

ED900 SINGLE DOOR: EML310 ELECTROMAGNETIC LOCK 24VDC (FAIL SAFE) 9300 MS EXIT DEVICE x PB721 MO SPDT PUSH BUTTON x TD-ADJ TIMER x CARD READER x HARD WIRED ACTUATORS

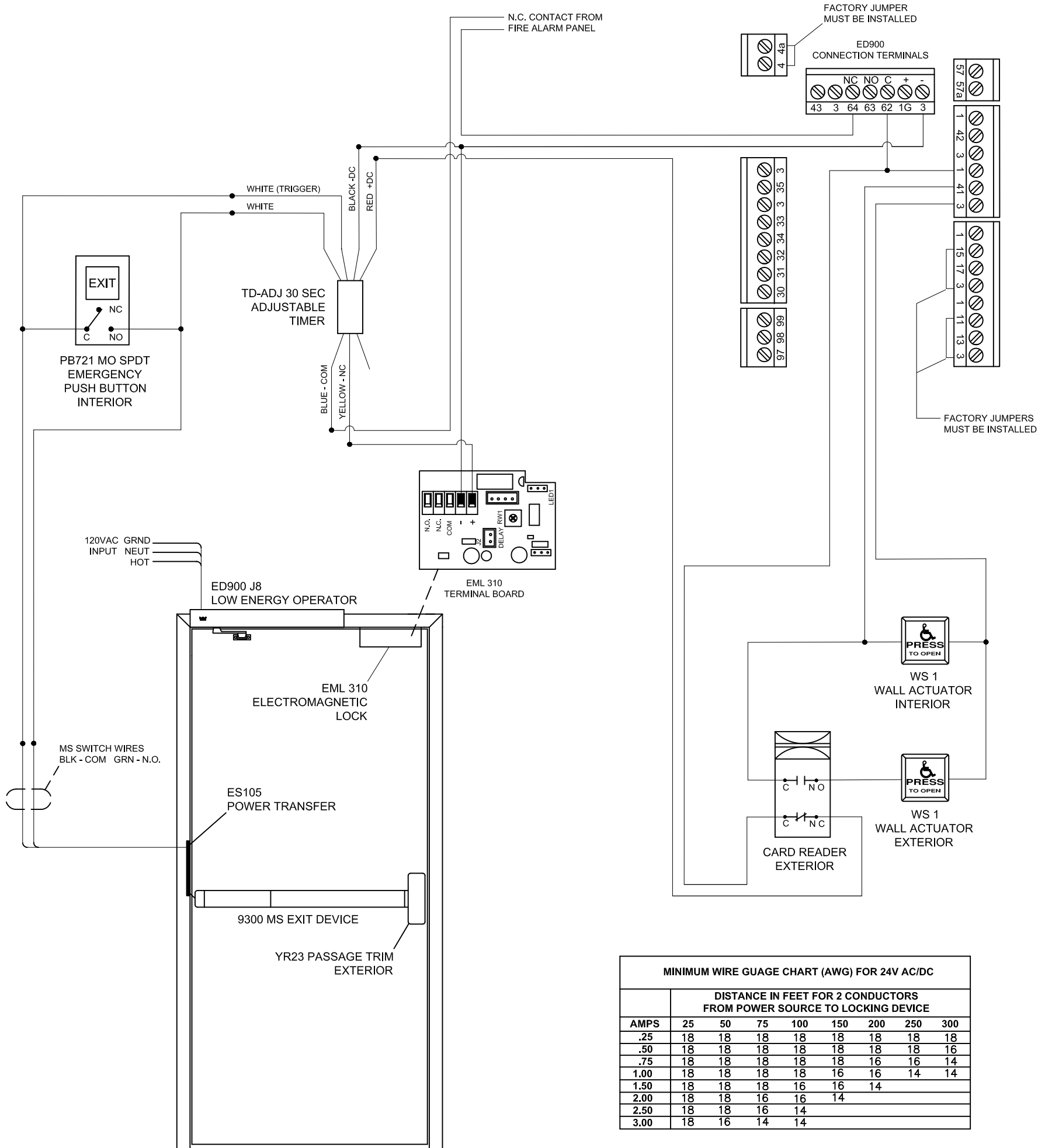
OPERATION: EML 310 Electromagnetic Lock is energized securing door, exterior WS-1 Wall Actuator is disabled. Entrance by presenting valid card at Card Reader which de-energizes EML 310 Electromagnetic Lock and enables exterior WS-1 Wall Actuator. Pedestrian then has the option of power assisted entrance by depressing exterior WS-1 Wall Actuator which triggers the ED900 Low Energy Operator to open the door or manual entrance by YR23 Passage Trim. Power assisted egress by depressing interior WS-1 Wall Actuator signals the ED900 Low Energy Operator to de-energize EML 310 Electromagnetic Lock. After delay time (field set on ED900) the ED900 Low Energy Operator opens the door. Manual egress by depressing touch bar of 9300 MS Exit Device which de-energizes EML 310 Electromagnetic Lock for time set on TD-ADJ Adjustable Timer. Emergency egress by depressing interior PB721 MO SPDT Push Button de-energizing EML 310 Electromagnetic Lock for time set on TD-ADJ Adjustable Timer allowing egress by depressing touch bar of 9300 MS Exit Device.

FIRE ALARM ACTIVATION: EML 310 Electromagnetic Lock is de-energized allowing immediate egress and entrance through door by depressing touch bar of 9300 MS Exit Device or lever of YR23 Passage Trim.

- NOTES:**
- 1) EML 310 Electromagnetic Lock to be controlled by UL approved fire alarm panel.
 - 2) All wiring and interface between ED900 Low Energy Operator and EAC components to be determined and supplied by others.
 - 3) Card Reader output relay open and close times and TD-ADJ Timer activation time to be determined and set in field by others.
 - 4) All settings for ED900 Low Energy Operator to be determined and set in field by others.

PARTS LIST:

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| 1 EA. - ED900 J8 Low Energy Operator 115 VAC +/- 10% 50/60 Hz, 6.6 A max. (DORMA) | 1 EA. - 9300 MS Exit Device, SPDT, .5 A @28VDC x YR23 Passage Trim (DORMA) |
| 1 EA. - EML 310 Electromagnetic Lock, .28 A @ 24VDC (DORMA) | 1 EA. - ES105 Power Transfer (DORMA) |
| 1 EA. - PB721 MO SPDT 2" Square Push Button (DORMA) | 2 EA. - WS-1 Wall Actuator (DORMA) |
| 1 EA. - TD-ADJ, 30 sec. Adjustable Timer, 10 A @ 125VAC (DORMA) | 1 EA. - Card Reader (BY OTHERS) |



REV A	6-6-16	BLW	UPDATED ED900 RELAY AND EML310 POWER WIRING
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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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