These instructions cover the following parts:

- PS914 Power Supply
  - Pages 1-3
- 900-KL Keylock (optional)
  - Page 2
- 900-BB Battery Backup (optional)
  - Page 3
- 900-2RS (optional)
  - Page 4
  - (2 Zone EL Control - Individual/Sequential)

### PS914 Power Supply Specifications:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input</strong></td>
<td>120/240 VAC, 1.4 A, 50/60Hz, High Voltage Class 1 Wiring Required</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>4 Amp DC @ 12/24 VDC</td>
</tr>
<tr>
<td></td>
<td>May be used to power Von Duprin &amp; Falcon EL device at 24VDC, 16A, 300ms</td>
</tr>
<tr>
<td><strong>Enclosure</strong></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><strong>Temperature Range</strong></td>
<td>32°-120° F (0°- 49° C)</td>
</tr>
<tr>
<td><strong>Fuse</strong></td>
<td>F1, T6.3A</td>
</tr>
<tr>
<td></td>
<td>250 VAC</td>
</tr>
<tr>
<td><strong>Compliance</strong></td>
<td>UL 294, ULC-S318, RoHS, &amp; FCC Part 15, Class 2 Output</td>
</tr>
</tbody>
</table>

### CAUTION

For protection against risk of fire, replace fuse with same type and rating.

### 900-2RS Specifications:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inputs I1, I2</strong></td>
<td>Dry contacts required (Closed = Active)</td>
</tr>
<tr>
<td></td>
<td>Connect control contacts between SC (Signal Common) and any input</td>
</tr>
<tr>
<td><strong>Outputs O1, O2</strong></td>
<td>12/24VDC, 3A (wet) when AC powered</td>
</tr>
<tr>
<td></td>
<td>9.6-13.2VDC or 19.2-26.4VDC when battery powered</td>
</tr>
<tr>
<td></td>
<td>May be used with PS914 to power EL device at 24VDC, 16A, 300ms</td>
</tr>
<tr>
<td></td>
<td>Maximum load cannot exceed power supply ratings or 3A for outputs combined</td>
</tr>
<tr>
<td><strong>Board Input Power</strong></td>
<td>Board requires 0.1A max. of power supply output current to operate</td>
</tr>
<tr>
<td><strong>Temperature Range</strong></td>
<td>32°-120° F (0°- 49° C)</td>
</tr>
<tr>
<td><strong>Compliance</strong></td>
<td>UL 294, ULC-S318, RoHS, &amp; FCC Part 15</td>
</tr>
<tr>
<td><strong>Fire Alarm Input</strong></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

Board not shown for clarity
**PS914 setup and testing**

### 3 Connect AC Wiring

3a Connect AC Wiring

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

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

- **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)

1a Place Batteries in Box with Terminals to the Left

1b Attach Wires from Battery Board

- Red wires = (+)
- Black wires = (-)

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

### 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

**DANGER**

Ensure AC breaker is turned off

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

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

**Battery Supervision Terminals**
(Shown AC Off)

- **Active**
  - AC On
  - Batteries Charging

- **Inactive**
  - AC Off
  - Batteries Supplying Power

**On-Solid**

**On-Blinking**

- AC On
- AC Off

**BB LED (Amber)**

**Red Wires = (+)**

**Black Wires = (-)**
6 Install 900-2rs option board (if required)

6a Use Jumper to Select Function

OR

Sequential

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

Sequential Mode - Typical Wiring

Input I1 will activate both outputs

Individual Mode - Typical Wiring

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

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

8 IF PS-914 has other option boards, see their instructions

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

<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>500</td>
</tr>
<tr>
<td>18</td>
<td>0.5</td>
<td>500</td>
<td>340</td>
</tr>
<tr>
<td>12</td>
<td>0.3</td>
<td>200</td>
<td>1200</td>
</tr>
<tr>
<td>14</td>
<td>0.5</td>
<td>100</td>
<td>150</td>
</tr>
<tr>
<td>12</td>
<td>Using EL device with EPT or Door Loop (PS914 required)</td>
<td>200</td>
<td>150</td>
</tr>
<tr>
<td>14</td>
<td>Using EL device with Electric Hinge/Pivot (PS914 required)</td>
<td>100</td>
<td>75</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

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