

# ED900 SINGLE DOOR: SOLENOID ELECTRIC LATCH RETRACTION

## 9300 ES EXIT DEVICE x PS501 POWER SUPPLY x ES105 POWER TRANSFER x CARD READER x HARD WIRED ACTUATORS

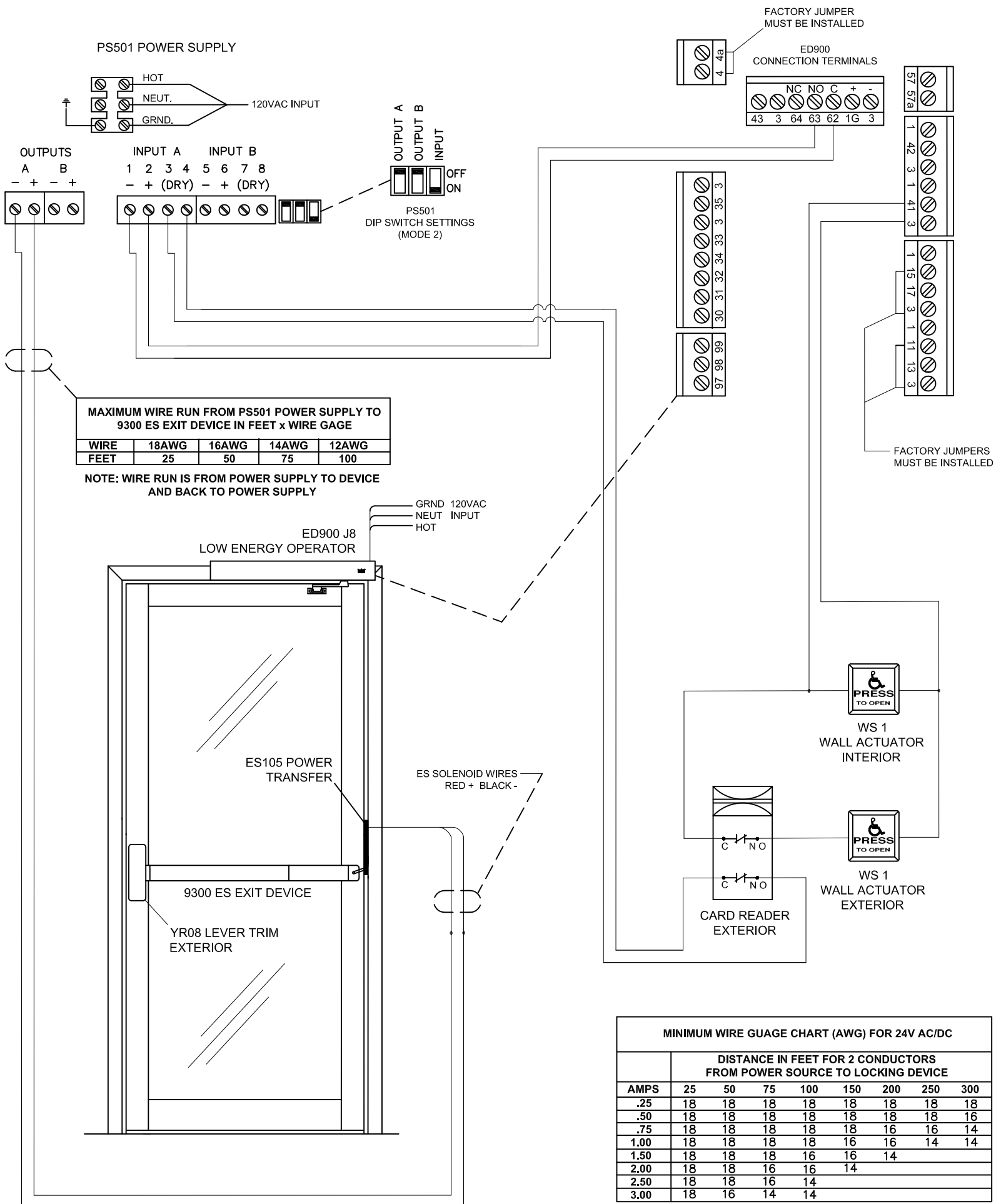
**OPERATION:** Door normally closed and locked. Authorized entrance by presenting valid card at exterior Card Reader which triggers the PS501 Power Supply to retract latch bolt of 9300 ES Exit Device and enables exterior WS-1 Wall Actuator. Pedestrian then has the option of power assisted entrance by depressing exterior WS-1 Wall Actuator which triggers the ED900 Low Energy Operator to open the door or manual entrance by YR08 Lever Trim. Authorized entrance also possible by key unlocking YR08 Lever Trim and depressing lever to retract latch bolt of 9300 ES Exit Device by-passing electric latch retraction. Power assisted egress by depressing interior WS-1 Wall Actuator which signals the ED900 Low Energy Operator to trigger the PS501 Power Supply to retract latch bolt of 9300 ES Exit Device. After delay time (field set on ED900) the ED900 Low Energy Operator opens the door. Manual egress by depressing touch bar of 9300 ES Exit Device.

**LOSS OF POWER CONDITION:** ED900 Low Energy Operator and PS501 Power Supply are disabled allowing door to close releasing latch bolt of 9300 ES Exit Device securing door when closed. Authorized entrance by key unlocking YR08 Lever Trim and depressing lever to retract latch bolt of 9300 ES Exit Device. YR08 Lever Trim remains unlocked until re-locked with key. Egress by depressing touch bar of 9300 ES Exit Device.

**NOTES:** 1) All wiring and interface between EAC components and ED900 to be determined and supplied by others.  
2) All settings for ED900 Low Energy Operator to be determined and set in field by others.

**PARTS LIST:**

- 1 EA. - ED900 J8 Low Energy Operator, 115 V AC +/- 10% 50/60 Hz, 6.6 A max. (DORMA)
- 1 EA. - 9300 ES Exit Device x YR08 Lever Trim (DORMA)
- 1 EA. - PS 501 Power Supply 24VDC, Inrush: 14-18 A for .20 seconds, 2 A holding current, per zone (DORMA)
- 1 EA. - ES105 Power Transfer (DORMA)
- 2 EA. - WS-1 Wall Actuator (DORMA)
- 1 EA. - Card Reader (BY OTHERS)



REV A | 6-6-16 | BLW | UPDATED ED900 RELAY WIRING

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 are not guaranteed. Component failure resulting from improper wiring is not covered by warranty. Refer to individual device product information sheets and installation instructions for wire gauge sizes and additional information.

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 DIAGRAM No. 900-WD019

