Features

Dual Contact Relay IAMs allow fire alarm control panels to control two 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.
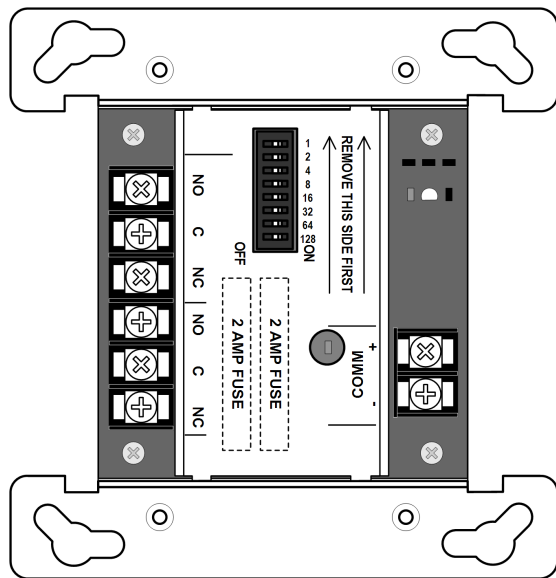

Fig 1: A4090-9008 Dual Contact Relay IAM

Dual Contact Relay IAM (Individual Addressable Module):

· A single addressable point provides control and status tracking of two, 2 A Form "C" contacts
· 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

For use with following Autocall control panels:

Model Series 4007ES, 4010ES, and 4100ES fire alarm control panels for IDNet communications

Compact construction:

· Mounts in standard 4" (102 mm) square electrical box, optional adapter bracket is available to mount in a 4 $^{11}/_{16}$" square electrical box
· Screw terminals for wiring connections
· Visible LED flashes to indicate communications, can be selected at panel to indicate activated state
· Optional 4" square box covers are available to allow LED to be viewed after installation

UL listed to Standard 864

Product Selection

Table 1: Product Selection

SKU	Description
A4090-9008	Dual Contact Relay IAM

Table 1: Product Selection

SKU	Description	
A4090-9813	Optional adapter plate to fit 4 $^{11}/_{16}$" (119 mm) square electrical box	
A4090-9801	Optional adapter plate for semi-flush mounted box	Optional trim plate for 4" boxes with LED viewing window, includes mounting screws; galvanized steel
A4090-9802	Optional adapter plate for surface mounted box	

Specifications

Table 2: General Specifications

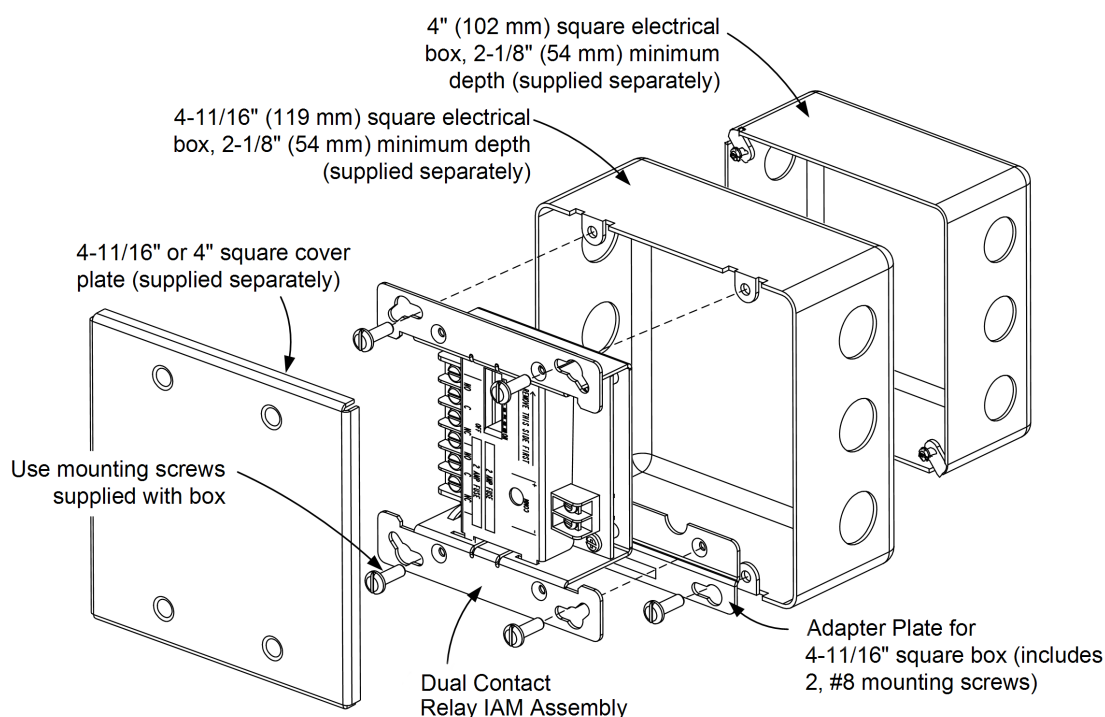| Specification	Rating
Communications	IDNet communications, 1 address per device
Power	Supplied by communications
Installation Instructions	579-1040AC
IDNet Firmware	Requires 3.12.04 or higher
Wire Connections	Screw terminals for in/out wiring, 18 to 14 AWG wire (0.82 to 2.08 mm^2)
IDNet Communications 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 Autocall, A2081-9044 Overvoltage Protectors
Dimensions	4 ⅛" H x 4" W x 1 ⅜" D (105 mm x 102 mm x 35 mm)
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)

Table 3: Contact Ratings* (not rated for incandescent switching)

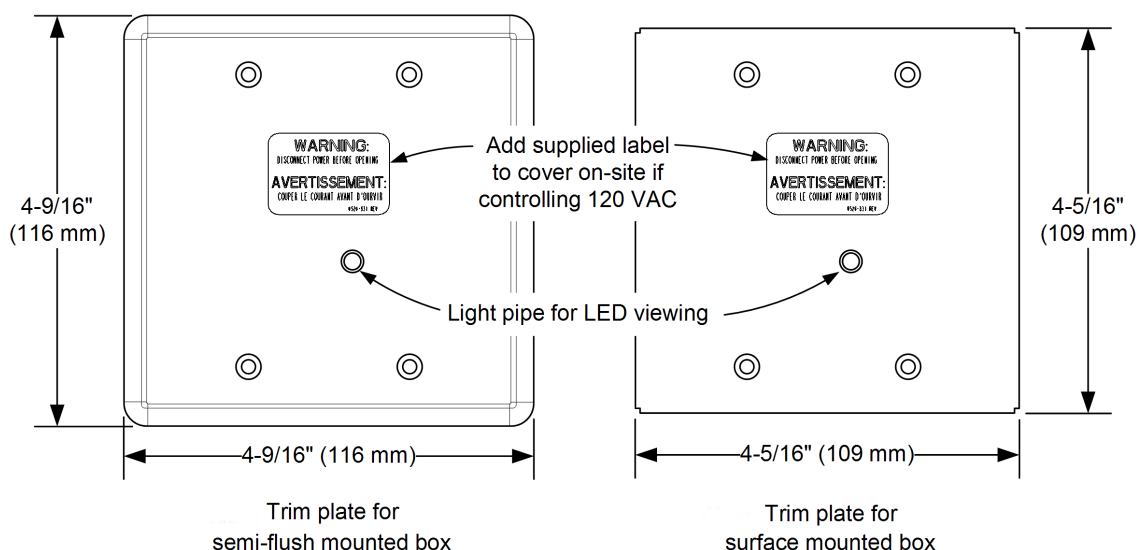| Specification	Rating	
Type	Dual Form C contacts (DPDT) with terminal block access to Common, N.O., and N.C for each contact	
Power-Limited	2 A @ 30 VDC, resistive	from listed fire alarm supply
	1 A @ 30 VDC, inductive	
Nonpower-Limited	0.5 A @ 125 VAC, resistive	
Relay Fusing	Each contact common is fused with a 2 A fast acting non-time delay fuse	
Note: * Provide external 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 Installation Instructions for additional information.		

* Additional listings may be applicable; contact your local product supplier for the latest status.

Dual Contact Relay IAM Mounting Information

on page 2 shows the procedure for mounting the A4090-9008 Dual Contact Relay IAM Assembly to the A4090-9813 Adapter Plate. Also shown are the optional A4090-9801 Trim Plate for semi-flush mounted boxes and the A4090-9802 Trim Plate for surface mounted boxes.

4" (102 mm) square electrical box, 2-1/8" (54 mm) minimum depth (supplied separately)

4-11/16" (119 mm) square electrical box, 2-1/8" (54 mm) minimum depth (supplied separately)

4-11/16" or 4" square cover plate (supplied separately)

Use mounting screws supplied with box

Dual Contact Relay IAM Assembly

Adapter Plate for 4-11/16" square box (includes 2, #8 mounting screws)

Mounting Reference with 4-11/16" Square and 4" Square Boxes

4-9/16" (116 mm)

WARNING: DISCONNECT POWER BEFORE OPENING AVERTISSEMENT: COUPER LE COURANT AVANT D'OUVRIR

Add supplied label to cover on-site if controlling 120 VAC

WARNING: DISCONNECT POWER BEFORE OPENING AVERTISSEMENT: COUPER LE COURANT AVANT D'OUVRIR

4-5/16" (109 mm)

Light pipe for LED viewing

4-9/16" (116 mm)

4-5/16" (109 mm)

Trim plate for semi-flush mounted box

Trim plate for surface mounted box

Optional Trim Plates for 4" Square Boxes with Visible LED