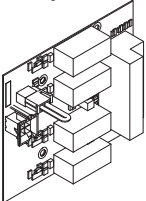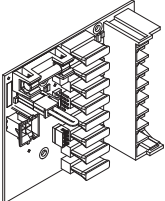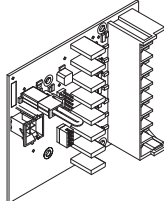# PS-900 Series
Option Boards

SCHLAGE

Installation Instructions

⚠ DANGER ⚠

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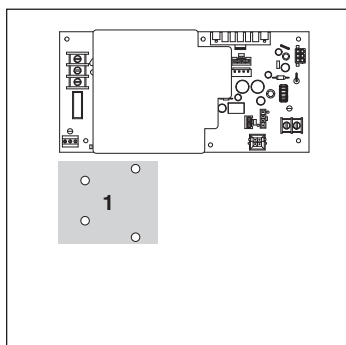

This sheet covers:

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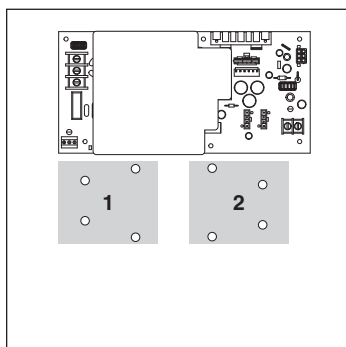
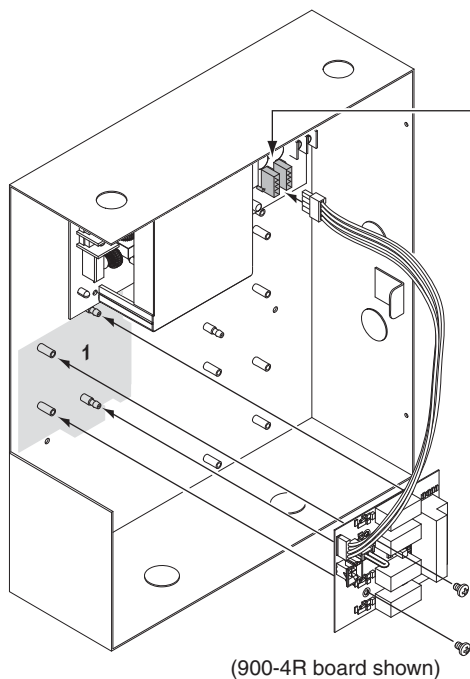**a** **Review Available Board Mounting Locations (gray)**

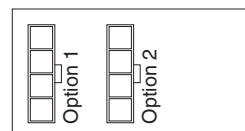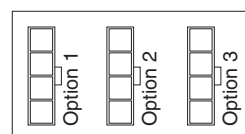PS902

PS904
PS914

PS906
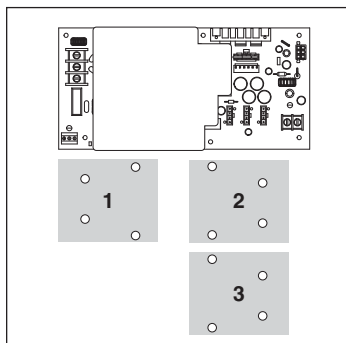
(900-4R board shown)

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**

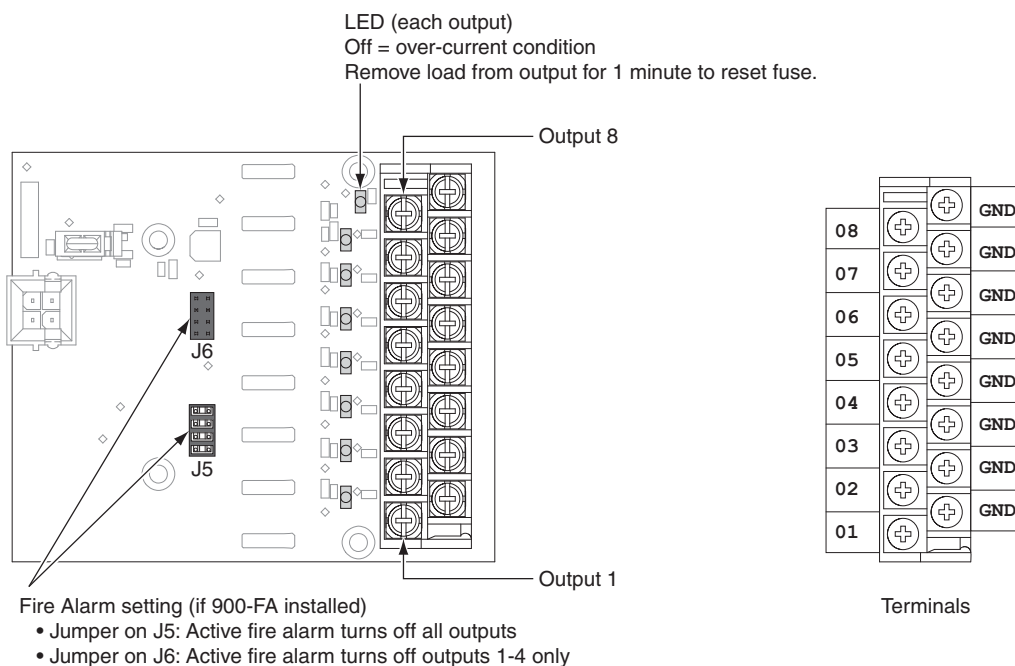---

Customer Service

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

900-8P Specifications

Each Output	• 1.4A maximum • 12/24VDC 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 0.045A 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: Provides 8 independent outputs, each protected by an automatically-resettable thermal fuse.

LED (each output)
Off = over-current condition
Remove load from output for 1 minute to reset fuse.

Output 8

J6

J5

Output 1

Terminals

Fire Alarm setting (if 900-FA installed)
  • Jumper on J5: Active fire alarm turns off all outputs
  • Jumper on J6: Active fire alarm turns off outputs 1-4 only

Note:
Fail secure output only allowed if approved
by Authority Having Jurisdiction

Wire Table: (Suggested maximum)

Wire Ga (AWG)	Device Current (Amps DC)	Output* (max. ft)	Input (max. ft)
14	0.3	850	
	0.5	500	
18	0.3	340	1200
	0.5	200	

*Wiring allows for 10% voltage drop at device current at 12 or 24VDC

Max. ft = one way distance between power supply and device.

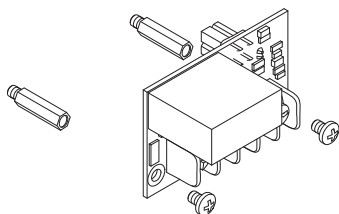## NOTE: WHEN INSTALLATION IS COMPLETE, SECURE ENCLOSURE DOOR WITH SCREWS OR KEYLOCK.

ALLEGION

900-FA Fire Alarm Input

44487072

| 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.
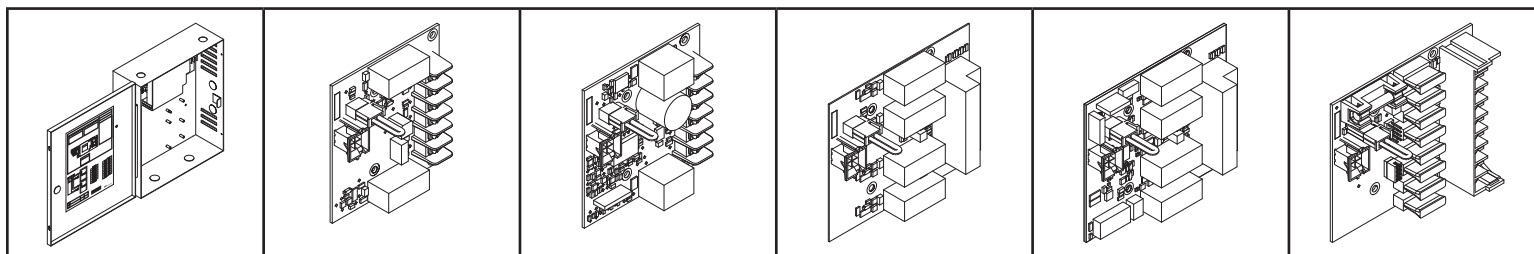
PS902 Power Supply

900 2RS (2 relay)

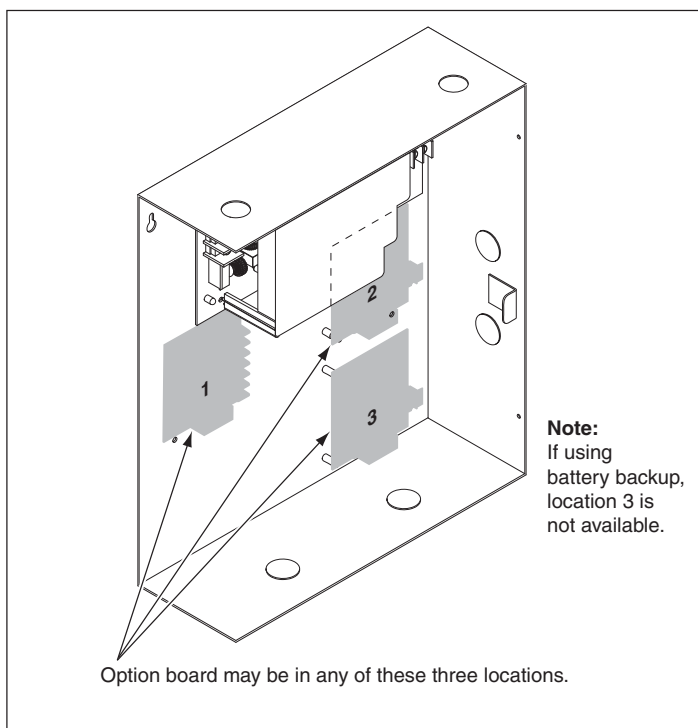900-2Q (2 Relay w/com)

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**
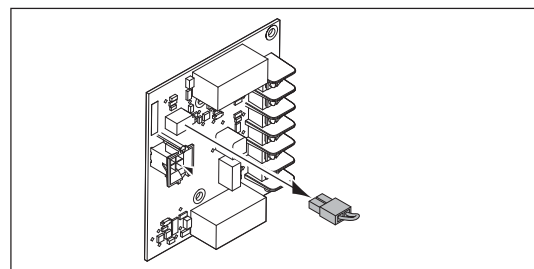
1a If installing to option board

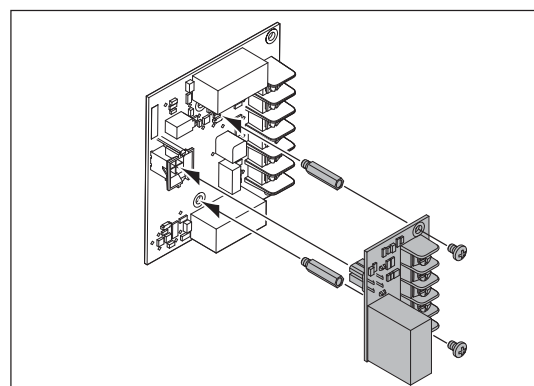**Choose Option Board where 900-FA is to be Installed**

Remove Jumper from Option Board

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

Install 900-FA to Option Board

Option board may be in any of these three locations.

Customer Service
1-877-671-7011   www.allegion.com
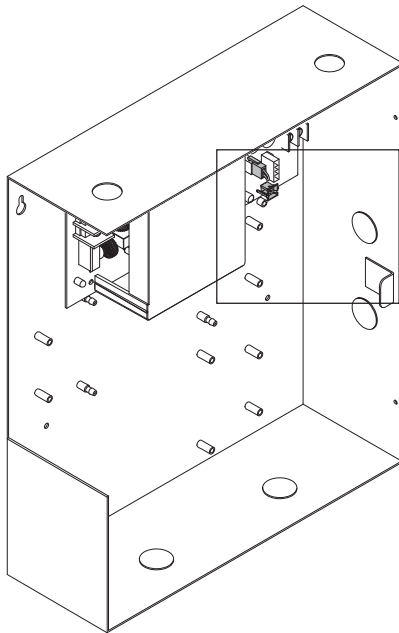
Remove Jumper
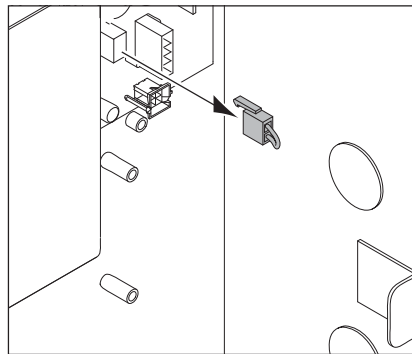
Install 900-FA Here
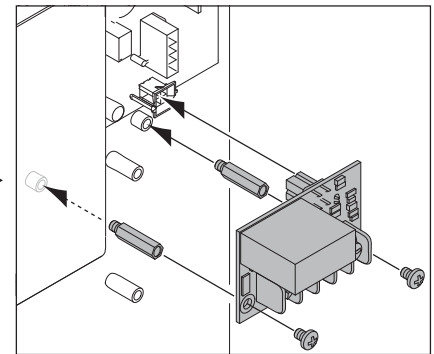
Note: Complete power failure shall result in a fail safe operation.
When connected to a fire alarm releasing control unit, total
loss of power for the locking mechanisms shall be configured
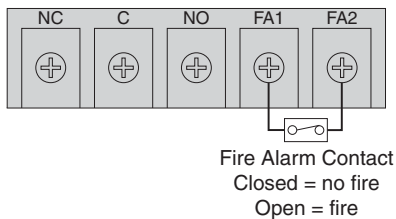for a fail safe operation.
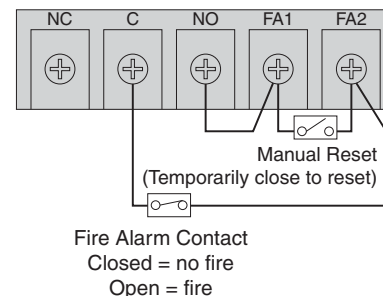
2 900-FA wiring

Terminal Definitions

NC	C	NO	FA1	FA2

Supervision Output   Fire Alarm Input
Contacts Shown FA Active (open)
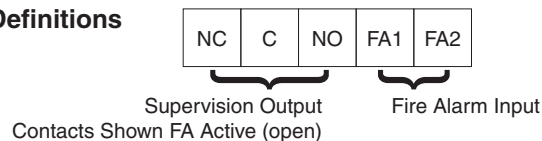
Note: Use 18 gauge wire for all wiring. Wire
length dependent on physical layout.

One 900-FA Board - Automatic Reset

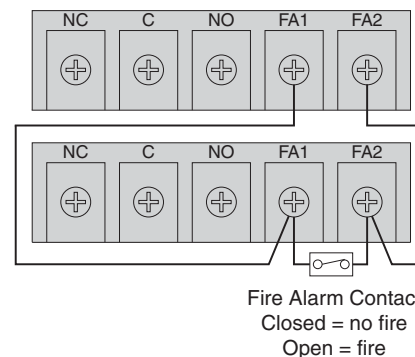| NC	C	NO	FA1	FA2

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
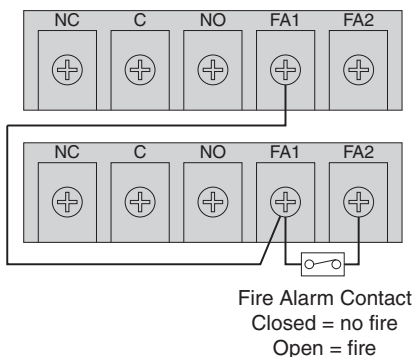
**Two 900-FA Boards on two power supplies
Automatic Reset**

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