

ED900 SINGLE DOOR: ES62 FSV ELECTRIC STRIKE 24VDC (FAIL SECURE) 9300 EXIT DEVICE x CARD READER x HARD WIRED ACTUATORS

OPERATION: PRT03 Pull Trim is locked with key, exterior WS-1 Wall Actuator is disabled. Entrance by presenting valid card at Card Reader which energizes ES62 FSV Electric Strike to unlock 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 PRT03 Pull Trim. Authorized entrance also possible by key retracting latch bolt of 9300 Exit Device by-passing ES96 Electric Strike.

Power assisted egress by depressing interior WS-1 Wall Actuator which signals the ED900 Low Energy Operator to energize ES96 FSV Electric Strike to unlock. After delay time (field set on ED900) the ED900 Low Energy Operator opens the door. Manual egress by depressing touchbar of 9300 Exit Device.

LOSS OF POWER CONDITION: ED900 Low Energy Operator is disabled allowing door to close and ES62 FSV Electric Strike is de-energized and locked (FAIL SECURE) securing door when closed. Authorized entrance by key retracting latch bolt of 9300 Exit Device by-passing Electric Strike. Egress by depressing touchbar of 9300 Exit Device.

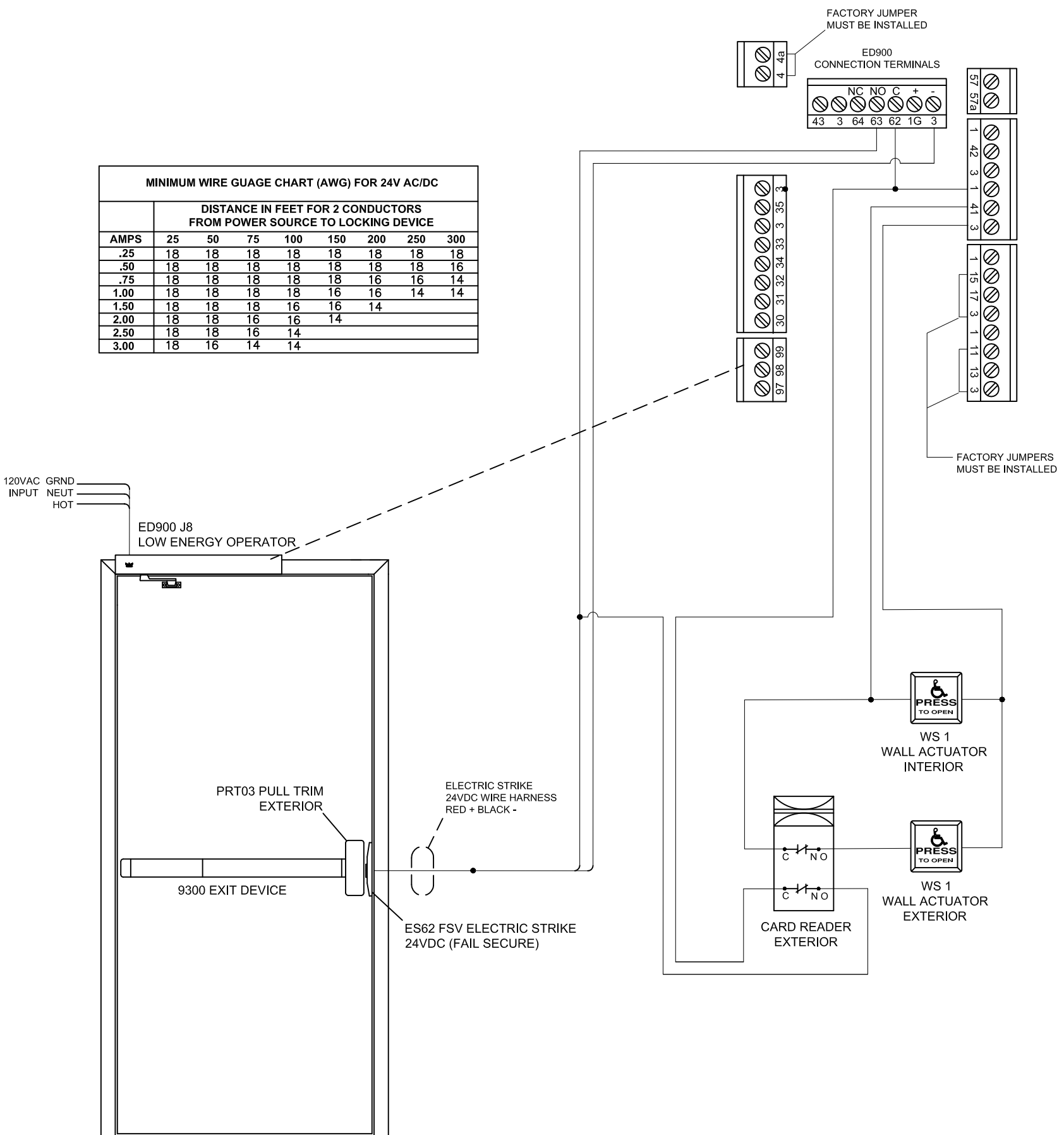
NOTES: 1) All wiring and interface between EAC components and ED900 to be determined and supplied by others.
2) All settings for ED900 Low Energy Operator to be determined and set in field by others.

PARTS LIST:

1 EA. - ED900 J8 Low Energy Operator, 115 V AC +/- 10% 50/60 Hz, 6.6 A max. (DORMA)
1 EA. - ES62 FSV Electric Strike .24 A @ 24VDC (FAIL SECURE) (DORMA)
1 EA. - 9300 Exit Device x PRT03 Pull Trim (DORMA)

2 EA. - WS-1 Wall Actuator (DORMA)
1 EA. - Card Reader (BY OTHERS)

MINIMUM WIRE GAUGE CHART (AWG) FOR 24V AC/DC								
DISTANCE IN FEET FOR 2 CONDUCTORS FROM POWER SOURCE TO LOCKING DEVICE								
AMPS	25	50	75	100	150	200	250	300
.25	18	18	18	18	18	18	18	18
.50	18	18	18	18	18	18	18	16
.75	18	18	18	18	18	16	16	14
1.00	18	18	18	18	16	16	14	14
1.50	18	18	18	16	16	14		
2.00	18	18	16	16	14			
2.50	18	18	16	14				
3.00	18	16	14	14				



REV A | 6-6-16 | BLW | UPDATED ED900 RELAY AND ES62 FSV POWER 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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