



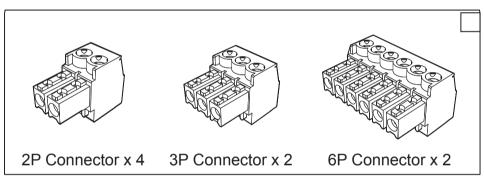
# **VAX Two-Door Controller Quick Start Guide**

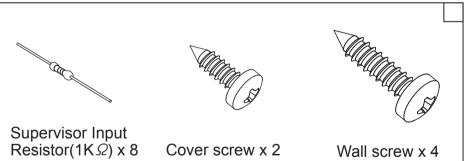


Part Number	Motion Sensor	Color
VAX-2D-REX	Yes	Black
VAX-2D	No	Black

# **Package Contents**







### UL 294/S319/Safety EN 60950-1, A2 Compliance Notices

This product complies with the following UL294 Access Control Performance Levels when installed as part of the Listed VAX system

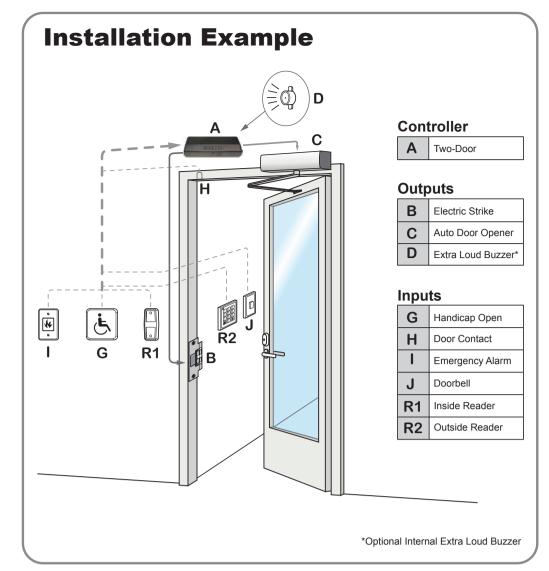
Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, Part I, local codes, and the authorities having jurisdiction. All interconnecting devices must be UL Listed, low-voltage Class 2 power limited. The minimum permissible wire size to be used shall not be less than 26 AWG (0.24 mm2).

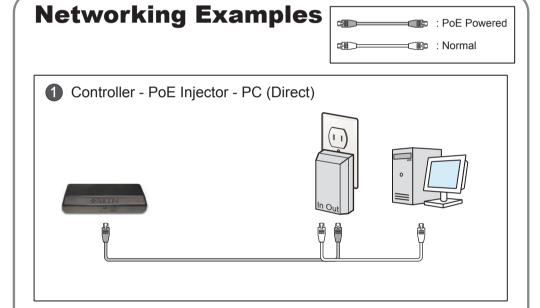
Products have been evaluated for "Indoor Use" only, and to be installed within the "protected" or "restricted" area. This product is not intended for outside wiring as covered by Article 800 in the National Electrical Code, NFPA 70. Products are not intended to be installed or mounted in air-handling spaces. Products are intended to be installed by manufacturer trained service installers only.

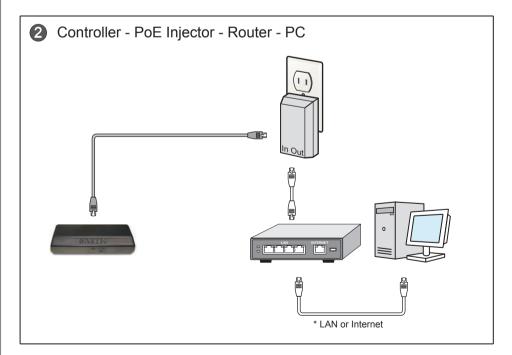
All recommended connected peripherals such as power supplies, UPS/battery backups, PoE switches, electrified strikes, readers

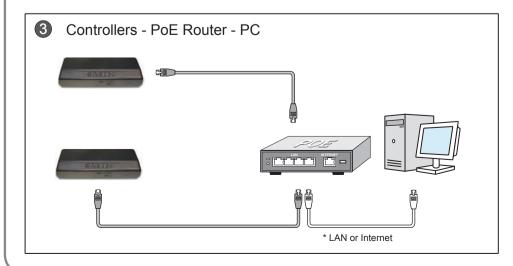
Please refer to the VAX UL Reference document for more comprehensive information available downloadable from our website. Hard copy of the VAX UL Reference Manual document is available; please call

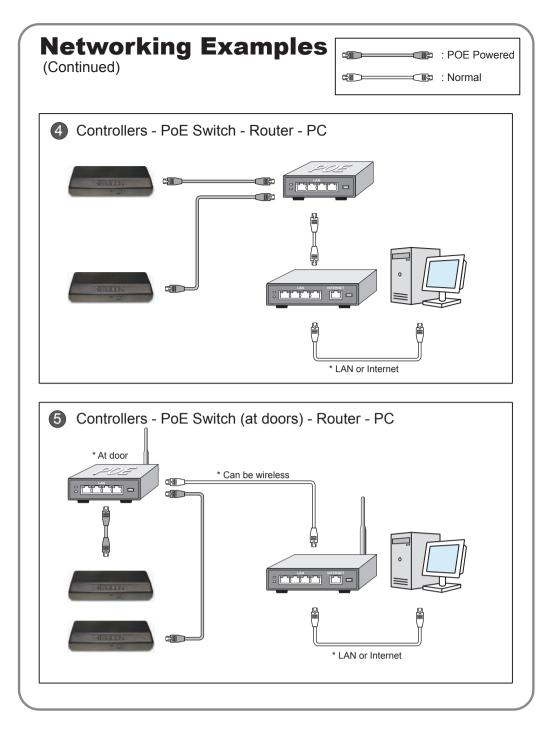
- a. To shut down the unit/controller cards, disconnect the network cable from the unit.
- b. Only a qualified person should install and handle the system.
- c. The unit gets up to 48 VDC from any PoE switch it is used with. d. The VAX units are not connected to the electric line.
- e. Grounding is not required.
- f. A nylon cable gland needs to be installed in the access hole where the cables enter the case.
- g. Units powered by PoE must use a detachable network cable.
- h. This is an indoor unit with an operating temperature range of  $32^{\circ} 122^{\circ}$  F ( $0^{\circ} 50^{\circ}$  C).

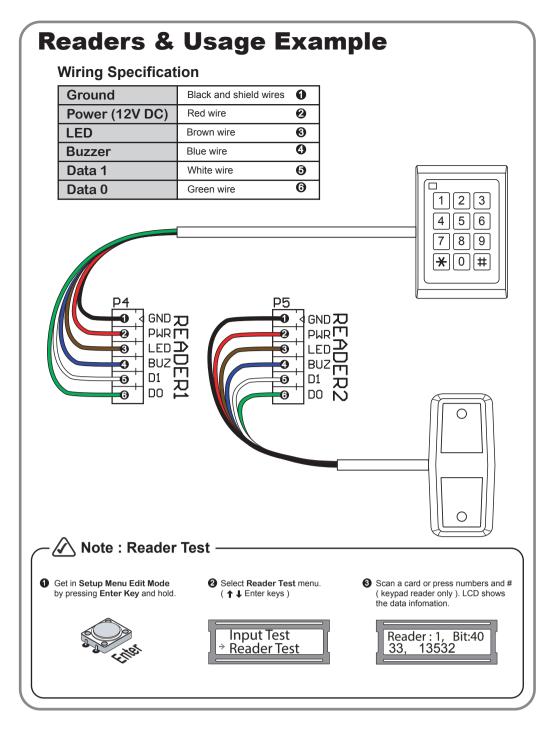


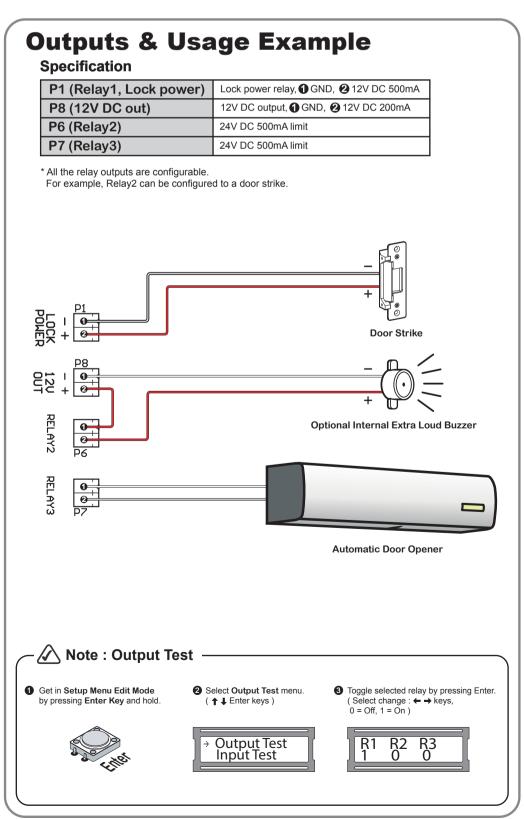


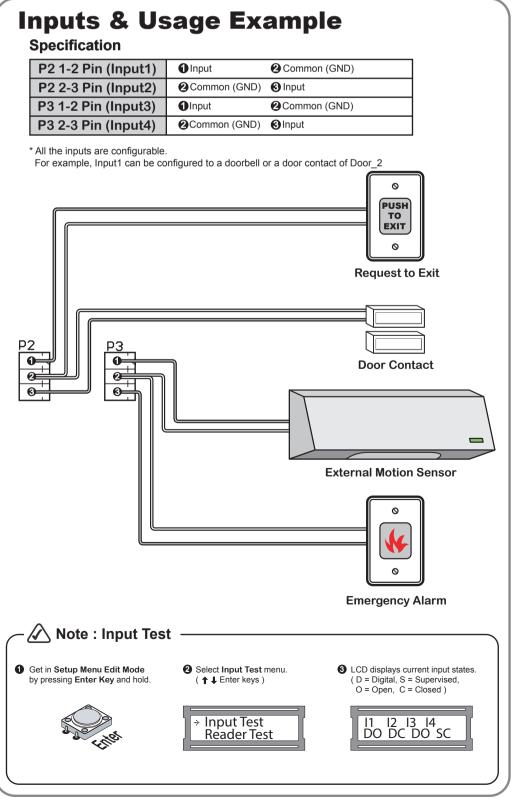


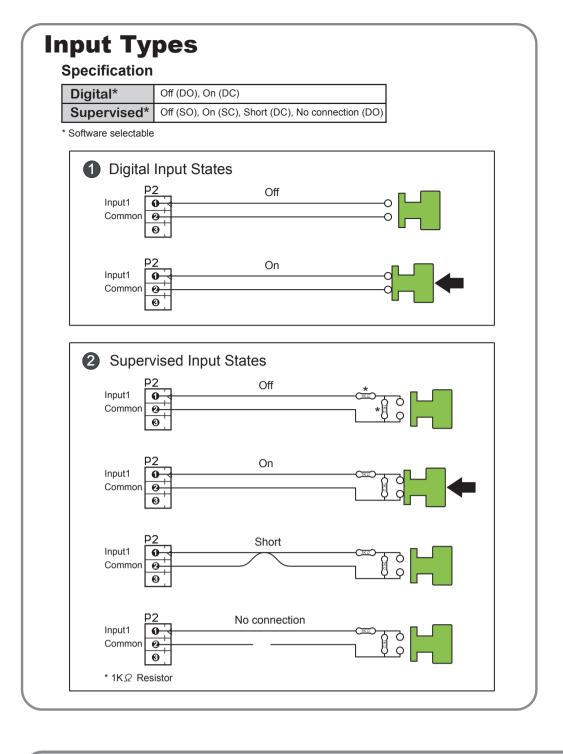


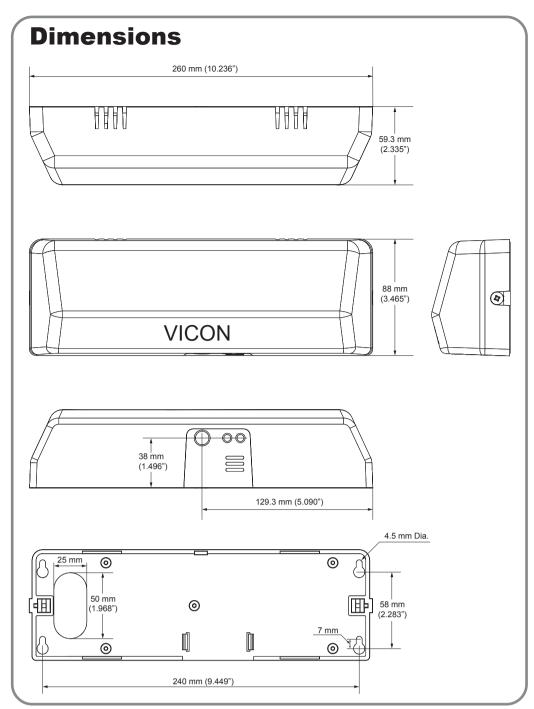




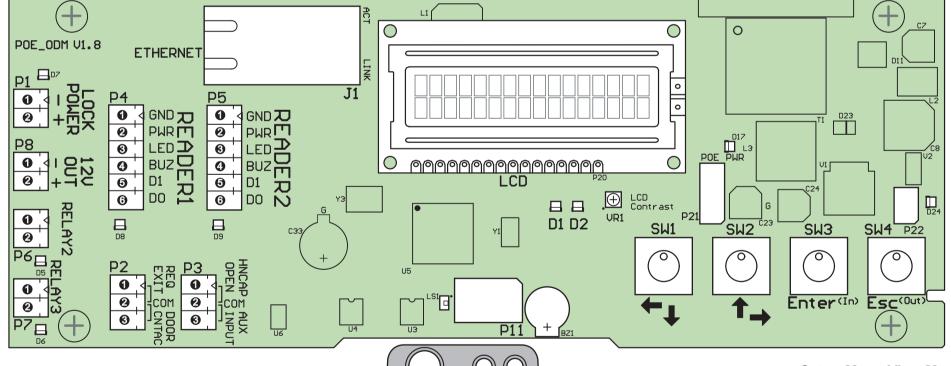












D1	System heart beat	
D2	Server log on/off state Key pressed	
D3	On: Server log off Blink: Server log in	
D4	Green: Motion detected Red: Door Opened	
D5	Relay2 on	
D6	Relay3 on	
D7	Relay1 on	
D8	Reader1 data flow	
D9	Reader2 data flow	
D17	POE power	
D24	CPU power	
LINK	Ethernet linked	
ACT	Ethernet Activity	

### Connectors

P1	Relay1, DC 12V wet contact	
P2	Input1, Common, Input2	
Р3	Input3, Common, Input4	
P4	Reader1	
<b>P</b> 5	Reader2	
<b>P</b> 6	Relay2	
P7	Relay3	
P8	DC 12V out	
P11	Sensor module	
P21	Expansion	
P22	Expansion	
J1	Ethernet	

Keys	
SW1	Left(←), down
SW2	Right(→), up(1
SW3	Enter, get in
SW4	Esc, exit
Etc	
LS1	Tamper senso

P20

VR1

**S**1

SW3	Enter, get in	
SW4	Esc, exit	
Etc		
LS1	Tamper sensor	
S1	Motion sensor	
BZ1	Embedded buzzer	

LCD display

LCD contrast

## **Setup Menu Edit Mode\***

Get in	Press and hold Enter (beeps after 2 sec) Enter password**	
Toggle cursor	Enter White blink: move Black blink: edit	
Get out	Esc	
Move cursor	Up (Right), Down (Left)	
Select menu	Enter	
Exit menu	Esc	

### **Setup Menu View Mode**

Get in	Press and hold Esc (beeps after 2 sec)	
Get out	Esc	
Move cursor	Up (Right), Down (Left)	
Select menu	Enter	
Exit menu	Esc	

- \* For the first time installation, get in this
- mode and do following tests.

  Output Test: Toggle relays with Enter
  Input Test: Shows input states
- Reader Test : Shows scaned card info
- \*\* Factory default password is 0000. Toll Free Tech Support: 1-800-34-VICON (800-348-4266)

# Motion Sensor Specification Sensor Type PIR Detection Range 5 m Detection Angle H: 94°, V: 82° Detection Zone 64 zones

### **FCC Compliance Notices**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1)This device may not cause harmful interference.

(2)This device must accept any interference received, including interference that may cause undesired operation.

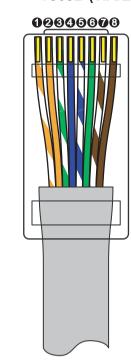
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

# **Cable Requirements**

Nan	ne	Maximum Distance	Cable Type	Code
PoE Cabl	e**	100 m (328')	Twisted pair, 4 pairs	Cat5 100BASE-T or better
Reader C	able	152 m (500')	6 conductor stranded not twisted, 24 AWG or thicker, 100% overall shielded	Belden 9537 or equivalent
Door Strik	ce Cable	152 m (500')	2 conductor stranded 18 AWG	Belden 9740 or equivalent*
Output Ca	able	152 m (500')	2 conductor stranded 22 AWG	Belden 8740 or equivalent*
Input Cab	le	152 m (500')	2 conductor stranded 22 AWG, shielded	Belden 8723 or equivalent*

- \* Unless otherwise specified by manufacturer.
- \*\* Recommended the following T568B wiring for both ends.

### T568B (TIA/EIA568B) Wiring



- White/Orange
- Orange
- White/Green
- 3 Blue
- White/Blue
- **3** Green
- White/Brown
- Brown

