These instructions cover the following parts:

- PS914 Power Supply
- 900-KL Keylock (optional)
- 900-BB Battery Backup (optional)
- 900-2RS (optional)

PS914 Power Supply Specifications:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>120/240 VAC, 1.4 A, 50/60Hz, High Voltage Class 1 Wiring Required</td>
</tr>
<tr>
<td>Output</td>
<td>4 Amp DC @ 12/24 VDC, May be used to power Von Duprin &amp; Falcon EL device at 24VDC, 16A, 300ms</td>
</tr>
<tr>
<td>Enclosure</td>
<td>14&quot; H x 12&quot; W x 4&quot; D (8 knockouts, 1/2&quot; or 3/4&quot; )</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>32°-120° F (0°-49° C)</td>
</tr>
<tr>
<td>Fuse</td>
<td>F1, T6.3A 250 VAC</td>
</tr>
<tr>
<td>Compliance</td>
<td>UL 294, ULC-S318, RoHS, &amp; FCC Part 15, Class 2 Output</td>
</tr>
<tr>
<td>Compatible Boards (Optional, 2 boards maximum)</td>
<td>900-2RS, 900-2Q, 900-4R, 900-4RL, 900-8F, 900-8P</td>
</tr>
<tr>
<td>Fire Alarm Input Board (Optional)</td>
<td>900-FA (Requires one option board above)</td>
</tr>
<tr>
<td>Battery Backup Board (Optional)</td>
<td>900-BB</td>
</tr>
<tr>
<td>AC Monitor Output</td>
<td>Form C Contacts, 30 VDC, 1 Amp, Resistive Load</td>
</tr>
<tr>
<td>900-2RS Specifications:</td>
<td></td>
</tr>
<tr>
<td>Inputs I1, I2</td>
<td>Dry contacts required (Closed = Active)</td>
</tr>
<tr>
<td>Connect control contacts between SC (Signal Common) and any input</td>
<td></td>
</tr>
<tr>
<td>Outputs o1, o2</td>
<td>12/24VDC, 3A (wet) when AC powered</td>
</tr>
<tr>
<td>9.6-13.2VDC or 19.2-26.4VDC when battery powered</td>
<td></td>
</tr>
<tr>
<td>May be used with PS914 to power EL device at 24VDC, 16A, 300ms</td>
<td></td>
</tr>
<tr>
<td>Maximum load cannot exceed power supply ratings or 3A for outputs combined</td>
<td></td>
</tr>
<tr>
<td>Board Input Power</td>
<td>Board requires 0.1A max. of power supply output current to operate</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>32°-120° F (0°-49° C)</td>
</tr>
<tr>
<td>Compliance</td>
<td>UL 294, ULC-S318, RoHS, &amp; FCC Part 15</td>
</tr>
<tr>
<td>Fire Alarm Input</td>
<td>Accepts 900-FA Fire Alarm Board (Optional)</td>
</tr>
</tbody>
</table>
MOUNTING NOTES

The PS914 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 PS914 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

2 SECURE ENCLOSURE DOOR

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

If Keylock
Remove knockout and insert key cylinder, then slide in clip
3 PS914 SETUP AND TESTING

3a Connect AC Wiring

![AC Input Diagram]

**AC Input**
- **Green (Ground)**
- **White (Neutral)**
- **Black (Hot)**

**DANGER:**
Ensure AC Breaker is Turned Off

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

**NC** C **NO**

**24 VDC Output Setting**

**12 VDC Output Setting**

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

**Connect AC Wiring**
- Green (Ground)
- White (Neutral)
- Black (Hot)

**Minimum of 1/4” separation between AC and DC wiring as well as power limited and non-power limited.**

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

![Jumper Diagram]

**24 VDC Output Setting**

**12 VDC Output Setting**

**DANGER:**
If main board must be removed, turn off AC power and wait 8 minutes before removal. Do not remove this cover, no serviceable parts

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

**NC** C **NO**

**AC Input (Green LED)**
**DC Output (Red LED)**

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

**Use Jumper to Select:**
- 24 VDC Output Setting
- 12 VDC Output Setting

**Use Jumper to Select:**
- 24 VDC Output Setting
- 12 VDC Output Setting

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

4 INSTALL 900-BB BATTERY BACKUP (IF INCLUDED)

4a Place Batteries in Box with Terminals to the Left

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

**Note:**
Allow 24 hours for batteries to fully charge

**Refer to 900-BB instructions for additional info**

**Battery Supervision Terminals (Form C Dry Contacts)**
- **Active**
- **Inactive**
  - **AC On**
  - **AC Off**

**BB LED (Amber)**
- **On-Solid**
- **On-Blinking**
  - **AC On**
  - **AC Off**
  - **Batteries Charging**
  - **Batteries Supplying Power**

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

6a Use Jumper to Select Function

Sequential or Individual

6b Plug 2RS Cable into any Available Option Connector

6c Secure Board with Screws

Note: 24VDC output setting required when EL device connected

If installing board in location 2, rotate board 180°

7 CONNECT Wiring TO 900-2RS OPTION BOARD

Individual Mode - Typical Wiring

Input I1 will activate output 1
Input I2 will activate output 2

Sequential Mode - Typical Wiring

Input I1 will activate both outputs

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

8 IF PS-914 HAS OTHER OPTION BOARDS, SEE THEIR INSTRUCTIONS

8 IF PS-914 HAS OTHER OPTION BOARDS, SEE THEIR INSTRUCTIONS

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

Wire table (suggested maximum)

<table>
<thead>
<tr>
<th>Wire Ga (AWG)</th>
<th>Device Current (Amps DC)</th>
<th>Output* (max. ft)</th>
<th>Input (max. ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>0.3</td>
<td>850</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.5</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>0.3</td>
<td>340</td>
<td>1200</td>
</tr>
<tr>
<td></td>
<td>0.5</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Using EL device with EPT or Door Loop (PS914 required)</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Using EL device with Electric Hinge/Pivot (PS914 required)</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Using EL device with Electric Hinge/Pivot (PS914 required)</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>75</td>
<td></td>
</tr>
</tbody>
</table>

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

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

NOTE: WHEN INSTALLATION IS COMPLETE, SECURE ENCLOSURE DOOR WITH SCREWS OR KEYLOCK
900-4RL Specifications:

<table>
<thead>
<tr>
<th>Inputs I1–I4</th>
<th>Dry contacts required (Closed = Active) Connect control contacts between SC (Signal Common) and any input</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outputs O1–O4</td>
<td>• 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 • May be used with PS914 to power EL device at 24VDC, 16A, 300ms • Maximum load cannot exceed power supply ratings or 6A for outputs combined</td>
</tr>
<tr>
<td>Board Input Power</td>
<td>Board requires 0.18A max. of power supply output current to operate</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>32°-120°F (0°- 49° C)</td>
</tr>
<tr>
<td>Compliance</td>
<td>UL 294, ULC-S318, RoHS, &amp; FCC Part 15</td>
</tr>
<tr>
<td>Fire Alarm Input</td>
<td>Accepts 900-FA Fire Alarm Board (Optional)</td>
</tr>
</tbody>
</table>

1 INSTALL 4RL BOARD(S) INTO POWER SUPPLY

1a Review Available 900-4RL Mounting Locations (Gray)

Refer to installation instructions for compatible supply models - PS902, PS904, PS906, and PS914.

1b Plug 4RL Cable into any Available Option Connector

1c Secure Board(s) with Screws

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

Note:
For UL listed installations, use only UL listed locks and strikes
2 CHOOSE FUNCTION OF 900-4RL BOARD BY SETTING SW2 DIP SWITCHES

- **4TD** Four Zone Controller Function (4TD): Controls up to four inputs and four outputs with time delay. This is the default setting. Function LED will blink one time every 5 seconds.
- **AO** Auto Operator Function (AO): Coordinates the unlocking of one or two zones with the signaling of an auto operator. Function LED will blink two times every 5 seconds.
- **SI** Security Interlock Function (SI): Controls multi-door interlocks. Two through six door systems are possible (additional boards required for three to six doors). Function LED will blink three times every 5 seconds.

3 TO COMPLETE CONFIGURATION AND WIRING, GO TO APPROPRIATE SECTION

For 4TD: Go to pages 3-4
For AO: Go to pages 5-6
For SI: Go to pages 7-8
Basic Troubleshooting: Go to page 8

(OPTIONAL) DRY CONTACT CONFIGURATION

**Powered Outputs (Default)**
By default, all outputs provide 12/24VDC

- Jumper factory installed

**Dry Contact Outputs (Optional)**
For dry contact outputs, remove appropriate jumpers and rotate 90°, then reinstall (Zone 1 - Zone 4)

- Jumper rotated 90°
**Summary of Operation**

- Output turns “ON” when input is activated (closed).
- Time delay begins when input is released (opened).
- Locking Device output will remain “ON” during time delay.
- If I1–I4 inputs are wired together, outputs will sequence.

**4TD - SET TIME DELAY USING SW1 DIP SWITCHES**

DIP switches on SW1 can be turned “ON” by moving them in the direction that the arrow is pointing. Switches below shown in “OFF” position.

<table>
<thead>
<tr>
<th>SWITCH NUMBER</th>
<th>4TD DIP SWITCH DEFINITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable Time Delay Allows you to choose which outputs will have the below time delay.</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Turn “ON” to enable time delay for Locking Device 1</td>
</tr>
<tr>
<td>2</td>
<td>Turn “ON” to enable time delay for Locking Device 2</td>
</tr>
<tr>
<td>3</td>
<td>Turn “ON” to enable time delay for Locking Device 3</td>
</tr>
<tr>
<td>4</td>
<td>Turn “ON” to enable time delay for Locking Device 4</td>
</tr>
</tbody>
</table>

Set Time Delay (0-75 seconds, 5 second increments)

- 0 Sec: Switches 5-8 “OFF”
- 75 Sec: Switches 5-8 “ON”

| 5 | Adds 5 seconds to the time delay when “ON” |
| 6 | Adds 10 seconds to the time delay when “ON” |
| 7 | Adds 20 seconds to the time delay when “ON” |
| 8 | Adds 40 seconds to the time delay when “ON” |

**4TD INPUT / OUTPUT TERMINAL BLOCK DEFINITIONS**

- Input 1: Access Control 1
- Input 2: Access Control 2
- Input 3: Access Control 3
- Input 4: Access Control 4
- Output 1*: Lock 1
- Output 2*: Lock 2
- Output 3*: Lock 3
- Output 4*: Lock 4

*See page 2 for dry contacts
**4TD - WIRING EXAMPLE - FAIL SECURE**

To control EL1 & EL2 with Access Control 1, jumper I1-I2.

To control EL1 - EL4 with Access Control 1, jumper I1-I2-I3-I4.

0-100 ft, use 14 gauge stranded wire.
0-200 ft, use 12 gauge stranded wire.

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

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**4TD - WIRING EXAMPLE - FAIL SAFE**

To control Mag Locks 1 & 2 with Access Control 1, jumper I1-I2.

To control Mag Locks 1 - 4 with Access Control 1, jumper I1-I2-I3-I4.

Refer to Wire Table (page 7)
AO - SET CONFIGURATION USING SW1 SWITCHES

DIP switches on SW1 can be turned “ON” by moving them in the direction that the arrow is pointing. Switches below shown in “OFF” position.

<table>
<thead>
<tr>
<th>SW1 SWITCH NUMBER</th>
<th>AO DIP SWITCH DEFINITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Off</td>
<td>Operator is signaled when latch monitor switch becomes active. Monitor switch required</td>
</tr>
<tr>
<td>1 On, 2 Off</td>
<td>Operator is signaled 0.5 seconds after control switch becomes active. No monitor switch used.</td>
</tr>
<tr>
<td>1 Off, 2 On</td>
<td>Operator is signaled 1.0 seconds after control switch becomes active. No monitor switch used.</td>
</tr>
<tr>
<td>1 On, 2 On</td>
<td>Operator is signaled 1.5 seconds after control switch becomes active. No monitor switch used.</td>
</tr>
<tr>
<td>3</td>
<td>Not used</td>
</tr>
<tr>
<td>4</td>
<td>Turn “OFF” (default) to enable Individual Mode (single doors). Turn “ON” to enable Sequential Mode (double doors).</td>
</tr>
<tr>
<td>5</td>
<td>Adds 2 seconds to the time delay when “ON”</td>
</tr>
<tr>
<td>6</td>
<td>Adds 4 seconds to the time delay when “ON”</td>
</tr>
<tr>
<td>7</td>
<td>Adds 8 seconds to the time delay when “ON”</td>
</tr>
<tr>
<td>8</td>
<td>Adds 16 seconds to the time delay when “ON”</td>
</tr>
</tbody>
</table>

* Time Delay begins when an input is released.

Input 1: Access Control 1
Input 2: Lock Monitor 1
Input 3: Access Control 2
Input 4: Lock Monitor 2
Output 1*: Lock 1
Output 2*: AO Signal 1
Output 3*: Lock 2
Output 4*: AO Signal 2

*See page 2 for dry contacts
AO - WIRING EXAMPLE - TWO SINGLE DOORS

Summary of Operation
For each door, access control input unlocks door.
Latch monitor (LX) triggers auto operator.

Single Door Board Configuration
1. Position jumpers for dry contact for outputs 2 and 4 (see page 2).
2. Turn on switches 5 and 6 on SW1 (6 second time delay).
3. If LX is not used, turn on switch 1 on SW1.

AO - WIRING EXAMPLE - DOUBLE DOORS

Summary of Operation
Access control input unlocks both doors.
Both latch monitors (LX) trigger auto operators.

Double Door Board Configuration
1. Position jumpers for dry contact for outputs 2 and 4 (see page 2).
2. Turn on switches 4, 5, and 6 on SW1 (6 second time delay).
3. If LX is not used, turn on switch 1 on SW1.

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

Refer to Wire Table (page 7)
DIP switches on SW1 can be turned “ON” by moving them in the direction that the arrow is pointing. Switches below shown in “OFF” position.

<table>
<thead>
<tr>
<th>SWITCH NUMBER</th>
<th>SI DIP SWITCH DEFINITIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Turn “ON” to enable time delay for Locking Device 1</td>
</tr>
<tr>
<td>2</td>
<td>Turn “ON” to enable time delay for Locking Device 2</td>
</tr>
<tr>
<td>3</td>
<td>Turn “ON” to remove O2 from interlock (Allows a single independent door)</td>
</tr>
<tr>
<td>4</td>
<td>Turn “ON” for global interlock (interlocks with other SI boards that have this switch “ON”)</td>
</tr>
<tr>
<td>5</td>
<td>Adds 2 seconds to the time delay when “ON”</td>
</tr>
<tr>
<td>6</td>
<td>Adds 4 seconds to the time delay when “ON”</td>
</tr>
<tr>
<td>7</td>
<td>Adds 8 seconds to the time delay when “ON”</td>
</tr>
<tr>
<td>8</td>
<td>Adds 16 seconds to the time delay when “ON”</td>
</tr>
</tbody>
</table>

**SI CONFIGURE SW1 DIP SWITCHES**

**SI INPUT / OUTPUT TERMINAL BLOCK DEFINITIONS**

<table>
<thead>
<tr>
<th>Input 1</th>
<th>Access Control 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input 2</td>
<td>Access Control 2</td>
</tr>
<tr>
<td>Input 3</td>
<td>Lock Monitor 1</td>
</tr>
<tr>
<td>Input 4</td>
<td>Lock Monitor 2</td>
</tr>
<tr>
<td>Output 1*</td>
<td>Lock 1</td>
</tr>
<tr>
<td>Output 2*</td>
<td>Lock 2</td>
</tr>
<tr>
<td>Output 3*</td>
<td>Follows Output 1 by .5 Sec</td>
</tr>
<tr>
<td>Output 4*</td>
<td>Follows Output 2 by .5 Sec</td>
</tr>
</tbody>
</table>

*See page 2 for dry contacts

**GLOBAL INTERLOCK SWITCH SETTING EXAMPLES**

<table>
<thead>
<tr>
<th>SI Board #1</th>
<th>SI Board #2</th>
<th>SI Board #3</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW1-3</td>
<td>SW1-4</td>
<td>SW1-3</td>
<td>SW1-4</td>
</tr>
<tr>
<td>Off</td>
<td>Off</td>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>Off</td>
<td>On</td>
<td>Off</td>
<td>On</td>
</tr>
<tr>
<td>Off</td>
<td>On</td>
<td>On</td>
<td>On</td>
</tr>
</tbody>
</table>

**Wire table (suggested maximum)**

<table>
<thead>
<tr>
<th>Wire Ga (AWG)</th>
<th>Device Current (Amps DC)</th>
<th>Output* (max. ft)</th>
<th>Input (max. ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>0.3</td>
<td>850</td>
<td>1200</td>
</tr>
<tr>
<td></td>
<td>0.5</td>
<td>500</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>0.3</td>
<td>340</td>
<td>1200</td>
</tr>
<tr>
<td></td>
<td>0.5</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Using EL device with EPT or Door Loop (PS914 required)</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Using EL device with Electric Hinge/Pivot (PS914 required)</td>
<td>150</td>
<td></td>
</tr>
</tbody>
</table>

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

Max. ft = one way distance between power supply and device
SI - WIRING EXAMPLE - 2 TO 6 DOOR INTERLOCK, NORMALLY LOCKED

SI Configuration
1. Turn on switches 1, 2, 4, 5, and 6 on SW1.
2. Install 2 doors per SI board.
3. Add up to 2 additional SI boards for a total of 6 door interlock per power supply:
   - PS902 (2 doors maximum)
   - PS904 (4 doors maximum)
   - PS906 (6 doors maximum)

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

Refer to Wire Table (page 7)

BASIC TROUBLESHOOTING FOR ALL FUNCTIONS

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>900-4RL Function LED (yellow) is not blinking, and inputs and outputs are inactive</td>
<td>Verify 900-4RL cable is plugged into an “option” connector on the main board. Check AC wiring and AC breaker. Check PS-900 main board F1 fuse. Use voltmeter to verify 12 VDC or 24 VDC output on PS-900 main board.</td>
</tr>
<tr>
<td>900-4RL Function LED (yellow) is blinking, but inputs and outputs are inactive</td>
<td>If 900-FA option is installed onto 900-4RL, verify fire alarm contacts are closed across FA1 and FA2. If 900-FA option is not installed, then verify jumper wire is installed into FA-JMPR connector on the 4RL board.</td>
</tr>
<tr>
<td>Inputs and outputs behaving incorrectly.</td>
<td>Verify 2-position DIP switch is set for proper function. Watch yellow LED to confirm 4RL function setting. See page 2. (Verify each DIP switch is pushed into its fully-on or fully-off position.) Verify 8-position DIP switch is set properly for your application. If you are unsure of proper settings, contact Technical Services for assistance. (Verify each DIP switch is pushed into its fully-on or fully-off position.) Verify wiring for all input and output hardware is connected to proper terminals. (Reminder: If 900-4RL is mounted in location 1, top terminals will be GND. If 900-4RL mounted in location 2 or 3, top terminals will be SC.)</td>
</tr>
</tbody>
</table>

NOTE: WHEN INSTALLATION IS COMPLETE, SECURE ENCLOSURE DOOR WITH SCREWS OR KEYLOCK
The 900-FA Fire Alarm board can be installed on any one of the following power supply or option boards (refer to installation instructions):

- 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

Option board may be in any of these three locations.

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

--

**DANGER:**

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.
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

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

Fire Alarm Contact
Closed = no fire
Open = fire

Two 900-FA Boards on two power supplies
Automatic Reset

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
Installation Instructions

900-BB Battery Backup

DANGER:
To avoid risk of electric shock, turn off AC power to power supply before installing or wiring 900-BB board.

BATTERY SPECIFICATIONS

<table>
<thead>
<tr>
<th>Battery Life</th>
<th>Model PS906 = 6A @ 24V</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model PS904 = 4A @ 24V</td>
</tr>
<tr>
<td></td>
<td>Model PS902 = 2A @ 24V</td>
</tr>
<tr>
<td></td>
<td>Model PS914 = 4A @ 24V</td>
</tr>
<tr>
<td></td>
<td>Suitable for Canadian Class IV standby power for access control</td>
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</table>

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>12VDC, 7Ah Gel Sealed Rechargeable Battery (2 included)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Year Service Life</td>
<td>-------------------------------------------------------</td>
</tr>
</tbody>
</table>

| Replacement Part Number | Schlage 991280 |

CAUTION:
Charge only Schlage 991280 batteries. Other types may burst, causing personal injury and damage. Observe the proper polarity when connecting the batteries.

Refer to installation instructions for compatible supply models - PS902, PS904, PS906, and PS914.

1 INSTALL 900-BB ONTO MAIN CIRCUIT BOARD AND SECURE WITH SCREW

(PS914 main board shown)
2 INSTALL AND CONNECT BATTERIES

2a Turn On AC Breaker to Energize Power Supply

2b Place Batteries in Box with Terminals to the Left

2c Attach Wires from Battery Board
   Red wires = (+)
   Black wires = (-)

2d Verify That Battery LED is On
   If LED is not on, cycle AC power off and then back on.

Note: Allow 24 hours for batteries to fully charge

WARNING:
Incorrect connection may cause damage to the batteries

NOTE: WHEN INSTALLATION IS COMPLETE, SECURE ENCLOSURE DOOR WITH SCREWS OR KEYLOCK
The 900-FA Fire Alarm board can be installed on any one of the following power supply or option boards (refer to installation instructions):

- 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

- 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)

Remove Jumper from Option Board

Install 900-FA to Option Board

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

Option board may be in any of these three locations.

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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

<table>
<thead>
<tr>
<th>NC</th>
<th>C</th>
<th>NO</th>
<th>FA1</th>
<th>FA2</th>
</tr>
</thead>
</table>

Supervision Output  Contacts Shown FA Active (open)

Fire Alarm Input

One 900-FA Board - Automatic Reset

| NC | C  | NO | FA1 | FA2 |

Fire Alarm Contact
Closed = no fire
Open = fire

Fire Alarm Contact
Closed = no fire
Open = fire

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

Two 900-FA Boards on one power supply
Automatic Reset

| NC | C  | NO | FA1 | FA2 |

Fire Alarm Contact
Closed = no fire
Open = fire

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

Fire Alarm Contact
Closed = no fire
Open = fire

Two 900-FA Boards on two power supplies
Automatic Reset

| NC | C  | NO | FA1 | FA2 |

Fire Alarm Contact
Closed = no fire
Open = fire

Fire Alarm Contact
Closed = no fire
Open = fire

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Battery Life</td>
<td>Model PS906 = 6A @ 24V</td>
</tr>
<tr>
<td></td>
<td>Model PS904 = 4A @ 24V</td>
</tr>
<tr>
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<tr>
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<td>Schlage 991280</td>
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</tbody>
</table>

**DANGER:**

To avoid risk of electric shock, turn off AC power to power supply before installing or wiring 900-BB board.

**CAUTION:**

Charge only Schlage 991280 batteries. Other types may burst, causing personal injury and damage. Observe the proper polarity when connecting the batteries.

Refer to installation instructions for compatible supply models - PS902, PS904, PS906, and PS914.

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⚠️ WARNING:
Incorrect connection may cause damage to the batteries

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