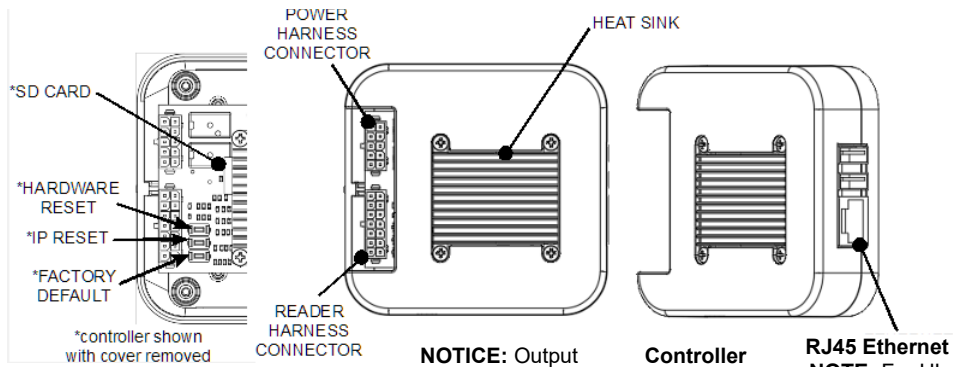


Neptune Series Access Control System Wiring Diagram for 1 Door Controllers

for Level 1 (controlled) Installations



1 Door Controller Layout

NOTICE: Output relay rating is 24 VDC @ 1A

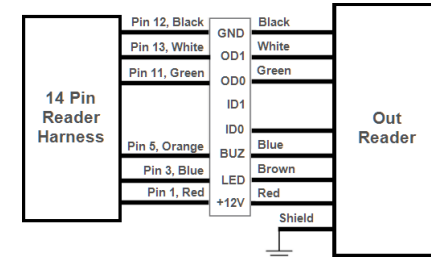
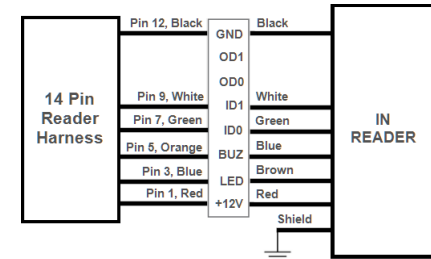
Controller Power
Class 2
12 VDC @ 2A

RJ45 Ethernet NOTE: For UL installations the maximum length of cable is 98.5 FT (30 m)

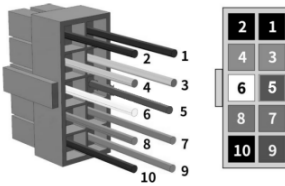
Use UL 294 Listed Readers
12 VDC @ 200mA max
Connect with twisted shielded wire, 22 AWG (250 FT), 18 AWG (500FT), Belden #9535 or equivalent.

| I/O | Default State |
|----------------|--|
| Door Status In | Disabled |
| REX In | Normally Open, Momentary |
| AUX In | Normally Open, Momentary |
| Door Out | Not Energized, Single Pulse, 3 Second On |
| AUX Out | Not Energized, Single Pulse, 3 Second On |

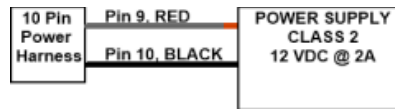
Wiegand Reader Wiring



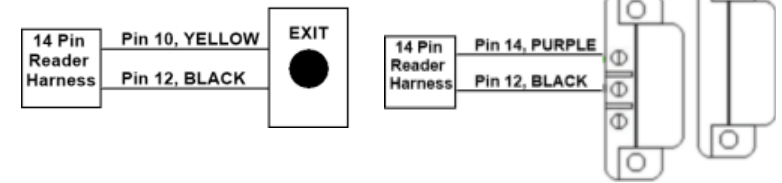
| 10 Position Power Harness | | |
|---------------------------|-------|-----------------------------------|
| Input Power | | |
| PIN | Color | Description |
| 10 | BLACK | Ground |
| 9 | RED | +12 VDC @ 2A |
| Door Output | | |
| 7 | GREEN | Normally Closed Dry Relay Contact |
| 5 | BLUE | Common Relay Contact |
| 3 | GRAY | Normally Open Dry Relay Contact |
| Auxiliary Output | | |
| 8 | GREEN | Normally Closed Dry Relay Contact |
| 6 | WHITE | Common Relay Contact |
| 4 | GRAY | Normally Open Dry Relay Contact |
| 2 | BLACK | Ground |
| 1 | BLACK | Ground |



12 VDC Power Wiring

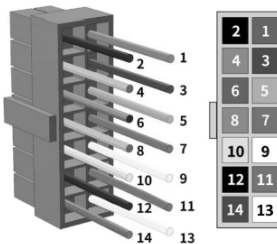


Input Wiring



NOTE: To prevent loss of configuration information, always backup system's database before disconnecting power.

| 14 Pin Reader Harness | | |
|-----------------------|--------|------------------------------------|
| Input Power | | |
| PIN | Color | Description |
| 1 | RED | +12 VDC Power for In & Out Readers |
| 3 | BLUE | LED, In & Out Readers |
| 5 | ORANGE | Buzzer, In & Out Readers |
| 7 | GREEN | D0, In Reader |
| 9 | WHITE | D1, In Reader |
| 11 | GREEN | D0, Out Reader |
| 13 | WHITE | D1, In Reader |
| 2 | BLACK | Ground, In & Out Readers |
| Door Inputs | | |
| 14 | PURPLE | Door Position Input |
| 12 | BLACK | Ground |
| 10 | YELLOW | Request to Exit Input |
| System Inputs | | |
| 8 | GRAY | AUX Input |
| 6 | BROWN | Tamper |
| 4 | GRAY | Power Fault |
| 12 | BLACK | Ground |



| Amps @ 12 VDC | Output Wire Gauge | | | |
|---------------|------------------------------|------|-----|-----|
| | Wire Gauge and Distance (FT) | | | |
| | 14 | 16 | 18 | 20 |
| 0.5 A | 1500 | 1000 | 600 | 375 |
| 1.0 A | 800 | 500 | 300 | 200 |
| 2.0 A | 400 | 240 | 150 | 50 |

NOTICE:
DO NOT ALTER OR TAMPER WITH THIS DEVICE.
CONTROLLER AND POWER MODULE HAVE NO USER REPLACEABLE PARTS.
System Contains Class 2 Circuits
Refer to installation manual 100100 for additional information

Door Lock Wiring

