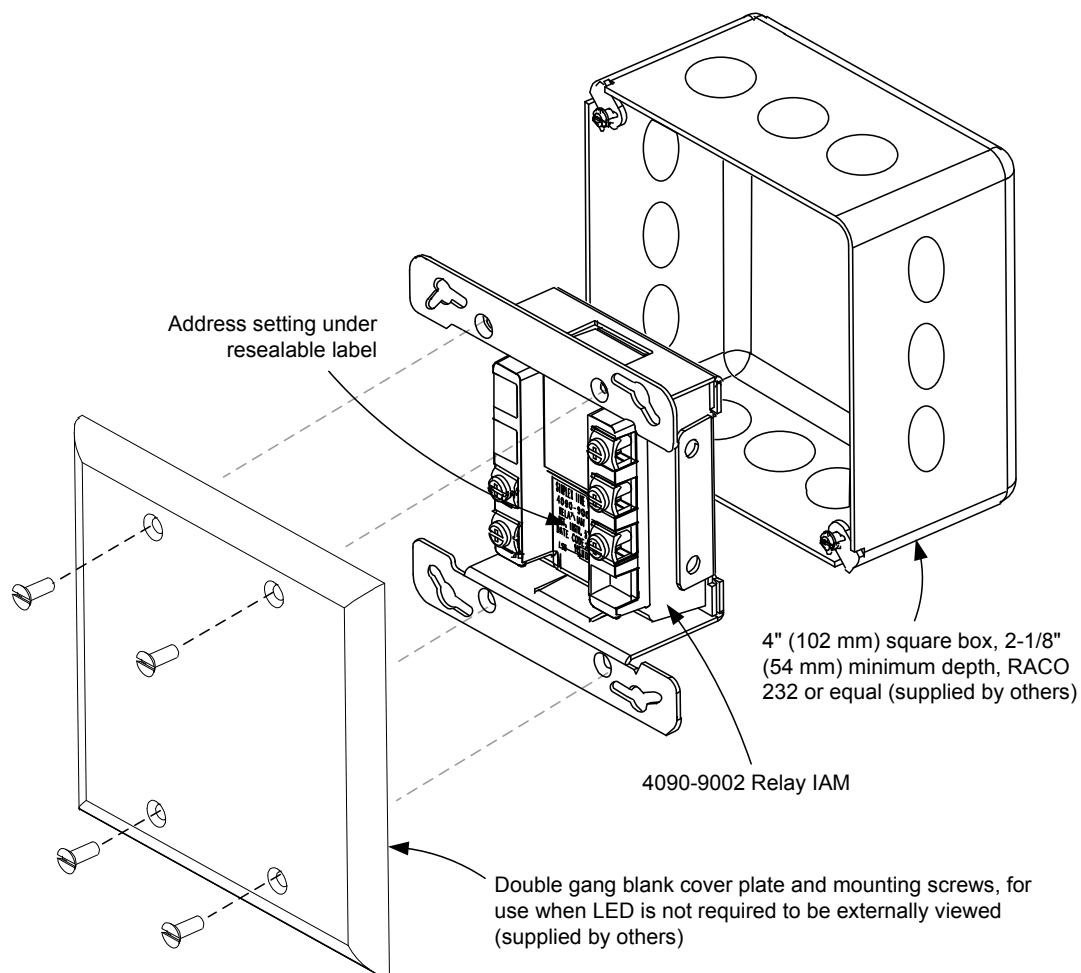


4090-9002 IDNet Relay IAM Package  
(shown approximately 1/2 size)

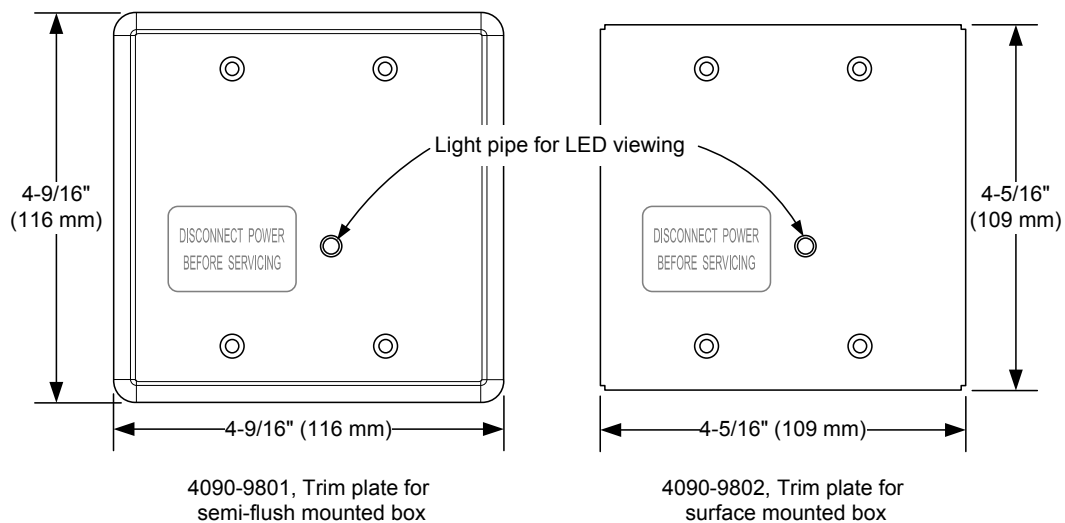
### Specifications

|                                                                                                                                                                                                                                                                                        |                                                                                      |                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------|
| Communications                                                                                                                                                                                                                                                                         | IDNet communications, 1 address per device                                           |                               |
| Relay IAM Power                                                                                                                                                                                                                                                                        | Supplied by IDNet communications                                                     |                               |
| <b>Contact Ratings*</b> (not rated for incandescent switching)                                                                                                                                                                                                                         |                                                                                      |                               |
| Type                                                                                                                                                                                                                                                                                   | Form C, SPDT                                                                         |                               |
| Power-Limited                                                                                                                                                                                                                                                                          | 2 A @ 24 VDC, resistive                                                              | from listed fire alarm supply |
|                                                                                                                                                                                                                                                                                        | 1 A @ 24 VDC, inductive                                                              |                               |
| Nonpower-Limited                                                                                                                                                                                                                                                                       | 0.5 A @ 120 VAC, resistive                                                           |                               |
| * Provide circuit fusing and transient suppression as required per application. DC inductive loads can typically be diode suppressed; 120 VAC loads may require RC networks or varistors, depending on device type. Refer to the installation instructions for additional information. |                                                                                      |                               |
| Wire Connections                                                                                                                                                                                                                                                                       | Screw terminals for in/out wiring, 18 to 14 AWG wire (0.82 to 2.08 mm <sup>2</sup> ) |                               |
| IDNet Communications Wiring Reference                                                                                                                                                                                                                                                  | Up to 2500 ft (762 m) from control panel                                             |                               |
|                                                                                                                                                                                                                                                                                        | Up to 10,000 ft (3048 m) total wiring distance (including T-Taps)                    |                               |
|                                                                                                                                                                                                                                                                                        | Compatible with Simplex 2081-9044 Overvoltage Protectors                             |                               |
| Dimensions                                                                                                                                                                                                                                                                             | 4 1⁄8" H x 4 1⁄8" W x 1 3⁄8" D (105 mm x 105 mm x 35 mm)                             |                               |
| Housing Material                                                                                                                                                                                                                                                                       | Black thermoplastic                                                                  |                               |
| Mounting Plate                                                                                                                                                                                                                                                                         | Sheet metal, galvanized                                                              |                               |
| Temperature Range                                                                                                                                                                                                                                                                      | 32° to 120° F (0° to 49° C), intended for indoor operation                           |                               |
| Humidity Range                                                                                                                                                                                                                                                                         | Up to 93% RH at 100° F (38° C)                                                       |                               |
| Installation Instructions                                                                                                                                                                                                                                                              | 574-184                                                                              |                               |

## Relay IAM Mounting Information



### Mounting Reference, Double Gang Blank Cover Plate



### Optional Trim Plates for Visible LED

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