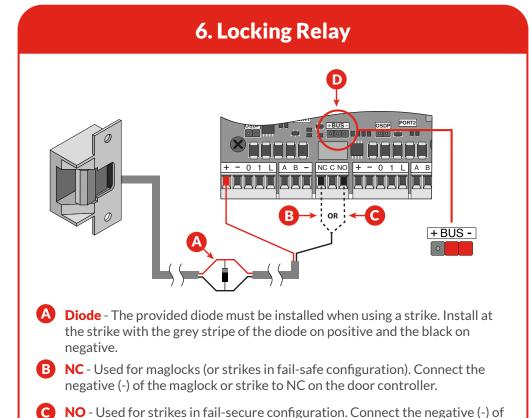


**Jumper Block(s)** - Use to designate (+) or (-) board voltage out of NO and NC.

If the jumper is off, the relay is a standard dry contact needing input into

**AUX Input** - A rule can be set up to trigger events or outputs based on this input trigger.

eliminate the green-labeled wire.



Jumper Block - Use to designate (+) or (-) board voltage out of NO and NC. If

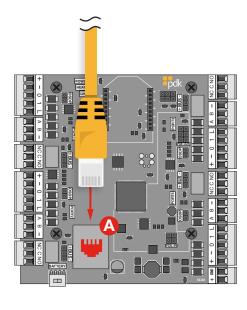
the jumper is off, the relay is a standard dry contact needing input into

the strike to NO on the door controller.

common.

### 7. Communication Connections

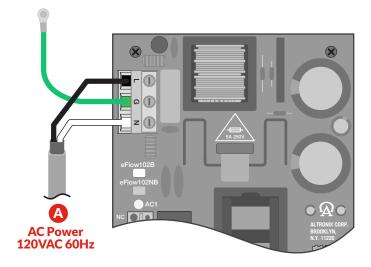
A Ethernet - All Red controllers come with a built-in RJ45 connection for network connectivity. Once connected, the Red 8 controller is Self-Discoverable from pdk.io using IPV6. Alternatively, you may use IPV4 or assign a static IP using pdk.io if desired.





Wireless (PN: RMW) and PoE (PN: RMPOE) module kits can be purchased for optional communication add-ons.

# 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 8 is a 12V 8ah battery.

## **Reference Guide**

**Fire Input** - To integrate the fire system using a Red 8 door controller, refer to wiring diagrams in the Partner Portal at <a href="mailto:prodatakey.zendesk.com">prodatakey.zendesk.com</a>

**Programming** - After the Red 8 door controller has been connected back to the Cloud Node, access the configuration software as instructed in the programming manual. This manual is available for download at prodatakey.zendesk.com

**Reader Compatibility** - ProdataKey does not require proprietary readers. Door controllers accept a Wiegand input, including biometric readers and keypads. OSDP readers are supported by using an included jumper (see OSDP reference guide). Contact support for details.

**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** - R8

#### **PDK Technical Support**

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

PDK 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 (4) conductor twisted pair shielded 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 RS485 twisted pair recommendations.

**OSDP Multi-Drop** - Multi-drop gives you the capability to accommodate many readers by running one length of 4-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.





Quick Start **Guide** 



**View the user manual here:** prodatakey.zendesk.com

**PN: R8** 

www.prodatakey.com 801.317.8802