

24125007
Option Board
900-2RS
VON DUPRIN。

Installation Instructions

## 900-2RS Specifications:



| Inputs I1, I2 | Dry contacts required (Closed = Active) <br> Connect control contacts between SC (Signal Common) and any input |
| :---: | :---: |
| Outputs 01,02 | - 12/24VDC, 3A (wet) when AC powered <br> - 9.6-13.2VDC or 19.2-26.4VDC when battery powered <br> - May be used with PS914 to power EL device at 24VDC, 16A, 300ms <br> - Maximum load cannot exceed power supply ratings or 3A for outputs combined |
| Board Input Power | Board requires 0.1 A max. of power supply output current to operate |
| Temperature Range | $32^{\circ}-120^{\circ} \mathrm{F}\left(0^{\circ}-49^{\circ} \mathrm{C}\right)$ |
| Compliance | UL 294, ULC-S318, RoHS, \& FCC Part 15 |
| Fire Alarm Input | Accepts 900-FA Fire Alarm Board (Optional) |

## 1 INSTALL 900-2RS OPTION BOARD (IF REQUIRED)

1a
Use Jumper to Select Function


## ADANGER: <br> Ensure AC breaker is turned off when installing or wiring option boards



Review Available 900 series Option Board Mounting Locations (Gray)


PS902


PS904 PS914


PS906

Plug 2RS Cable into any Available Option Connector


PS902
1 Board


PS904, 914 2 Boards


PS906
3 Boards

## Secure Board with Screws

Notes: 1. 24 VDC output setting required when EL or QEL device connected
2. If installing board in location 2 or 3 , rotate board $180^{\circ}$
3. When powering (2) QEL's with a PS902, both cannot be activated at the same time, they must be sequenced.
4. Latchbolt retraction of (2) sequenced QEL's requires more than 1 second to complete.
5. For double door QEL applications with auto operators, it is recommended to use a PS904, 906, or 914 power supply.

## 2 CONNECT WIRING TO 900-2RS OPTION BOARD



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


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


Sequential Mode - Typical Wiring

Input I1 will activate both outputs


## Wire Table

| Device Type | Wire Ga (AWG) | Distance (max. ft.)* |  |
| :---: | :---: | :---: | :---: |
|  |  | Output A | Input B |
| EL Exit Device with EPT or Door Loop (PS914 Power Supply Required) | 12 | 200 |  |
|  | 14 | 100 |  |
| EL Exit Device with Electric Hinge/Pivot (PS914 Power Supply Required) | 12 | 150 |  |
|  | 14 | 75 |  |
| QEL Exit Device with EPT or Electric Hinge | 12 | 800 |  |
|  | 14 | 500 |  |
|  | 16 | 320 |  |
|  | 18 | 200 |  |
| Other Low Current Devices (. 5 Amps DC) | 14 | 500 |  |
|  | 18 | 200 |  |
| Other Low Current Devices (. 3 Amps DC) | 14 | 850 |  |
|  | 18 | 340 |  |
| Access Control Device | 18 |  | 1200 |

[^0]Max. ft = one way distance between power supply and device


[^0]:    * Wiring allows for $10 \%$ voltage drop at device current at 12 or 24VDC

