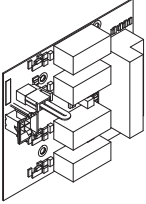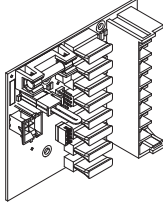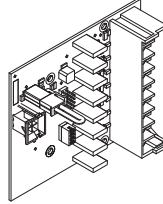# PS-900 Series Option Boards

SCHLAGE

Installation Instructions

⚠ DANGER ⚠

To avoid risk of electric shock, turn off AC power to power supply before installing or wiring option board


This sheet covers:

900-4R	**900-8F**	**900-8P**
4 Independently Controlled Relays	8 Fuse Protected Outputs	8 PTC Protected Outputs
Page 2	Page 3	Page 4

Refer to installation instructions for compatible supply models - PS902, PS904, PS906, and PS914.
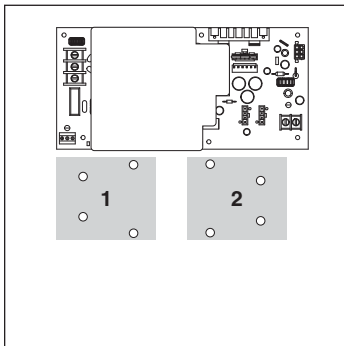
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1 INSTALL OPTION BOARD(S) INTO POWER SUPPLY

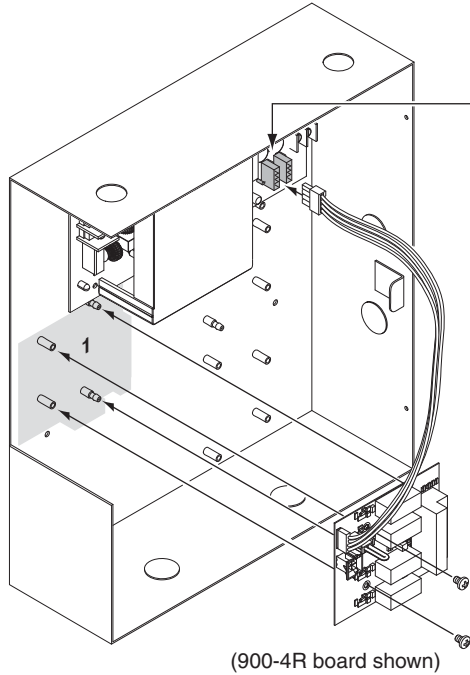**a** **Review Available Board Mounting Locations (gray)**

PS902

PS904
PS914

PS906

(900-4R board shown)
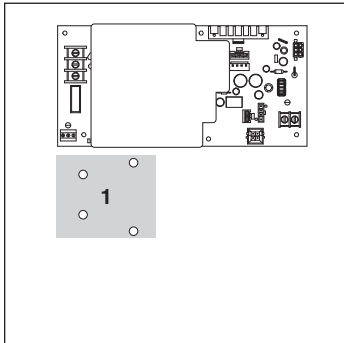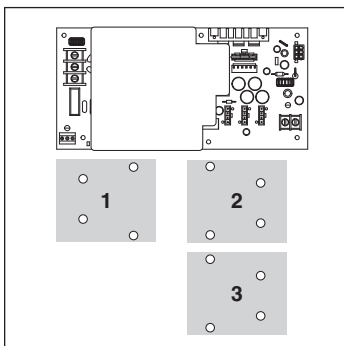
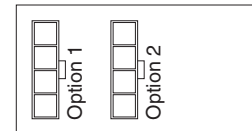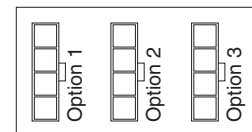**b** **Plug Cable into any Available Option Connector**

Option 1 — PS902

Option 1, Option 2 — PS904, 914

Option 1, Option 2, Option 3 — PS906

c **Secure Board(s) with Screws**

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1-877-671-7011   www.allegion.com

900-4R

900-4R Specifications

Inputs I1-I4	Dry contacts required (Closed = Active)
	Connect control contacts between SC (Signal Common) and any input
Outputs O1-O4	• Form C contacts rated 30VDC, 3A (dry) • 12/24VDC, 3A (wet) when AC powered • 9.6-13.2VDC or 19.2-26.4VDC when battery powered • Maximum load cannot exceed power supply ratings or 6A for outputs combined
Board Input Power	Board requires 0.18A max. of power supply output current to operate
Temperature Range	32°-120° F (0°- 49° C)
Compliance	UL 294, ULC-S318, RoHS, & FCC Part 15
Fire Alarm Input	Accepts 900-FA Fire Alarm Board (Optional)

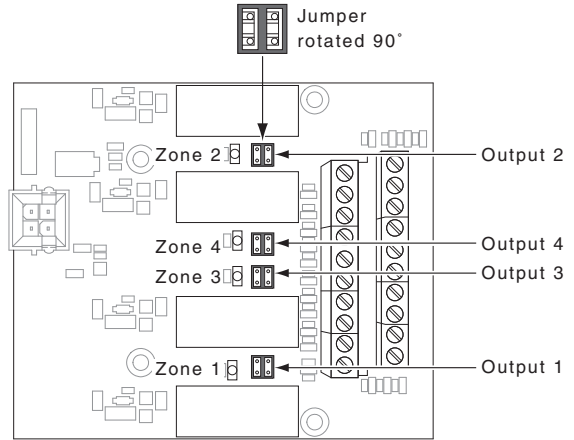Function: Four independent dry-contact inputs control four Form C outputs

Powered Outputs
(Default)

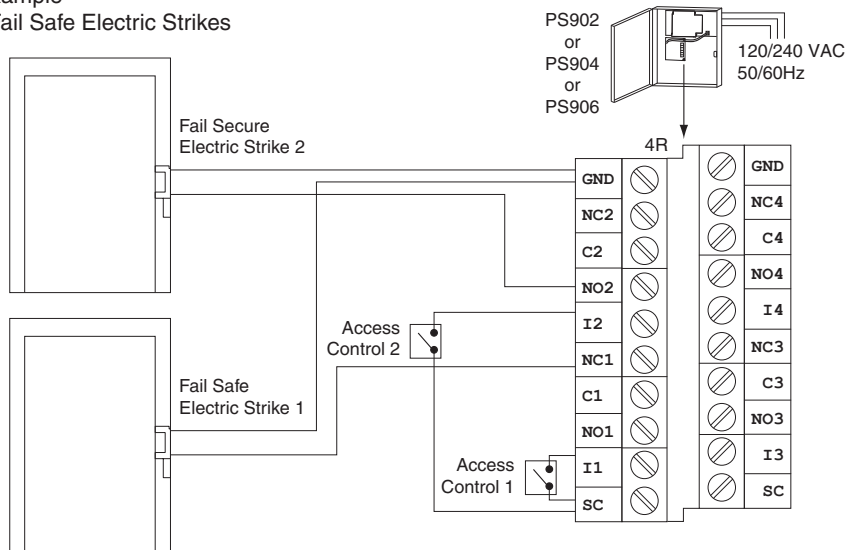By default, all outputs provide 12/24VDC
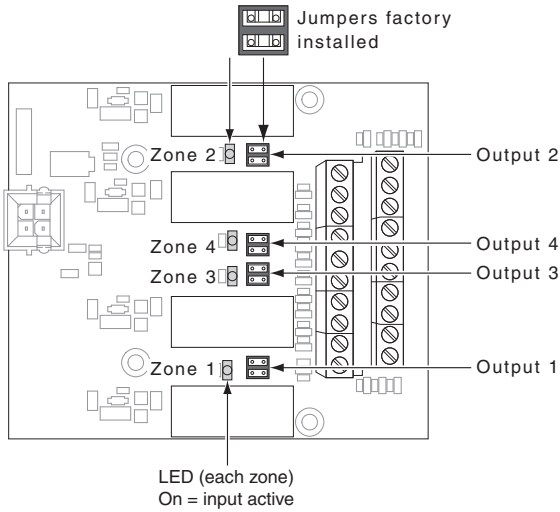
Dry Contact Outputs
(Optional)

For dry contact outputs, remove appropriate jumpers and rotate 90˚, then reinstall (Zone 1 - Zone 4)

900-4R Wiring Example
Fail Secure and Fail Safe Electric Strikes

Note:
Fail secure output only allowed if approved
by Authority Having Jurisdiction
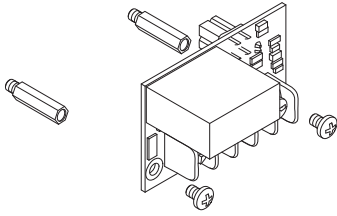
Refer to Wire Table
(page 4)

900-FA Fire Alarm Input

Installation Instructions

SCHLAGE

Input (Fire Alarm)	Dry contacts required (Closed = no fire alarm) Connect control contacts between FA1 and FA2
Output (Supervision)	30VDC, 1A resistive dry contact
Board Input Power	Board requires 0.05A max. of power supply output current to operate
Temperature Range	32°-120° F (0°- 49° C)
Compliance	UL 294, ULC-S318, RoHS, & FCC Part 15

The 900-FA Fire Alarm board can be installed on any one of the following power supply or option boards (refer to installation instructions):

WARNING

To avoid risk of electric shock, turn off AC power to power supply before installing or wiring 900-FA board. In the event a fire alarm is active, this board will remove power from the PS902 DC output and any 900-series option board output.
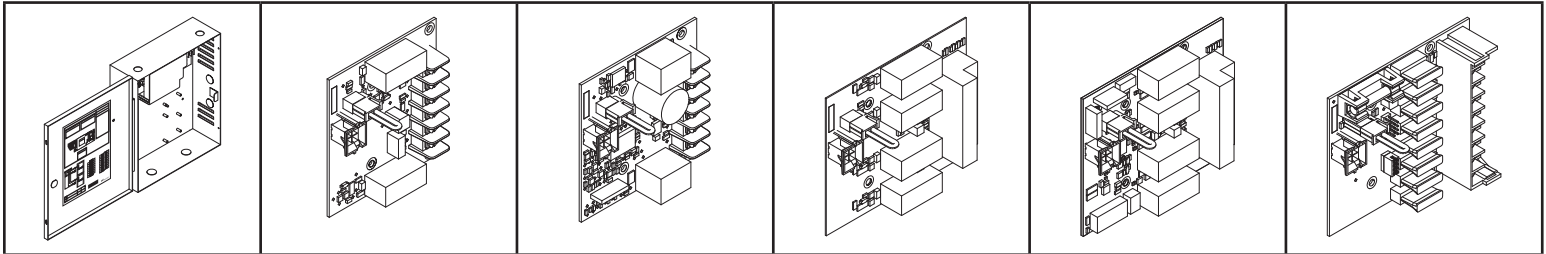
PS902 Power Supply

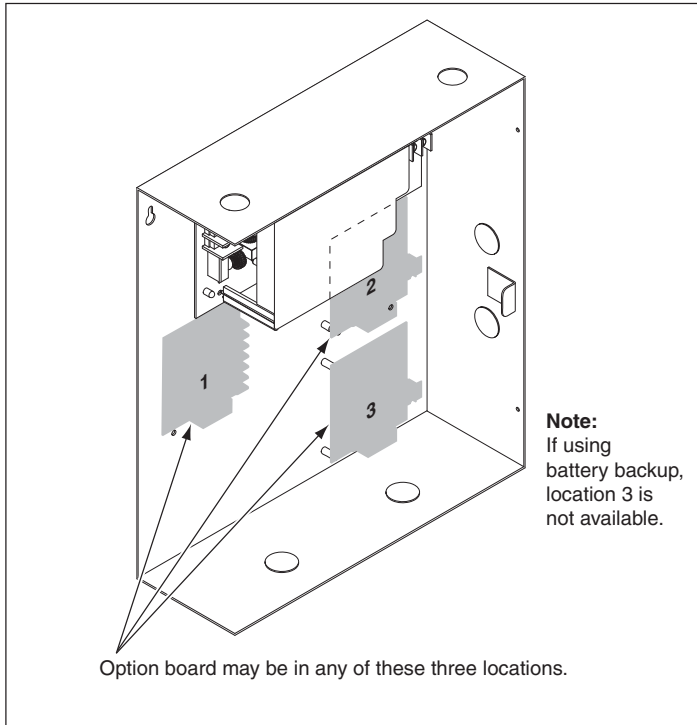900 2RS (2 relay)

900-2Q (2 Relay w/com)

900-4R (4 Relay)

900-4RL (4 Relay w/logic)

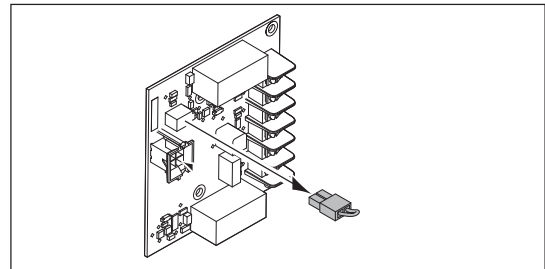900-8F (8 Zone, Distribution-fuse) 900-8P (8 Zone, Distribution-PTC)

- **If 900-FA was factory installed, go to step 2**
- **If installing to option board, go to 1a**
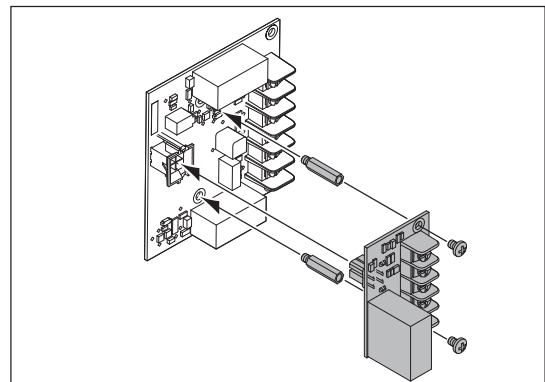- **If installing to PS902 main board, go to 1b**

1a If installing to option board

Choose Option Board where 900-FA is to be Installed

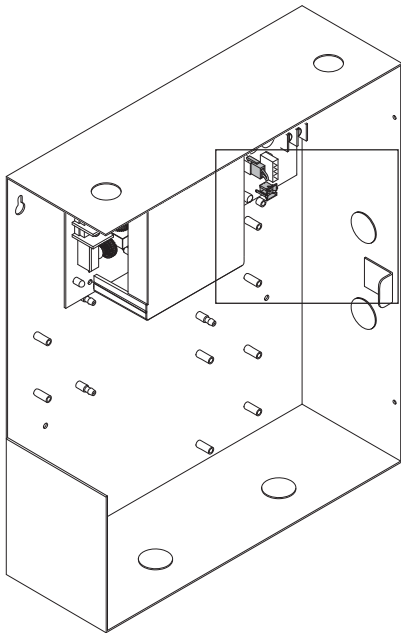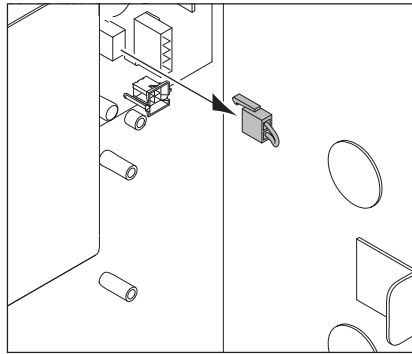**Remove Jumper from Option Board**

Install 900-FA to Option Board

Note:
If using battery backup, location 3 is not available.

Option board may be in any of these three locations.

Customer Service
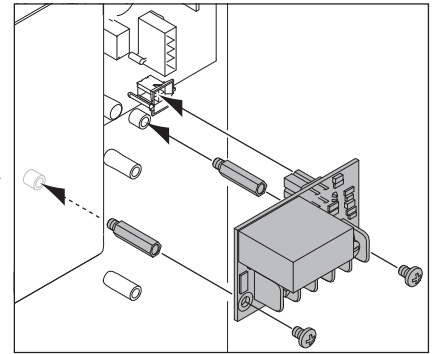1-877-671-7011   www.allegion.com

## **1**b If installing to PS902 main board

Remove Jumper

Install 900-FA Here

Note: Complete power failure shall result in a fail safe operation.
When connected to a fire alarm releasing control unit, total
loss of power for the locking mechanisms shall be configured
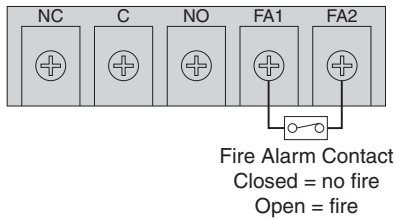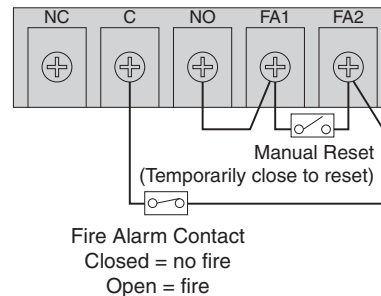for a fail safe operation.

2 900-FA wiring

Terminal Definitions

NC	C	NO	FA1	FA2

Supervision Output
Contacts Shown FA Active (open)

Fire Alarm Input
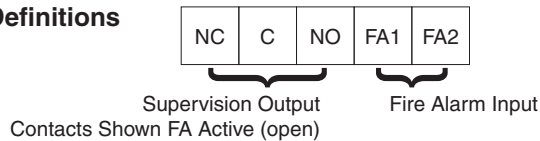
Note: Use 18 gauge wire for all wiring. Wire
length dependent on physical layout.

One 900-FA Board - Automatic Reset

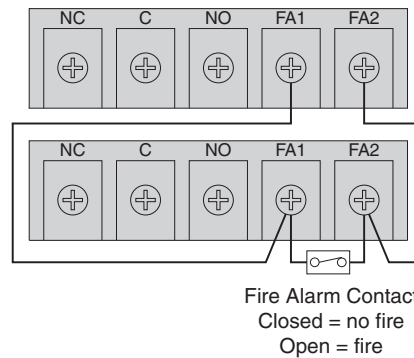| NC	C	NO	FA1	FA2

Fire Alarm Contact
Closed = no fire
Open = fire

One 900-FA Board - Manual Reset

NC	C	NO	FA1	FA2

Manual Reset
(Temporarily close to reset)

Fire Alarm Contact
Closed = no fire
Open = fire

**Two 900-FA Boards on one power supply
Automatic Reset**

NC	C	NO	FA1	FA2

NC	C	NO	FA1	FA2

Fire Alarm Contact
Closed = no fire
Open = fire
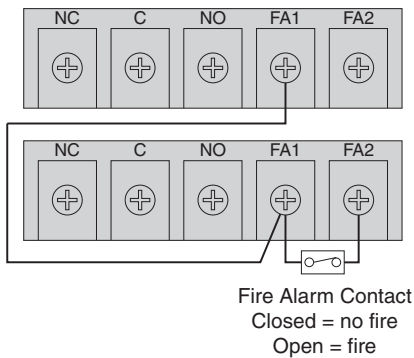
**Two 900-FA Boards on two power supplies
Automatic Reset**

NC	C	NO	FA1	FA2

NC	C	NO	FA1	FA2

Fire Alarm Contact
Closed = no fire
Open = fire

NOTE: WHEN INSTALLATION IS COMPLETE, SECURE ENCLOSURE DOOR WITH SCREWS OR KEYLOCK

ALLEGION