ED900 PAIR OF DOORS: SOLENOID ELECTRIC LATCH RETRACTION  
9100 ES EXIT DEVICES x PS501 POWER SUPPLY x ES105 POWER TRANSFERS x CARD READER x HARD WIRED ACTUATORS

OPERATION: Doors are normally closed and locked. Authorized personnel can access the exit of the building by presenting a valid card at the exterior reader. When the card is validated, the PS501 Power Supply provides power to the 9100 ES Exit Devices, enabling the exit door to open. The operation of the exit door is controlled by an electric latch retraction system. The retraction system is activated when the card reader sends a signal to the PS501 Power Supply, which then sends power to the exit door latch to retract it. When the exit door is opened, the latch is released, allowing the door to be closed. The retraction system also includes a FAIL-Safe feature, which locks the door when a power failure occurs.

LOSS OF POWER CONDITION: In the event of a power failure, the 9100 ES Exit Devices will lock the exit door, ensuring the safety of the occupants. The system also includes a battery backup capability to provide power for a limited time in case of a power outage.

NOTES: 1) All wiring and interface between EAC components and ED900 Low Energy Operators must be determined and supplied by others.
   2) All settings for ED900 Low Energy Operators must be determined and supplied by others.
   3) Card Reader N.O. relay closure times to be determined and set in field by others.

<table>
<thead>
<tr>
<th>PARTS</th>
<th>B/L</th>
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<tbody>
<tr>
<td>1 EA</td>
<td>ED900 PR J8 FWPRS Low Energy Operator; 115 VAC +/- 10% 50/60 Hz, 6.6 A max. (INCL. 2 ES900 J8 UNITS) (DORMA)</td>
</tr>
<tr>
<td>2 EA</td>
<td>ES105 Power Transfer (DORMA)</td>
</tr>
<tr>
<td>1 EA</td>
<td>WS1 Wall Actuator (DORMA)</td>
</tr>
<tr>
<td>1 EA</td>
<td>- Card Reader (BY OTHERS)</td>
</tr>
</tbody>
</table>

**PS501 POWER SUPPLY**

**FACTORY AIDS**

**ED900 ACTIVE UNIT CONNECTION TERMINALS**

**FACTORY AIDS MUST BE INSTALLED**

**MINIMUM WIRE GAUGE CHART (AWG) FOR 24V AC/DC**

**NOTE:** This wiring diagram is provided to assist in interfacing DORMA USA products into the system described above. Compatibility and functionality of components not supplied by DORMA USA are not guaranteed. Component failure resulting from improper wiring is not covered by warranty. Refer to individual product information sheets and installation instructions for wire gauge sizes and additional information.

**DORMA USA**

**REAMSTOWN, PENNSYLVANIA 17567**

**DIAGRAM No.** 900-W1/D193

**REFERENCE ONLY ALWAYS CONSULT FACTORY FOR LATEST DIAGRAM AT 1-800-523-8483**

**5/15**