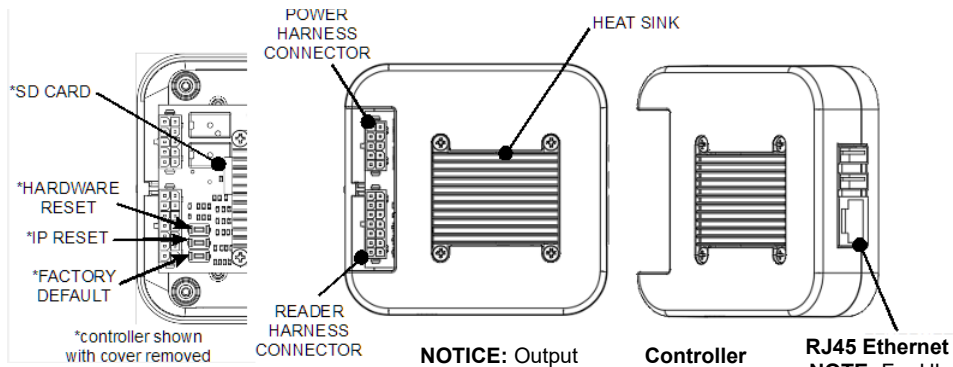


Neptune Series Access Control System Wiring Diagram for 1 Door Controllers

for Level 1 (controlled) Installations



1 Door Controller Layout

NOTICE: Output relay rating is 24 VDC @ 1A

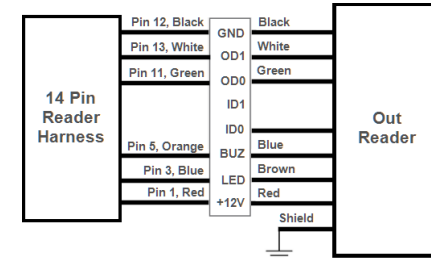
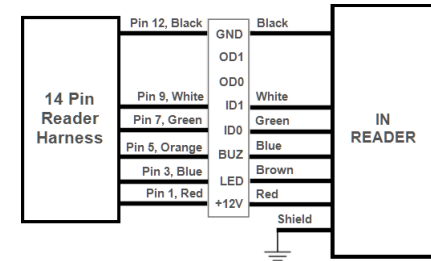
Controller Power
Class 2
12 VDC @ 2A

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

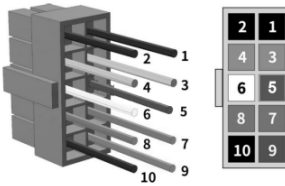
Use UL 294 Listed Readers
12 VDC @ 200mA max
Connect with twisted shielded wire, 22 AWG (250 FT), 18 AWG (500FT), Belden #9535 or equivalent.

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

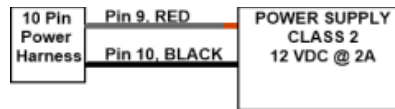
Wiegand Reader Wiring



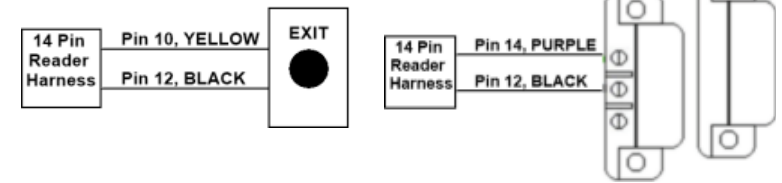
10 Position Power Harness		
Input Power		
PIN	Color	Description
10	BLACK	Ground
9	RED	+12 VDC @ 2A
Door Output		
7	GREEN	Normally Closed Dry Relay Contact
5	BLUE	Common Relay Contact
3	GRAY	Normally Open Dry Relay Contact
Auxiliary Output		
8	GREEN	Normally Closed Dry Relay Contact
6	WHITE	Common Relay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



12 VDC Power Wiring

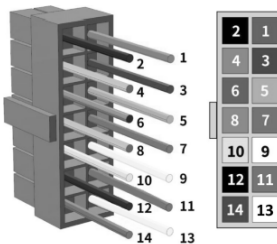


Input Wiring



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

