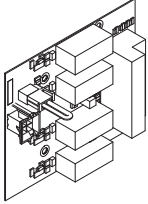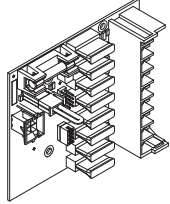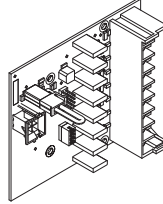# PS-900 Series
Option Boards

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.

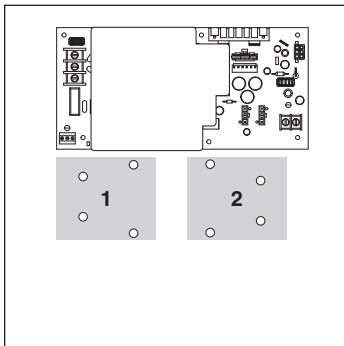**1** INSTALL OPTION BOARD(S) INTO POWER SUPPLY

a Review Available Board Mounting Locations (gray)

PS902

PS904
PS914

PS906

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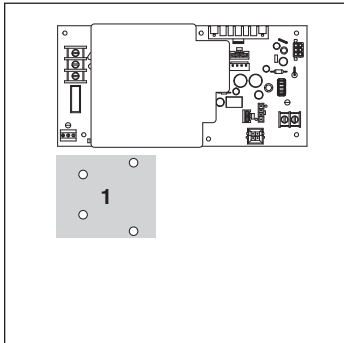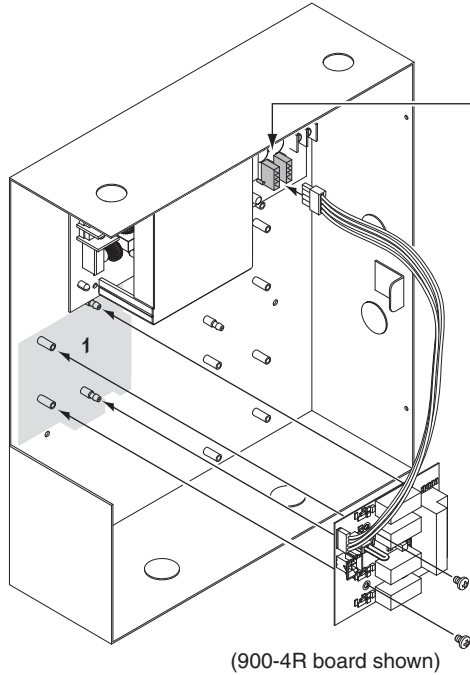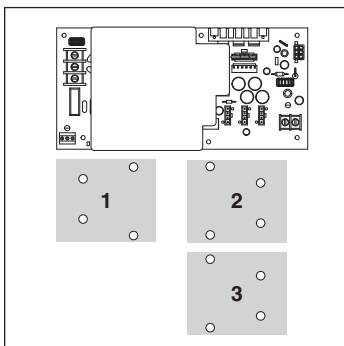
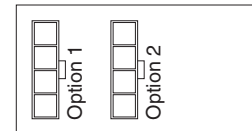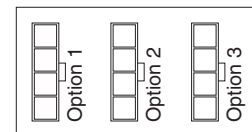**b** Plug Cable into any Available Option Connector

Option 1 — PS902

Option 1 / Option 2 — PS904, 914

Option 1 / Option 2 / Option 3 — PS906

c Secure Board(s) with Screws

Customer Service

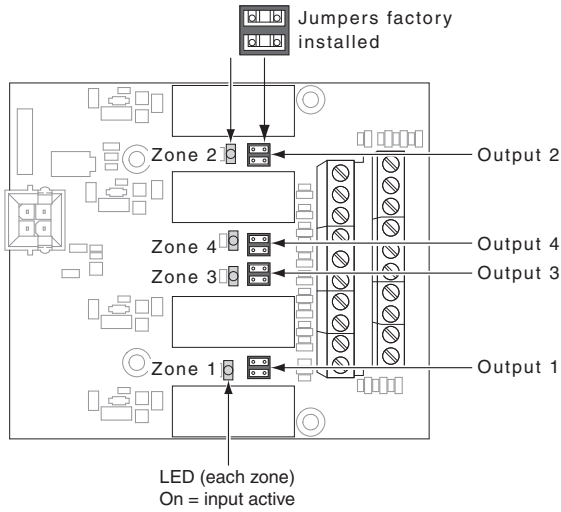1-877-671-7011   www.allegion.com

900-4R

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

Jumpers factory installed

Zone 2 — Output 2

Zone 4 — Output 4
Zone 3 — Output 3

Zone 1 — Output 1

LED (each zone)
On = input active

Dry Contact Outputs

(Optional)

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

Jumper rotated 90˚

Zone 2 — Output 2

Zone 4 — Output 4
Zone 3 — Output 3

Zone 1 — Output 1
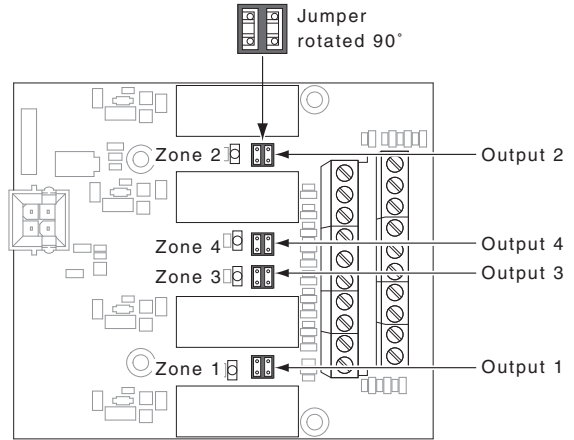
900-4R Wiring Example
Fail Secure and Fail Safe Electric Strikes

PS902 or PS904 or PS906

120/240 VAC 50/60Hz

4R

Fail Secure Electric Strike 2

Fail Safe Electric Strike 1

Access Control 2

Access Control 1

GND			GND	
NC2			NC4	
C2			C4	
NO2			NO4	
I2			I4	
NC1			NC3	
C1			C3	
NO1			NO3	
I1			I3	
SC			SC	
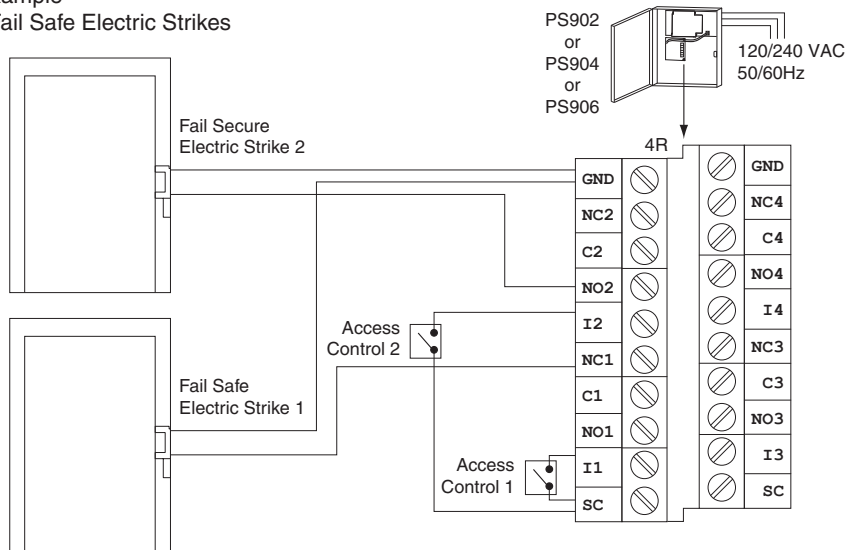
Note:
Fail secure output only allowed if approved by Authority Having Jurisdiction

Refer to Wire Table (page 4)

900-8F Specifications

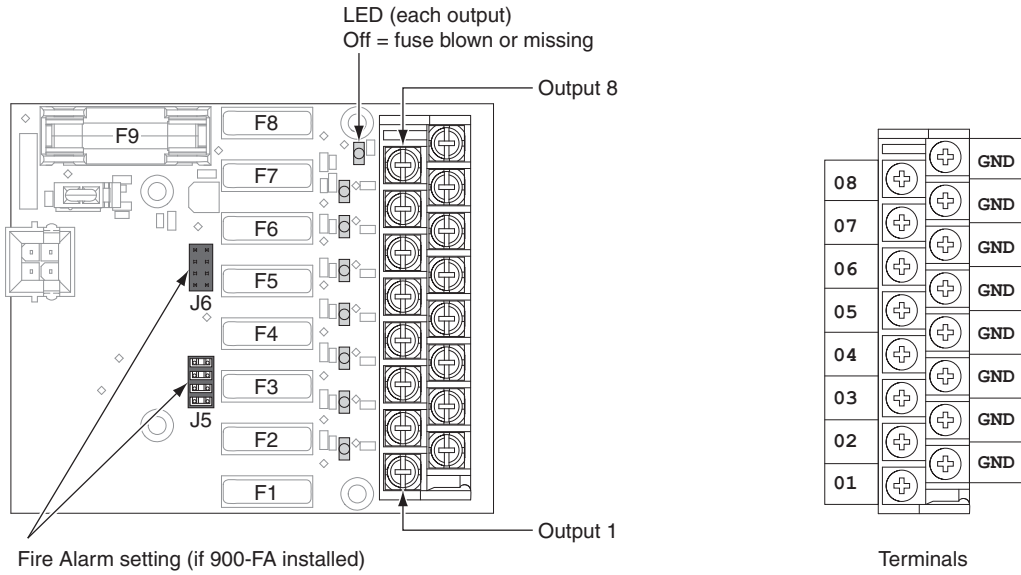| Each Output	• Rated for supply maximum • 12/24VDC when AC powered • 9.6-13.2VDC or 19.2-26.4VDC when battery powered • Maximum load cannot exceed power supply ratings or 6A for outputs combined	
Board Input Power	Board requires 0.045A max. of power supply output current to operate	
Temperature Range	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)	
F1 - F8	32V, 7.5A, ATO blade style	⚠ **CAUTION:**
F9 Main Fuse	300V, 15A, 3AG style	**For protection against risk of fire, replace fuse with same type and rating**

Function: Provides 8 independently-fused outputs.

LED (each output)
Off = fuse blown or missing

Output 8

Output 1

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
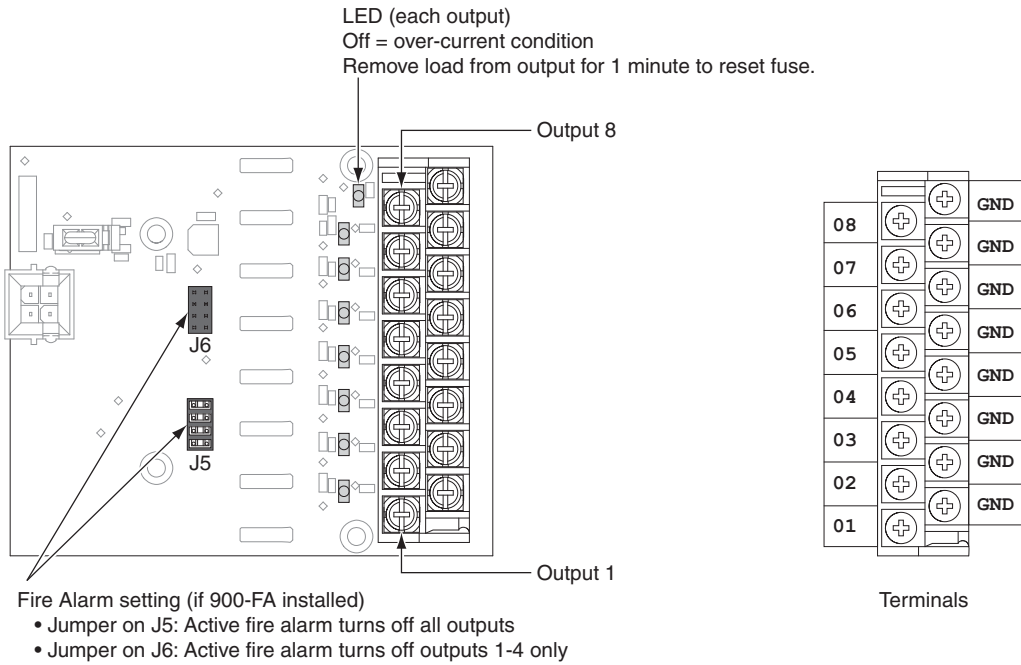
Terminals

Refer to Wire Table
(page 4)

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

900-8P

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

Output 1

J6

J5

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

Terminals

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