

VANDERBILT VIONX-8 Installation Guide

VIONX-8 INPUT - OUTPUT EXPANSION BOARD

- JUMPERS DEPICT THE FACTORY DEFAULT SETTINGS
- USE A CLASS 2 POWER LIMITED UL294 LISTED ACCESS CONTROL POWER SUPPLY
- ALL INTERCONNECTED DEVICES MUST BE UL LISTED
- USE ALL UL LISTED AND/OR RECOGNIZED WIRE SUITABLE FOR THE APPLICATION

IMPORTANT WARNING

Incorrect wiring to the power connector (P6 or P7) will cause serious damage to the equipment.
Please check all wiring connections prior to turning the system on.

P6 - POWER & COMMUNICATION

P6-1	GND	GROUND
P6-2	B	COMMUNICATION RS-485
P6-3	A	COMMUNICATION RS-485
P6-4	PWR	VOLTAGE IN

VIONX-8 Power Requirements: 14-24VDC
 VIONX-8 Current Consumption: 80mA max
 VIONX-8 P6 pin 1 GND - to controller
 VIONX-8 P6 pin 2 B to controller
 VIONX-8 P6 pin 3 A to controller
 VIONX-8 P6 pin 4 PWR + to controller
 Required Wire: 4 Cond. / 18 Awg. / Twisted / Shielded / Stranded
 (up to 500 FT) (data up to 4,000 FT)
 Required Power Supply: 24VDC Class 2 power limited UL294 power supply capable of four hours of standby battery power in P4 power box

P1 - P4 - CONTACT INPUTS

P1-1	GND	GROUND
P1-2	C1	CONTACT INPUT 1
P1-3	GND	GROUND
P1-4	C2	CONTACT INPUT 2
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P2-1	GND	GROUND
P2-2	C3	CONTACT INPUT 3
P2-3	GND	GROUND
P2-4	C4	CONTACT INPUT 4
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P3-1	GND	GROUND
P3-2	C5	CONTACT INPUT 5
P3-3	GND	GROUND
P3-4	C6	CONTACT INPUT 6
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P4-1	GND	GROUND
P4-2	C7	CONTACT INPUT 7
P4-3	GND	GROUND
P4-4	C8	CONTACT INPUT 8

Device Type:
 Door Position Switch (DOD) (Supervised) - Max. Distance 1,000 FT.
 Door Position Switch (DOD) (Unsupervised) - Max. Distance 2,000 FT.
 Required Wire: 2 Cond. / 22 Awg. / Twisted / Shielded / Stranded

P8 - P15 - RELAY OUTPUTS

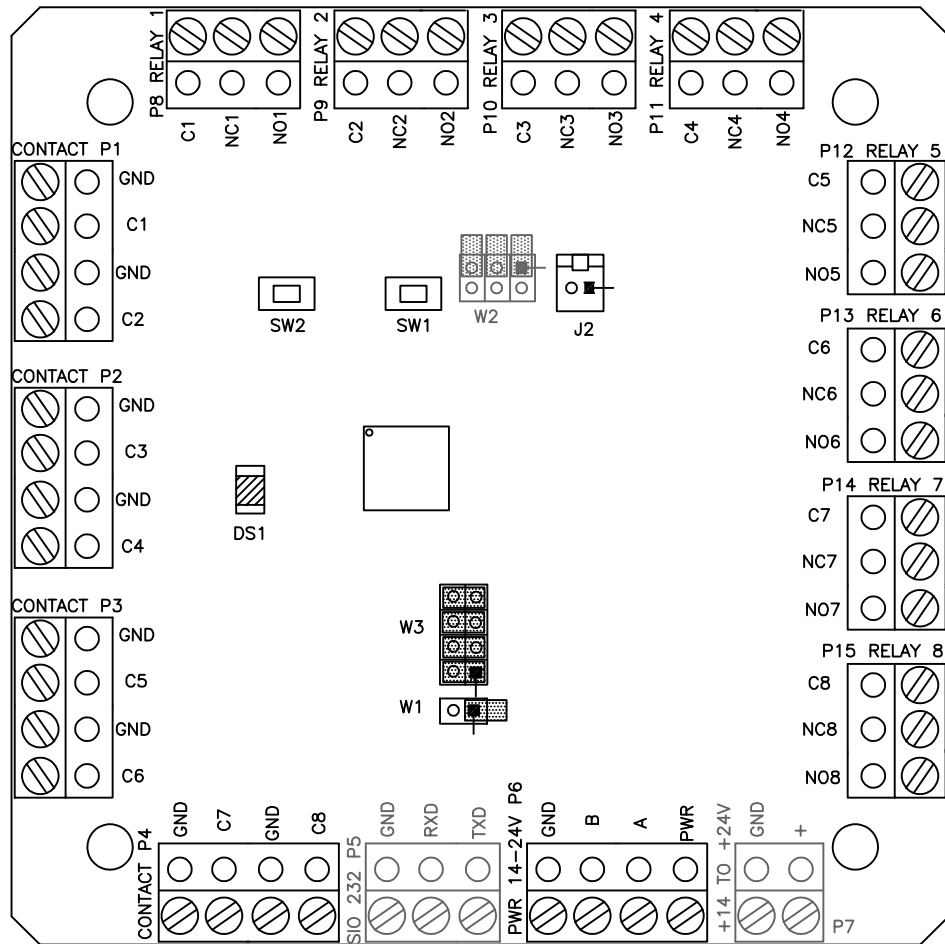
P8-1	NO1	NORMALLY OPEN
P8-2	NC1	NORMALLY CLOSED
P8-3	C1	COMMON
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P9-1	NO2	NORMALLY OPEN
P9-2	NC2	NORMALLY CLOSED
P9-3	C2	COMMON
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P10-1	NO3	NORMALLY OPEN
P10-2	NC3	NORMALLY CLOSED
P10-3	C3	COMMON
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P11-1	NO4	NORMALLY OPEN
P11-2	NC4	NORMALLY CLOSED
P11-3	C4	COMMON
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P12-1	NO5	NORMALLY OPEN
P12-2	NC5	NORMALLY CLOSED
P12-3	C5	COMMON
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P13-1	NO6	NORMALLY OPEN
P13-2	NC6	NORMALLY CLOSED
P13-3	C6	COMMON
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P14-1	NO7	NORMALLY OPEN
P14-2	NC7	NORMALLY CLOSED
P14-3	C7	COMMON
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P15-1	NO8	NORMALLY OPEN
P15-2	NC8	NORMALLY CLOSED
P15-3	C8	COMMON

Two relay outputs rated 30VDC @ 1A max.

VIONX-8 ENCLOSURE

The enclosure door should be secured with two screws in the provided holes.
 Optional tamper switch - Connect the tamper switch to connector on J2.

↑ SYMBOL DESIGNATES PIN 1 ON CONNECTOR



W3 - VIONX-8 EXPANSION ADDRESSING CHART

VIONX-8 ADDRESS	Jumper Locations			
	1	2	4	8
1	⊗	⊗	⊗	⊗
2		⊗	⊗	⊗
3	⊗		⊗	⊗
4			⊗	⊗
5	⊗	⊗		⊗
6		⊗		⊗
7	⊗			⊗
8				⊗
9	⊗	⊗	⊗	
10		⊗	⊗	
11	⊗		⊗	
12			⊗	
13	⊗	⊗		
14		⊗		
15	⊗			
16				

The address of the VIONX-8 is dependant on the position of the jumpers on these pins. Please refer to the addressing chart above.

UL INFORMATION

Model VIONX-8 has been evaluated to the following performance levels per UL 294 6e:
 Attack - I / Endurance - IV / Standby Power - I / Line Security - I

W1 - RS485 COMMUNICATION LINE TERMINATOR

	REMOVED (DEFAULT)	NO TERMINATION (DEFAULT)
	PINS 1 & 2	LINE TERMINATED

CONNECTORS NOT APPLICABLE

W2	(BKDG) CURRENTLY NOT IN USE
P7	(GND & +) CURRENTLY NOT IN USE

SW1 & SW2 - RESET SWITCH

Reset switch clears all the memory on the VIONX-8.
 Do not use unless instructed by a factory representative.

DS1 - LED INDICATOR

Slow Blink - Power, no data communication (Once per second)
 Fast Blink - Power and data communication

DATE OF MANUFACTURE: MONTH _____ YEAR _____

ASSEMBLY LOCATION: PARSIPPANY, NJ

ELECTRICAL RATING:

INPUT: DRY CONTACT

RELAY OUTPUTS: 1A @ 30VDC

MAXIMUM CURRENT DRAW: 80mA MAX

BOARD REVISION: VIONX-8 INPUT-OUTPUT EXPANSION BOARD

PRODUCT REFERENCE MATERIAL:

FOR PROGRAMMING INSTRUCTIONS PLEASE REFER TO VANDERBILT INDUSTRIES SMS USER MANUAL

FOR HARDWARE INSTRUCTIONS PLEASE REFER TO VANDERBILT INDUSTRIES SMS INSTALLATION MANUAL

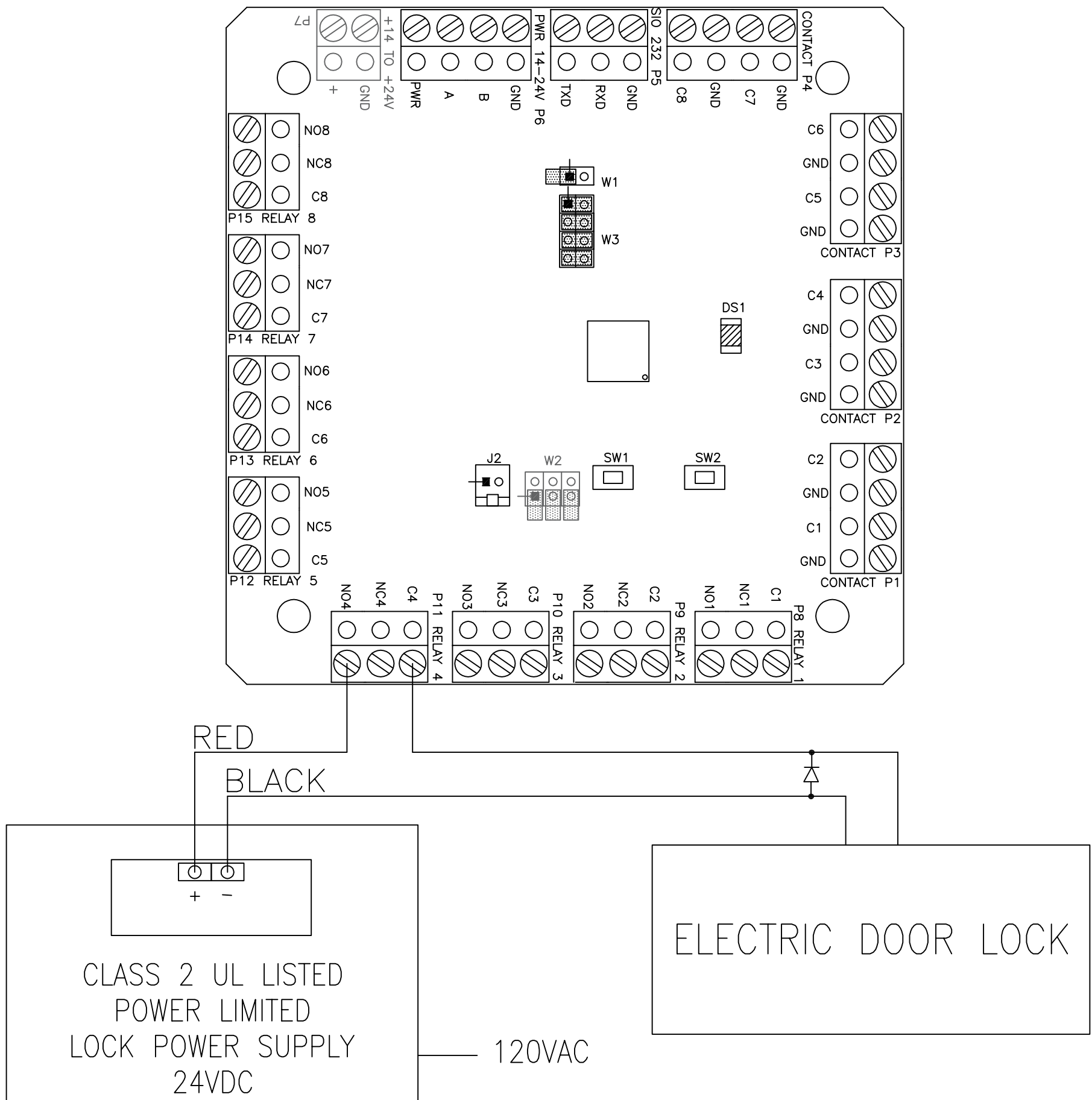
DOCUMENT FORM:

VANDERBILT INDUSTRIES VIONX-8 INSTALLATION GUIDE REVISION 2.0.5 (9/19/18)

VANDERBILT

Vanderbilt Industries VIONX-8 DIODE INSTALLATION GUIDE

A DIODE IS SUPPLIED WITH THE VIONX-8 WHICH SHOULD BE INSTALLED ACROSS 24V AND COM TO PROTECT THE RELAY CONTACTS.



A DIODE IS USED TO ELIMINATE THE VOLTAGE SPIKE SEEN ACROSS AN INDUCTIVE LOAD WHEN ITS SUPPLY VOLTAGE IS SUDDENLY REMOVED.