PS902

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

These instructions cover the following parts:
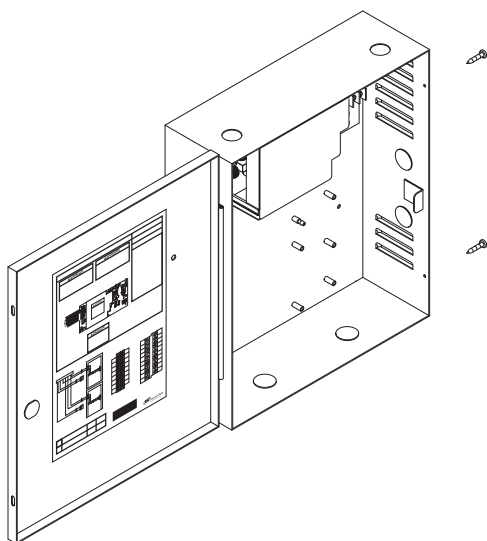
PS902 Power Supply - Pages 1-3
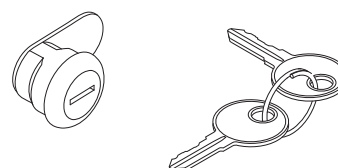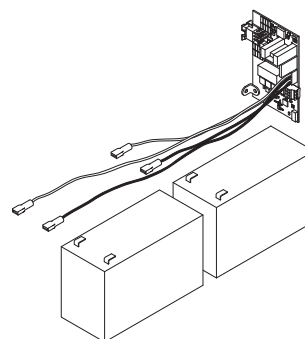

900-KL Keylock (optional) - Page 2

900-BB Battery Backup (optional) - Page 3

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** ⚠ **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 (Optional, 1 board maximum)	900-2RS	INST. INSTRUCTIONS - 24125007
	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.
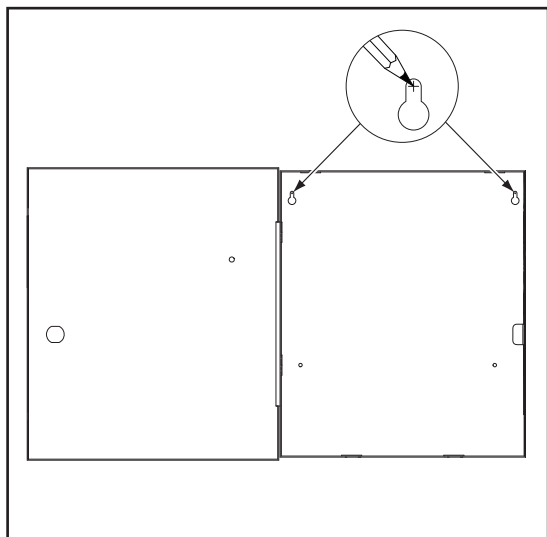
Install the PS902 indoors within the protected premises.

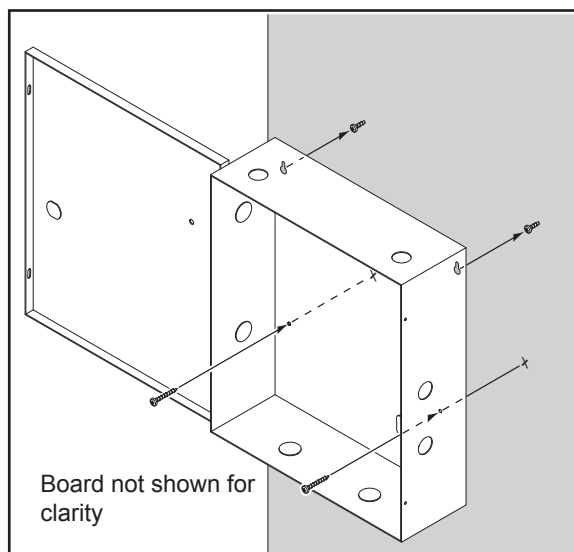Check national and local codes for additional installation requirements.

Enclosure must be firmly mounted to a solid surface using hardware suitable for the surface.
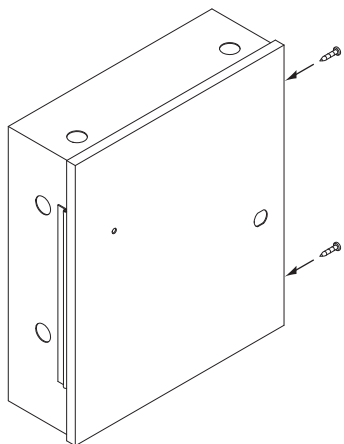
1   Mount power supply

1a   Mark 2 Top Holes

1b   Secure Enclosure with 4 Screws

Board not shown for clarity

2   Secure enclosure door

If No Keylock
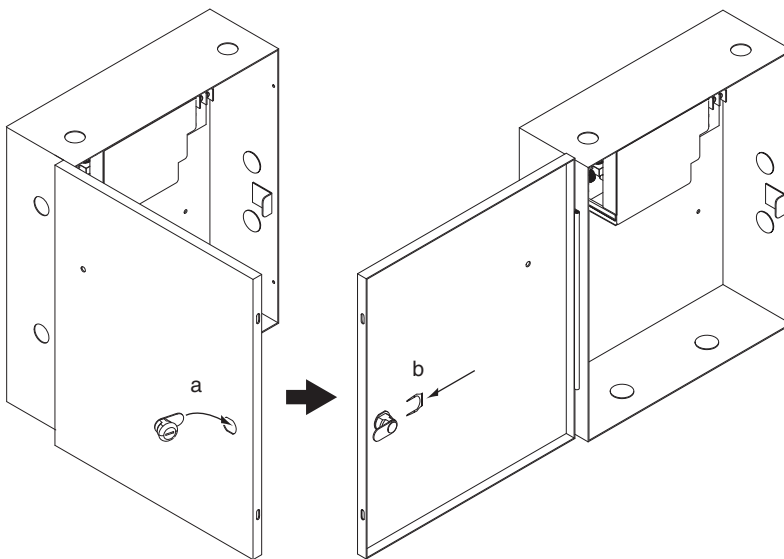
Enclosure will be secured with 2 screws as shown (done as last step)

OR

If Keylock

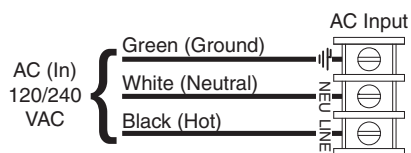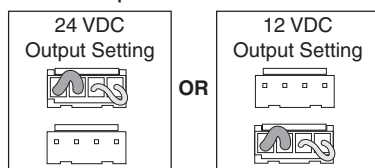Remove knockout and insert key cylinder, then slide in clip

a

b

3a Connect AC Wiring
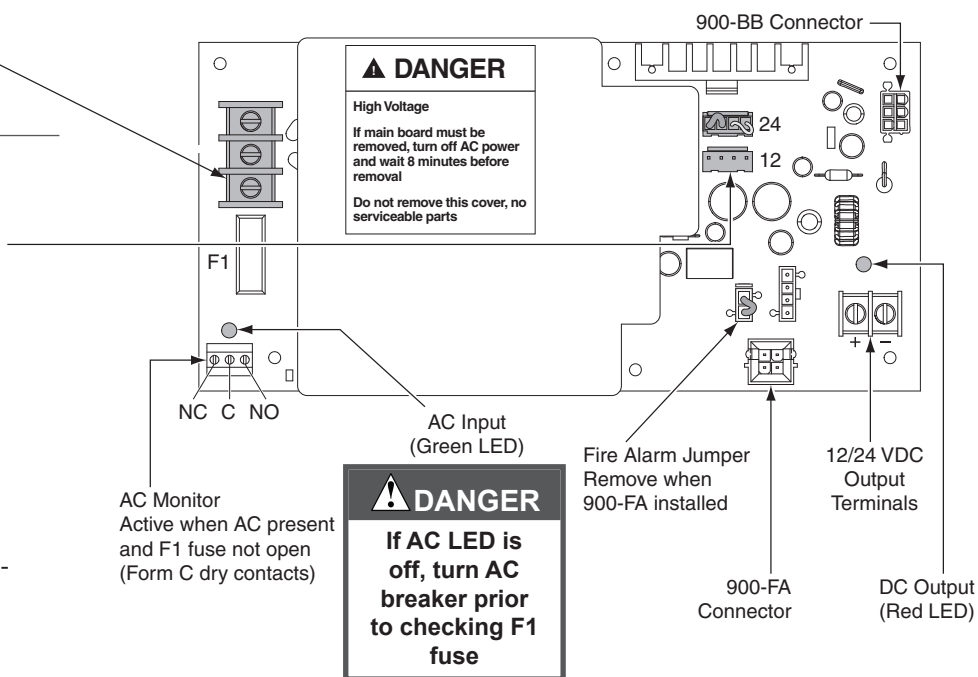
AC Input

AC (In) 120/240 VAC
- Green (Ground)
- White (Neutral)
- Black (Hot)

NEU LINE

⚠ **DANGER** ⚠

Ensure AC breaker is turned off

900-BB Connector

⚠ **DANGER**

High Voltage

If main board must be removed, turn off AC power and wait 8 minutes before removal

Do not remove this cover, no serviceable parts

24

12

3b Use Jumper to Select 24 VDC or 12 VDC Output

24 VDC Output Setting		12 VDC Output Setting
	OR	

F1

NC C NO

AC Input (Green LED)

AC Monitor Active when AC present and F1 fuse not open (Form C dry contacts)

⚠ **DANGER**

If AC LED is off, turn AC breaker prior to checking F1 fuse

Fire Alarm Jumper Remove when 900-FA installed

+ −

12/24 VDC Output Terminals

900-FA Connector

DC Output (Red LED)

Note: Minimum of 1/4" separation between AC and DC wiring as well as power limited and non-power limited.

Refer to 900-BB instructions for additional info

4a Place Batteries in Box with Terminals to the left

Battery Supervision Terminals (Form C Dry Contacts)

NO
C
NC

(Shown AC Off)

Active	**Inactive**
AC On	AC Off

4b Attach Wire from Battery Board
Red wires = (+)
Black wire = (-)

Note: allow 24 hours for batteries to fully charge

Red Wires = (+)

Battery 2

Battery 1

Black Wires = (-)

BB LED (Amber)

On-Solid	**On-Blinking**
AC On	AC Off
Batteries Charging	Batteries Supplying Power
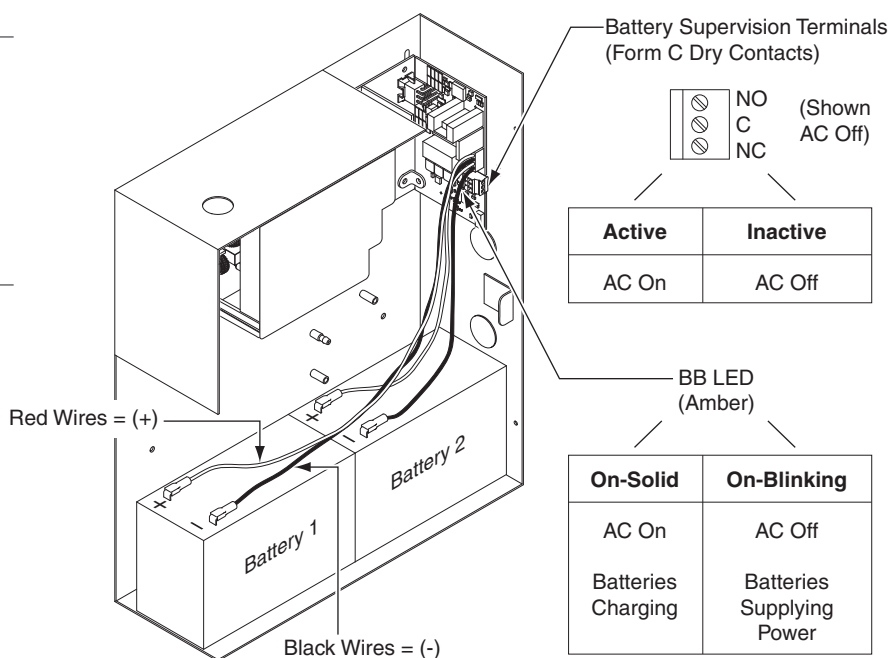
- Verify AC LED is On = GREEN
- Verify DC LED is On = RED
- Verify BB LED (if applicable) is On = AMBER

Terminal Definitions

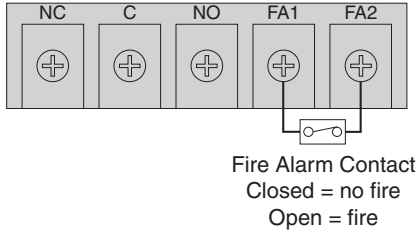| NC	C	NO	FA1	FA2

Supervision Output
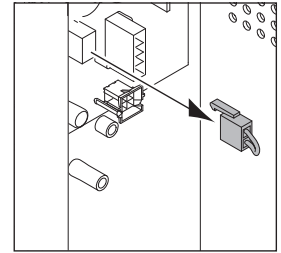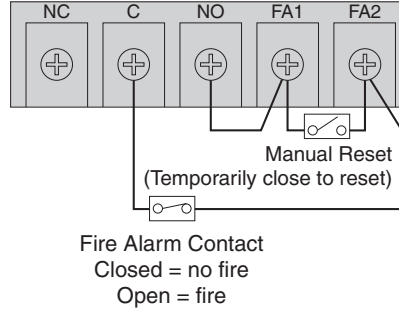Contacts Shown FA Active (open)
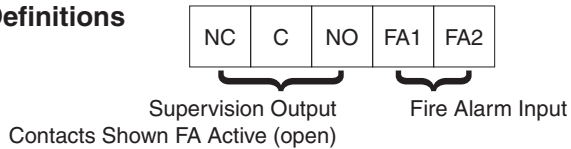
Fire Alarm Input

Note: If FA is installed on PS902:

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

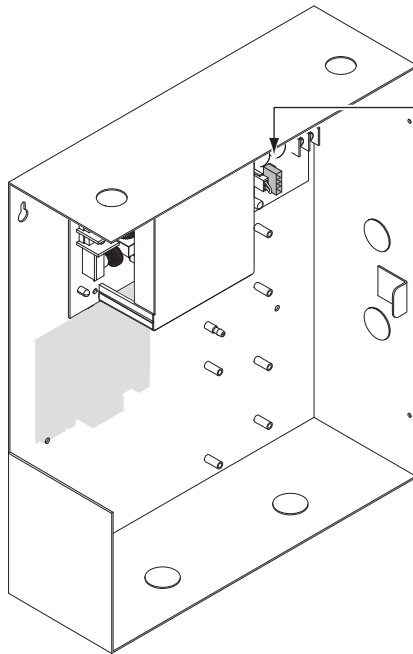### One 900-FA Board - Automatic Reset

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

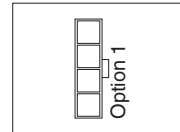
Option Boards

Refer to appropriate instructions if any board shown below is factory-installed
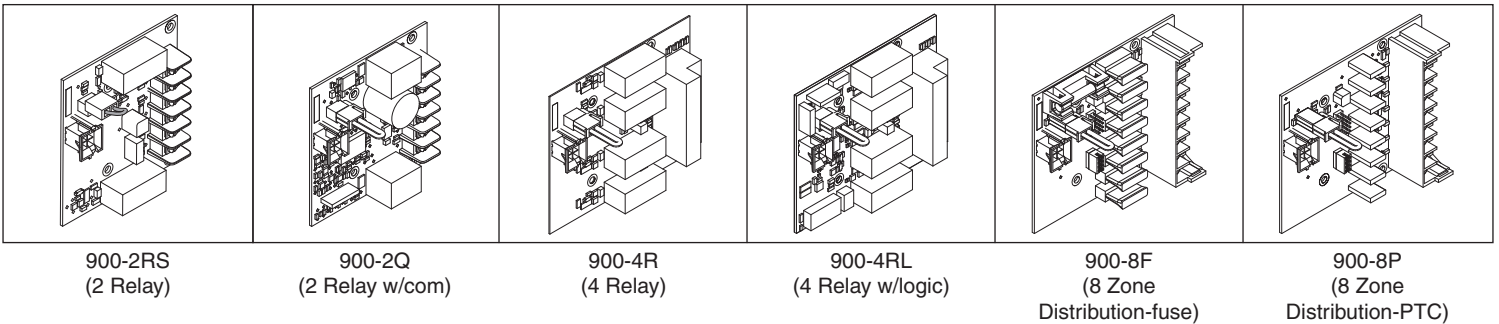
Option Board to be Plugged into Option Connector

Option 1

• See option board installation instructions for wiring info

Notes:

1. When powering (2) QEL's with a PS902, both cannot be activated at the same time, they must be sequenced.

2. Latchbolt retraction of (2) sequenced QEL's requires more than 1 second to complete.

3. For double door QEL applications with auto operators, it is recommended to use a PS904, 906, or 914 power supply.

Available option boards:

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)

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

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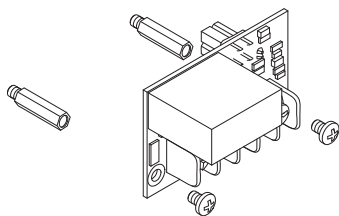
1-877-671-7011   www.allegion.com/us

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900-FA Fire Alarm Input

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.
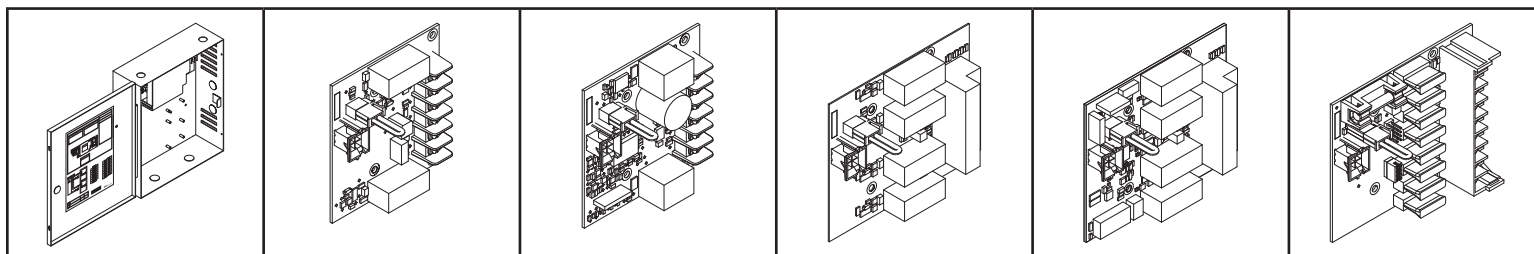
PS902 Power Supply

900 2RS (2 relay)
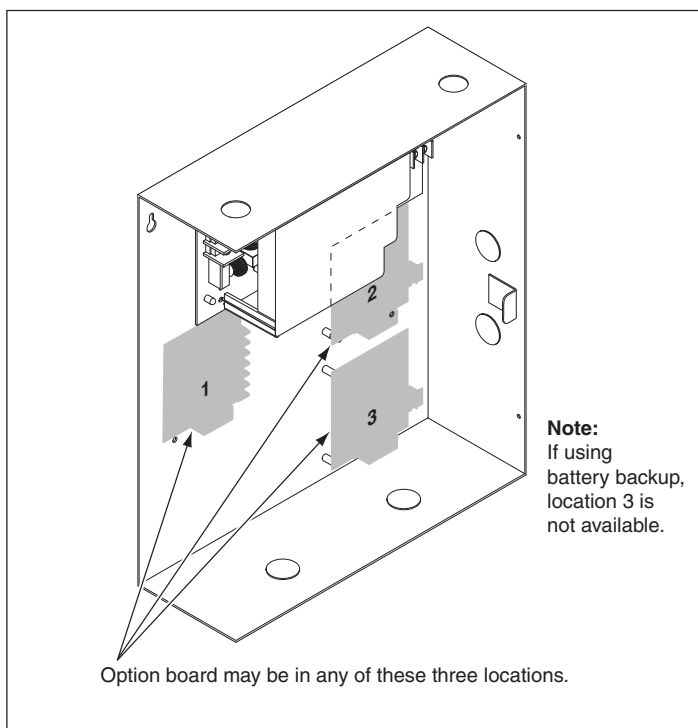
900-2Q (2 Relay w/com)

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**
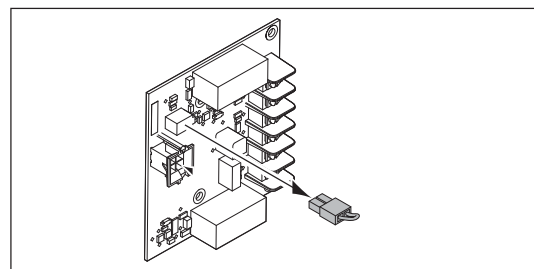
1a If installing to option board

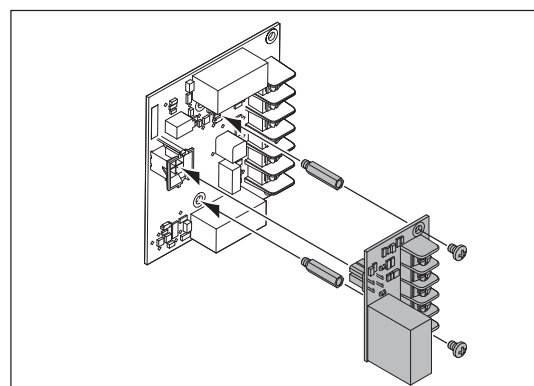**Choose Option Board where 900-FA is to be Installed**

Remove Jumper from Option Board

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.
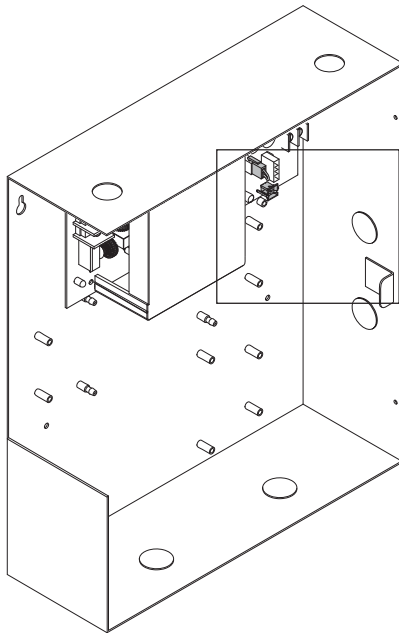
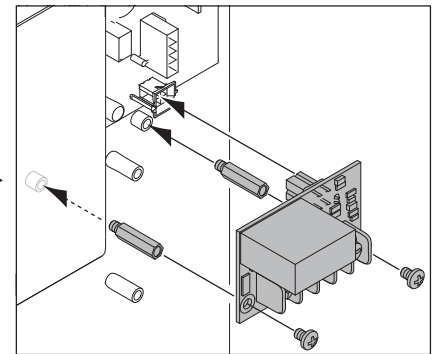**Remove Jumper**
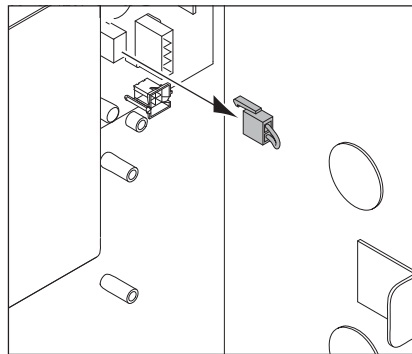
Install 900-FA Here

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
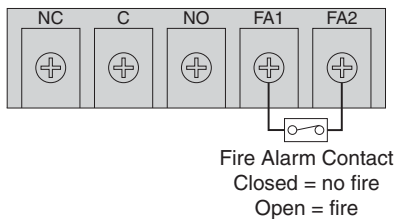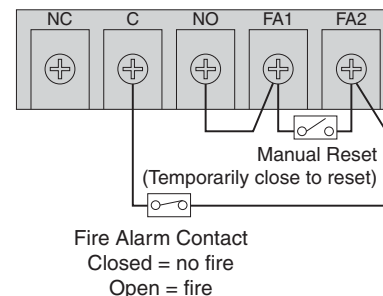for a fail safe operation.

2 900-FA wiring

Terminal Definitions

NC	C	NO	FA1	FA2

Supervision Output
Contacts Shown FA Active (open)

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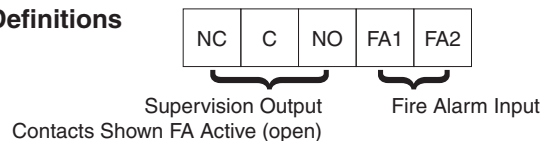
Note: Use 18 gauge wire for all wiring. Wire
length dependent on physical layout.

One 900-FA Board - Automatic Reset
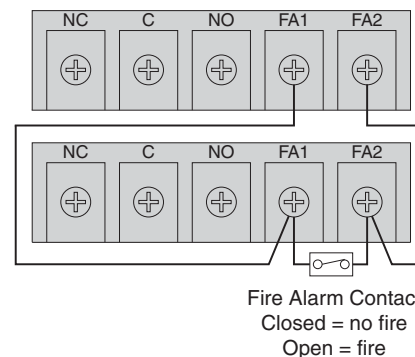
NC	C	NO	FA1	FA2

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
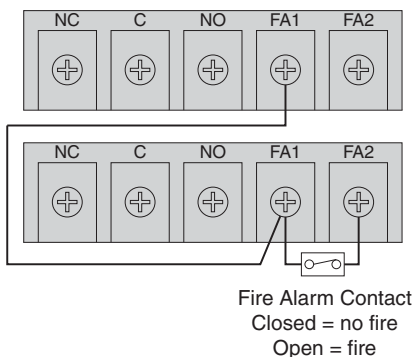
Two 900-FA Boards on two power supplies
Automatic Reset

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