

# PS902



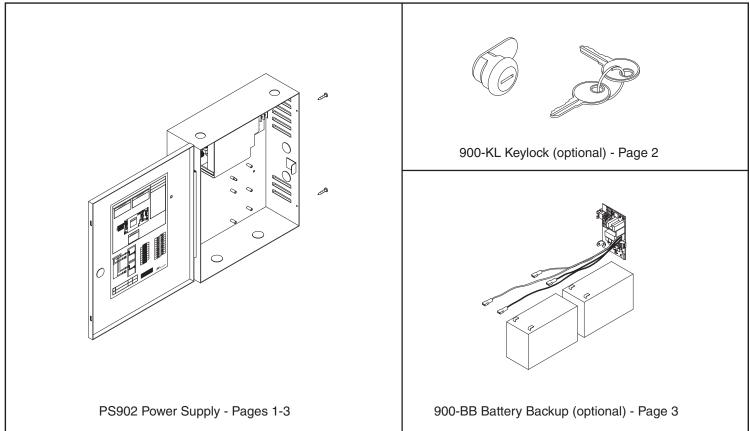
Installation Instructions

Power Supply

# 🛦 DANGER 🛦

To avoid risk of electric shock, turn off AC power before installing or servicing PS902 power supply

## These instructions cover the following parts:



## PS902 Power Supply Specifications:

Input	120/240 VAC, 1.1 A, 50/60Hz, High Voltage Class 1 Wiring Required	
Output	2 Amp DC @ 12/24 VDC	
Enclosure	14" H x 12" W x 4" D (8 knockouts, 1/2" or 3/4")	
Temperature Range	32°-120° F (0°- 49° C)	
Fuse	F1, T3.15A 250VAC	CAUTION Â
		For protection against risk of fire, replace fuse with same type and rating
Compliance	UL 294, ULC-S318, RoHS, & FCC Part 15, Class 2 Output	
Compatible Boards	900-2RS	INST. INSTRUCTIONS - 24125007
(Optional, 1 board maximum)	900-2Q	INST. INSTRUCTIONS - 44487098
	900-4R	INST. INSTRUCTIONS - 44487106
	900-4RL	INST. INSTRUCTIONS - 44487080
	900-8F	INST. INSTRUCTIONS - 44487106
	900-8P	INST. INSTRUCTIONS - 44487106
Fire Alarm Input Board (Optional)	900-FA	INST. INSTRUCTIONS - 44487072
Battery Backup Board (Optional)	900-BB	INST. INSTRUCTIONS - 44487064

#### Mounting notes

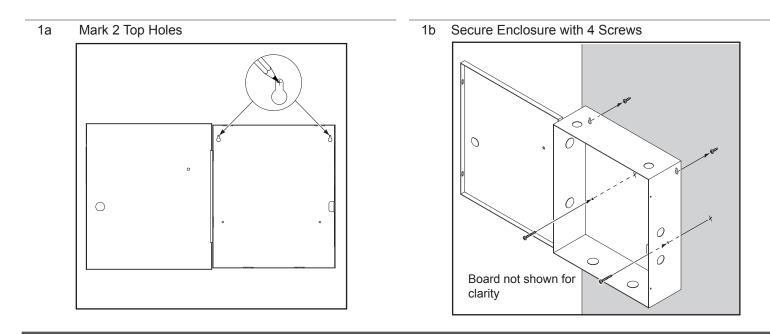
The PS902 must be installed in accordance with the article 760 of the National Electrical Code or NFPA 72, Canadian Electrical Code, or any other applicable codes.

Install the PS902 indoors within the protected premises.

Check national and local codes for additional installation requirements.

Enclosure must be firmly mounted to a solid surface using hardware suitable for the surface.

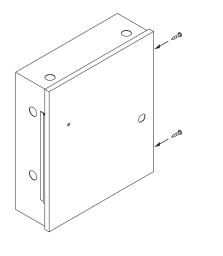
#### Mount power supply



#### 2 Secure enclosure door

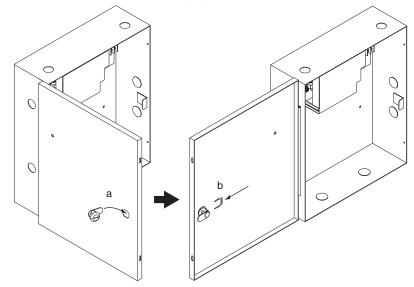
#### If No Keylock

Enclosure will be secured with 2 screws as shown (done as last step)

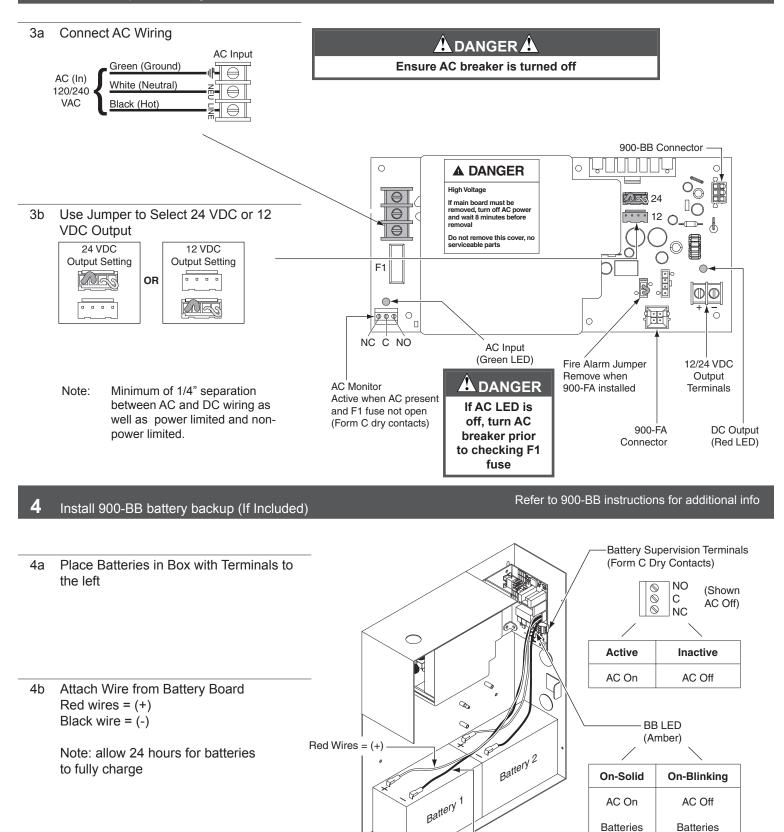


#### If Keylock

। OR Remove knockout and insert key cylinder, then slide in clip



## **3** PS902 setup and testing



Supplying

Power

Charging

Black Wires = (-)

#### 5 Turn on AC breaker to test power supply

- Verify AC LED is On = GREEN
- Verify DC LED is On = RED
- Verify BB LED (if applicable) is On = AMBER

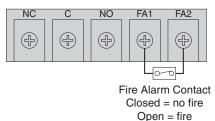




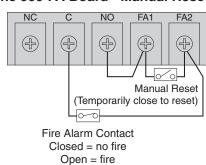
Fire Alarm Input

Supervision Output Contacts Shown FA Active (open)

## One 900-FA Board - Automatic Reset



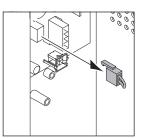
#### **One 900-FA Board - Manual Reset**



Refer to 900-FA instructions for additional info

Note: If FA is installed on PS902:

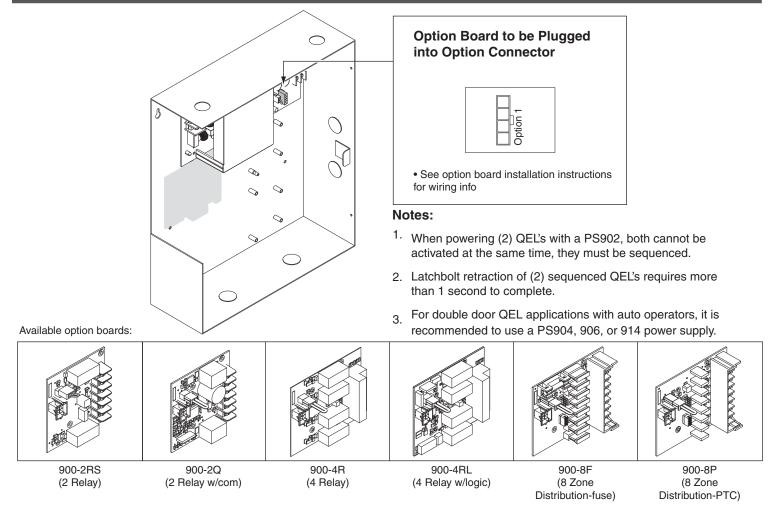
- Verify jumper J13 is removed
- Power will be removed from PS902 when fire alarm is active



Refer to appropriate instructions if any board

shown below is factory-installed

**Option Boards** 



NOTE: When installation is complete, secure enclosure door with screws (provided) or keylock

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

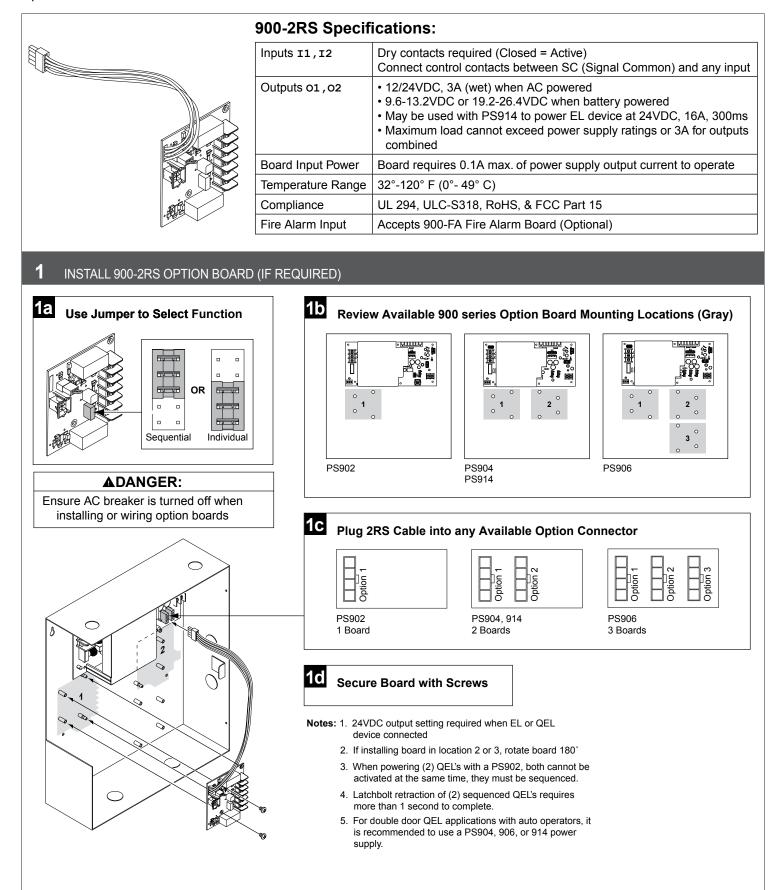


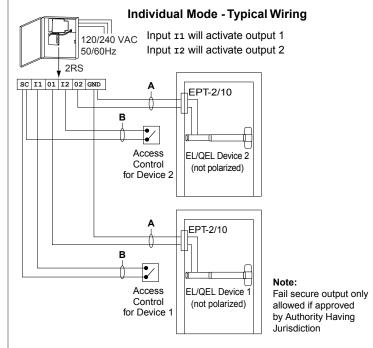
**Option Board** 

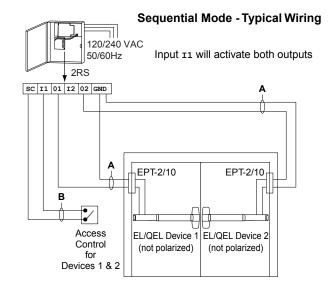
900-2RS



Installation Instructions







#### Wire Table

	Wire Ga (AWG)	Distance (max. ft.)*	
Device Type		Output A	Input B
EL Exit Device with EPT or Door Loop	12	200	
(PS914 Power Supply Required)	14	100	
EL Exit Device with Electric Hinge/Pivot	12	150	
(PS914 Power Supply Required)	14	75	
QEL Exit Device with EPT or Electric Hinge	12	800	
	14	500	
	16	320	
	18	200	
Other Low Current Devices	14	500	
(.5 Amps DC)	18	200	
Other Low Current Devices	14	850	
(.3 Amps DC)	18	340	
Access Control Device	18		1200

\* Wiring allows for 10% voltage drop at device current at 12 or 24VDC Max. ft = one way distance between power supply and device







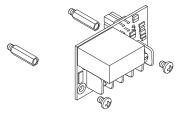
# 900-FA Fire Alarm Input



Installation Instructions

900-8P (8 Zone,

Distribution-PTC)

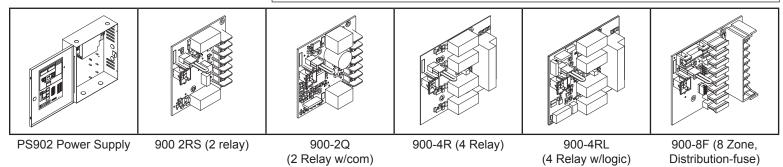


The 900-FA Fire Alarm board can be installed on any one of the following power supply or option boards (refer to installation instructions):

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

WARNING

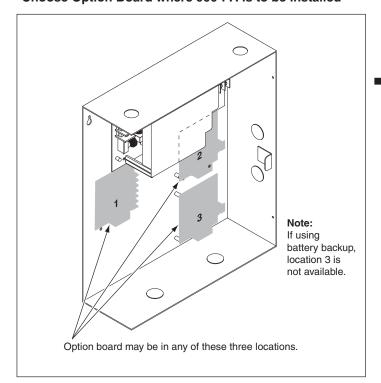
To avoid risk of electric shock, turn off AC power to power supply before installing or wiring 900-FA board. In the event a fire alarm is active, this board will remove power from the PS902 DC output and any 900-series option board output.



- 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

### 1 a If installing to option board

Choose Option Board where 900-FA is to be Installed



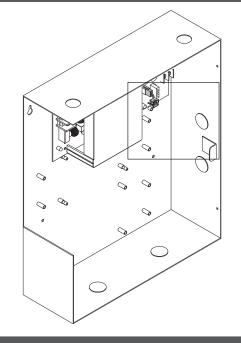
Remove Jumper from Option Board

Install 900-FA to Option Board

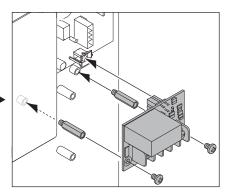
Image: Comparison of the second secon

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### 1 b If installing to PS902 main board



**Remove Jumper**  $\overline{}$ 



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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

