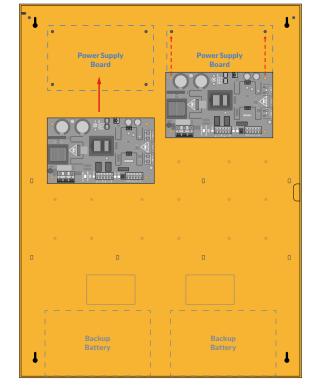
1. Mounting the Power Supplies



Mount - Line up the power supplies with the top mounting brackets in the enclosure. Using the supplied screws, fasten the power supplies to the enclosure.

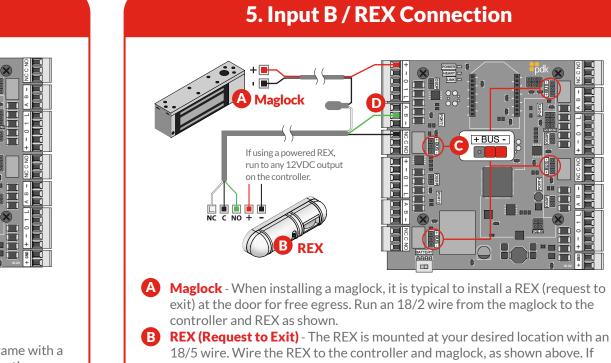
2. Mounting the Expander Board

	Expansion	Expansion	Expansion
	Board	Board	Board
	•		
D	·		
	1.	• • •	• I • • I
	Expansion	Expansion	Expansion
	Board	Board	Board
0	c		o - (

Mount - Select your desired mounting location within the enclosure. Line up the expander board with the desired mounting brackets. Using the supplied screws, fasten the expander board to the enclosure.



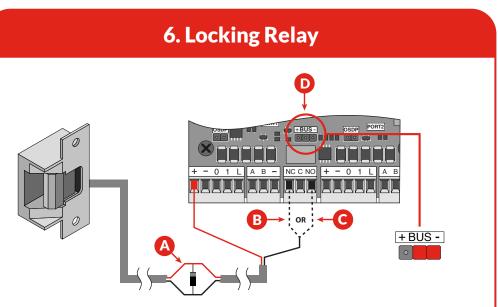
B



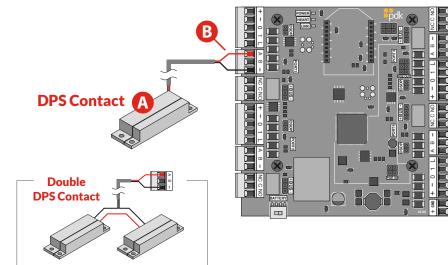
18/5 wire. Wire the REX to the controller and maglock, as shown above. If reporting is not needed in the software, simply eliminate the green input wire. Jumper Block(s) - Use to designate (+) or (-) board voltage out of NO and NC. a

If the jumper is off, the relay is a standard dry contact requiring an input into C on the relay.

AUX Input - A software rule can be programmed to trigger events or outputs D based on input triggers.



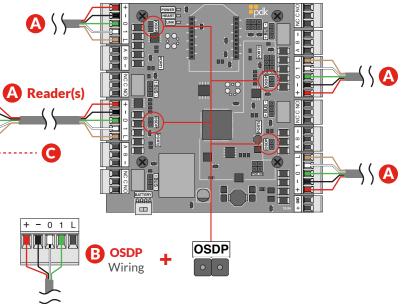
4. Input A / DPS Connection



A DPS (Door Position Sensor) - The DPS is mounted on the door frame with a 22/2 wire running from the DPS to the controller. Wire the DPS to the controller as shown above. For reporting double doors, wire the two-door position sensors in series and connect them to the controller.

B AUX Input - A software rule can be programmed to trigger events or outputs based on input triggers.

3. Reader Connection



Reader(s) - The reader is mounted at the door with a 22/5 or 22/6 wire running to the door controller. Wire the reader to the controller as shown above. Be sure to check polarity and voltage prior to powering the controller. **OSDP** - Place jumper(s) to enable OSDP (see reference guide for more information about OSDP.)

Piezo - Can be connected to available relay and configured with software

Diode - The provided diode must be installed when using a strike. Install at the strike with the gray stripe on positive and black on negative.

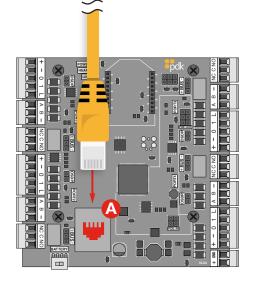
B NC - Used for maglocks (or strikes in fail-safe configuration). Connect the negative (-) of the maglock or strike to NC on the controller.

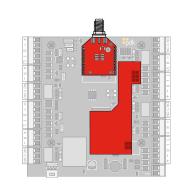
NO - Used for strikes in fail-secure configuration. Connect the negative (-) of the strike to NO on the controller.

Jumper Block - Use to designate (+) or (-) board voltage out of NO and NC. If the jumper is off, the relay is a standard dry contact requiring an input into C on the relay.

7. Communication Connections

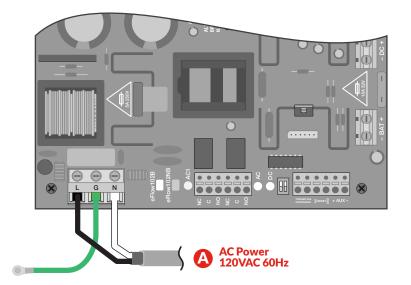
Ethernet - All Red controllers come with a built-in RJ45 connection for network connectivity. Once connected, the Red controller is Self-Discoverable from pdk.io using IPV6. Alternatively, you may use IPV4 or assign a static IP using pdk.io if desired.





• Wireless (PN: RMW) and PoE (PN: RMPOE) module kits can be purchased for optional communication methods.

8. Power Connection



- Powering Board Connect unswitched AC power (120VAC 60Hz) to terminals marked [L, G, N]. L to hot, N to neutral, G to ground. Use 14 AWG or larger for all power connections. Secure green wire lead to earth ground.
- * **Disclaimer** -Installers must adhere to all regulations and hold the proper state licenses prior to supplying voltage to the power supply.
- * **Battery Backup** is strongly recommended on all ProdataKey hardware. The recommended backup battery for the Red Max is two 12V 12ah batteries.

Reference Guide

Fire Input - To integrate the fire system into a controller, refer to wiring diagrams at <u>www.prodatakey.zendesk.com</u>

Programming - After the controller is connected, access the configuration software as instructed in the programming manual available at <u>www.prodatakey.zendesk.com</u>

Reader Compatibility - Pdk does not require proprietary readers. Controllers accept a Wiegand input, including biometric readers and keypads. OSDP readers are supported by using the included jumper (see OSDP reference guide). Contact pdk support if assistance is needed.

UL 294 Compliance - All equipment must meet appropriate UL certifications. For UL-listed installations, all cable runs must be less than 30 meters (98.5')

Part Number - R4E

Pdk Technical Support

Phone: 801.317.8802 option #2 Email: support@prodatakey.com Knowledge Base: prodatakey.zendesk.com

OSDP Reference Guide

What is OSDP - Open Supervised Device Protocol (OSDP) is an access control communications standard developed by the Security Industry Association to improve interoperability among access control and security products. OSDP brings heightened security and improved functionality. It is more secure than Wiegand and supports AES-128 encryption.

OSDP Wire Specification - Four-conductor, twisted-pair cable with overall shield is recommended to remain fully TIA-485 compliant at the maximum supported baud rates and cable distances.

Note - It's possible to reuse existing Wiegand wiring for OSDP. However, using a simple stranded cable typical of Wiegand readers generally does not meet the RS-485 twisted pair recommendations.

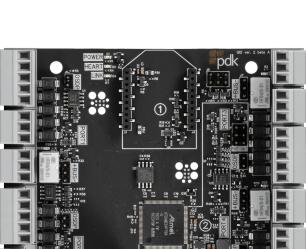
OSDP Multi-Drop - Multi-drop gives you the capability to accommodate many readers by running one length of four-conductor cable, eliminating the need to run wire for each wire.

Note - Four (4) is the maximum number of readers each port can support.

Note - Wiegand readers will not work when OSDP jumpers are installed.







View the user manual here: prodatakey.zendesk.com

PN: R4E

www.prodatakey.com 801.317.8802

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