



24125007

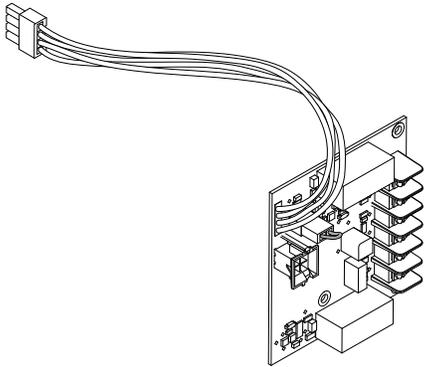
900-2RS



Option Board

Installation Instructions

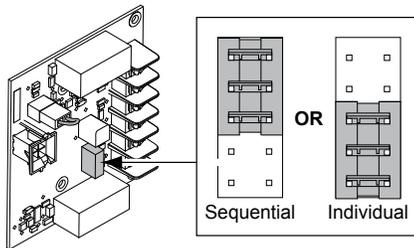
900-2RS Specifications:



Inputs I1, I2	Dry contacts required (Closed = Active) Connect control contacts between SC (Signal Common) and any input
Outputs o1, o2	<ul style="list-style-type: none"> • 12/24VDC, 3A (wet) when AC powered • 9.6-13.2VDC or 19.2-26.4VDC when battery powered • May be used with PS914 to power EL device at 24VDC, 16A, 300ms • Maximum load cannot exceed power supply ratings or 3A for outputs combined
Board Input Power	Board requires 0.1A 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)

1 INSTALL 900-2RS OPTION BOARD (IF REQUIRED)

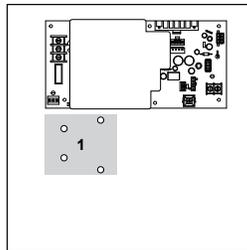
1a Use Jumper to Select Function



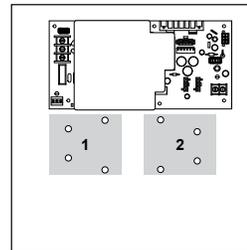
▲DANGER:

Ensure AC breaker is turned off when installing or wiring option boards

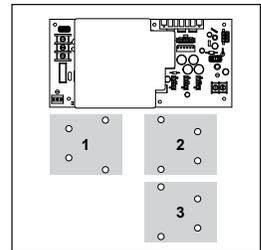
1b Review Available 900 series Option Board Mounting Locations (Gray)



PS902

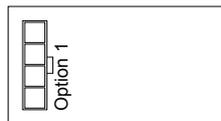


PS904
PS914

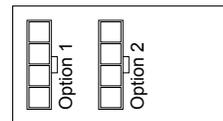


PS906

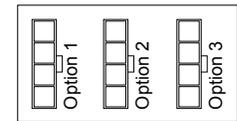
1c Plug 2RS Cable into any Available Option Connector



PS902
1 Board

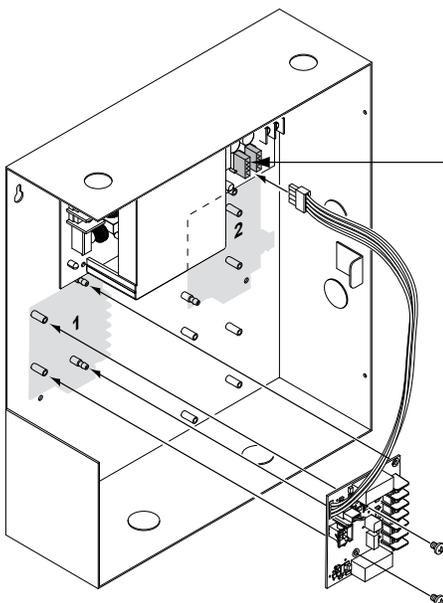


PS904, 914
2 Boards



PS906
3 Boards

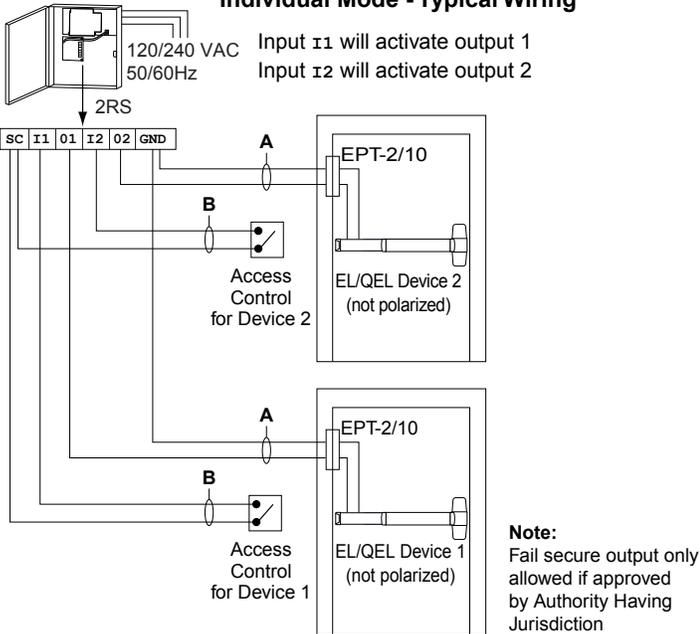
1d Secure Board with Screws



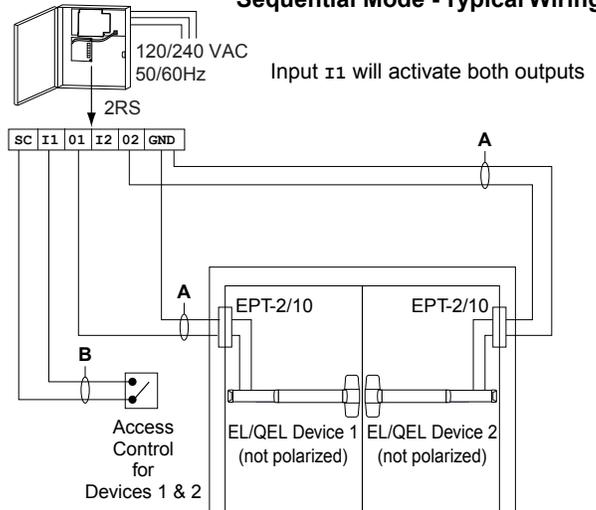
- Notes:**
1. 24VDC output setting required when EL or QEL device connected
 2. If installing board in location 2 or 3, rotate board 180°
 3. When powering (2) QELs with a PS902, both cannot be activated at the same time, they must be sequenced.
 4. Latchbolt retraction of (2) sequenced QELs requires more than 1 second to complete.
 5. For double door QEL applications with auto operators, it is recommended to use a PS904, 906, or 914 power supply.

2 CONNECT WIRING TO 900-2RS OPTION BOARD

Individual Mode - Typical Wiring



Sequential Mode - Typical Wiring



Wire Table

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

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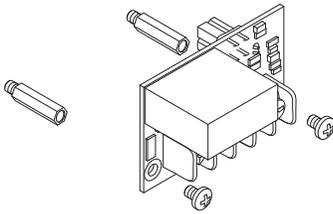


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900-FA Fire Alarm Input



Installation Instructions

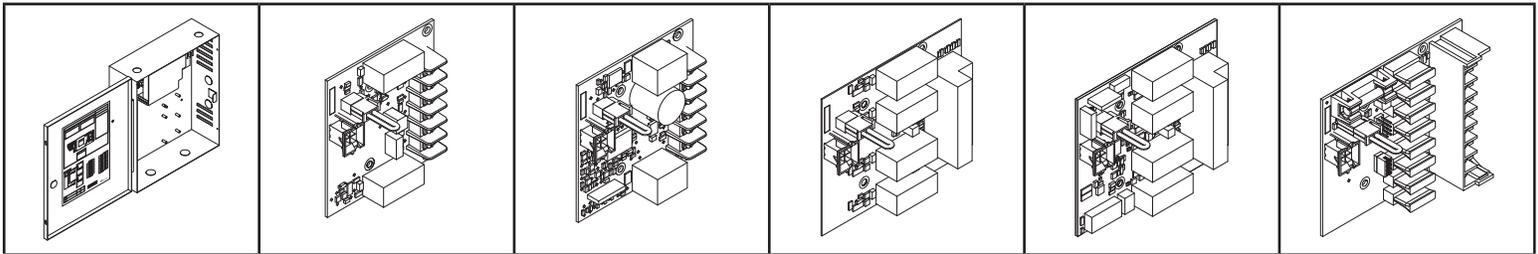


Input (Fire Alarm)	Dry contacts required (Closed = no fire alarm) Connect control contacts between FA1 and FA2
Output (Supervision)	30VDC, 1A resistive dry contact
Board Input Power	Board requires 0.05A max. of power supply output current to operate
Temperature Range	32°-120° F (0°- 49° C)
Compliance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

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)

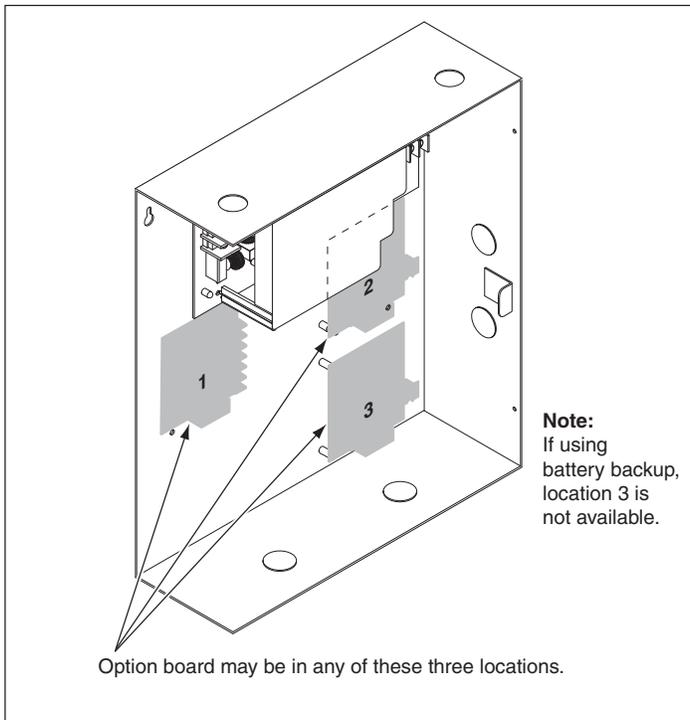
900-4RL
(4 Relay w/logic)

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

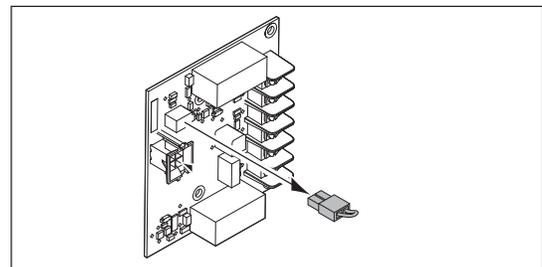
- If 900-FA was factory installed, go to step 2
- If installing to option board, go to 1a
- If installing to PS902 main board, go to 1b

1a If installing to option board

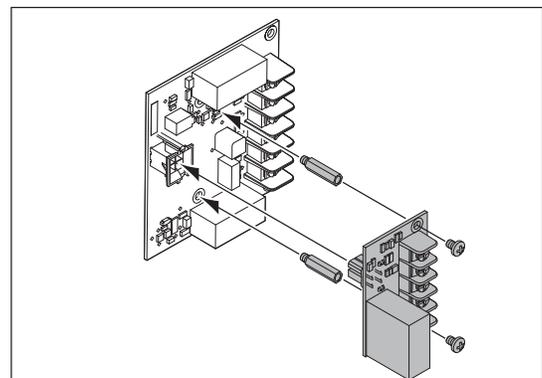
Choose Option Board where 900-FA is to be Installed



Remove Jumper from Option Board



Install 900-FA to Option Board

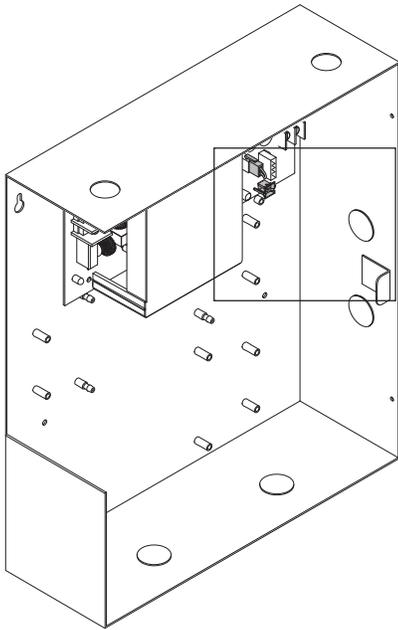


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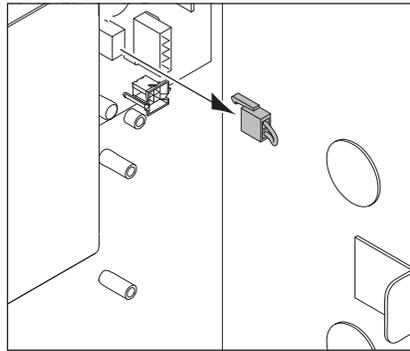
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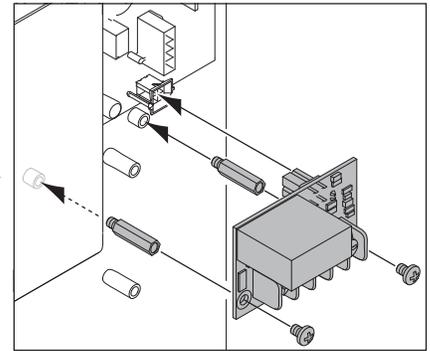
1b If installing to PS902 main board



Remove Jumper



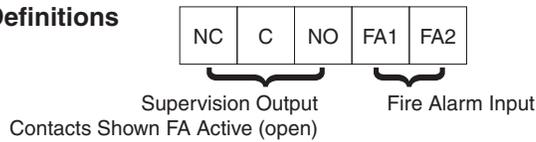
Install 900-FA Here



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.

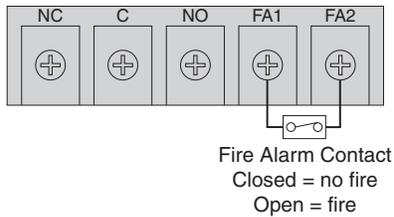
2 900-FA wiring

Terminal Definitions

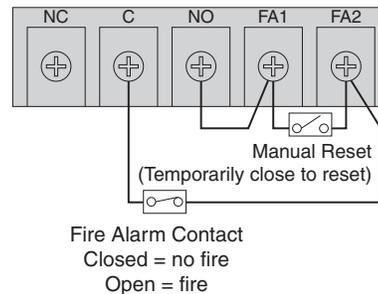


Note: Use 18 gauge wire for all wiring. Wire length dependent on physical layout.

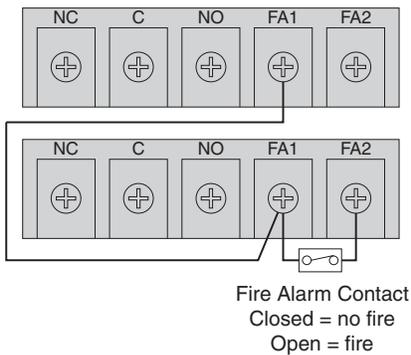
One 900-FA Board - Automatic Reset



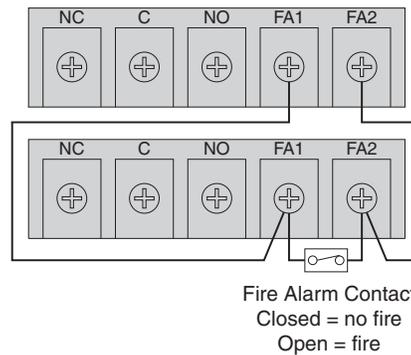
One 900-FA Board - Manual Reset



Two 900-FA Boards on one power supply Automatic Reset



Two 900-FA Boards on two power supplies Automatic Reset



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