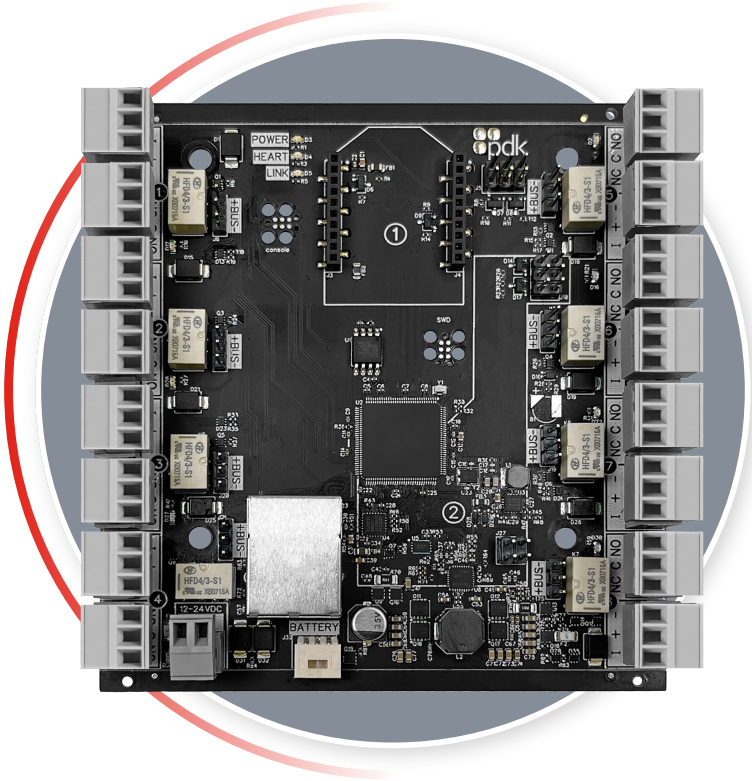
pdk

Red™ | a8e

aux eight **expander**

Quick Start **Guide**



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

PN: A8E

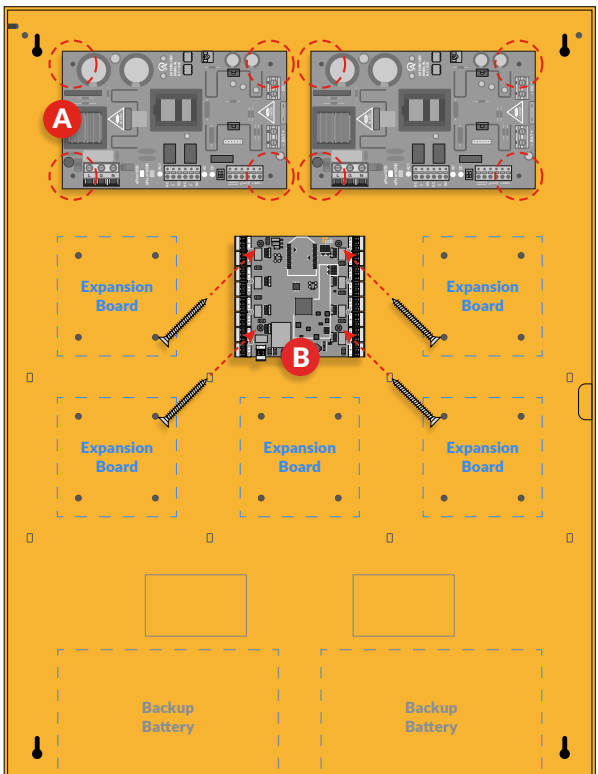
www.prodatakey.com
801.317.8802

REV 03132023

1. Mounting Power and Boards

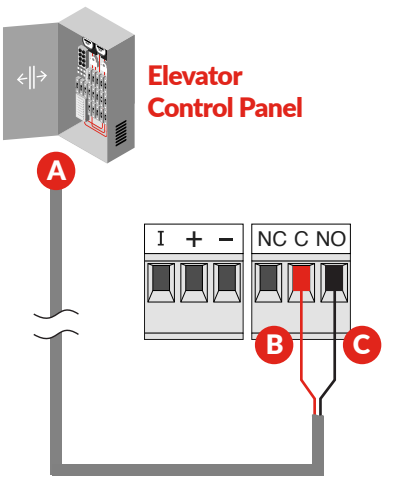
A **Mount** - Line up the power supplies with the top mounting brackets in the enclosure. Using the supplied screws, fasten the power supplies to the enclosure.

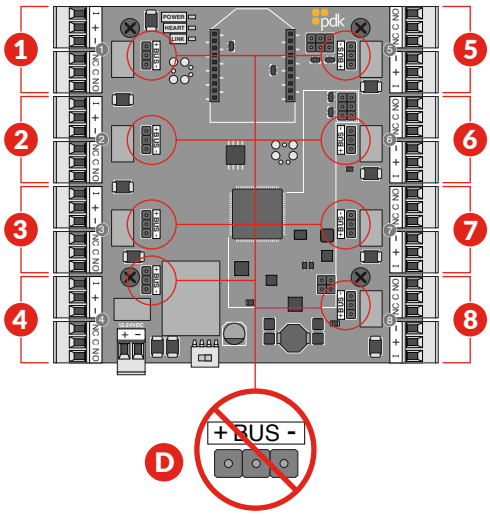
B **Mount** -Select your desired mounting location within the Red Max enclosure. Line up the expander board with the desired mounting brackets. Using the supplied screws, fasten the expander board to the Red Max enclosure.



PDK Red Max Enclosure

2. Elevator Floors





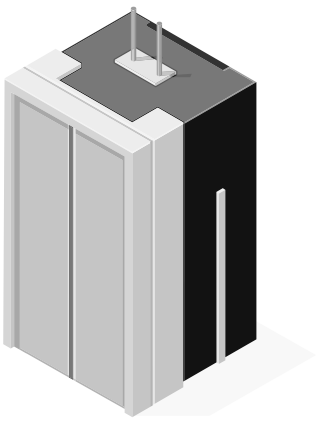
A **Elevator Control Panel** - Wire each floor trigger to the Aux 8 relay ports using an 18/2 wire.

B **Common** - Connect one wire from the elevator control panel into common on the relay input.

C **NO** - Connect the negative leg (-) from the elevator control panel into Normally Open on the Aux 8 relay port.

D **Jumper Block** - Because the elevator floor is wired as a dry contact, do not place a jumper on the jumper block.

3. Elevator Software Programming



A Elevator Reader Programming

1. Select **Configuration** within pdk.io
2. Click the discovery tab
3. Select the magnifying glass icon
4. Hover over the controller where your reader has been installed and select **“add port”**
5. Select **“elevator”** from the wizard
6. Add the elevator car reader by selecting **“primary reader”**
7. Follow the wizard to bring the elevator reader online

B Elevator Floor Relay Programming

1. Select **Configuration** within pdk.io
2. Click the discovery tab
3. Select the magnifying glass icon
4. Hover over your Aux 8 controller and select **“add port”**
5. Select **“elevator”** from the wizard
6. Add an elevator floor by selecting **“floor relay”**
7. Follow the wizard to bring the elevator floor online

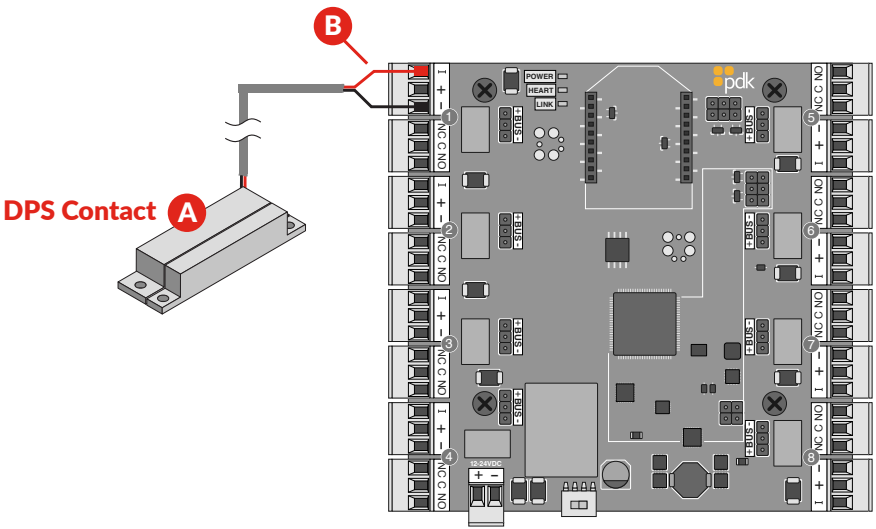
C Elevator Floor Access Groups

1. Select **Elevators** within pdk.io
2. Click the **plus** button to create a new elevator floor group
3. Name the group
4. Choose an elevator car reader
5. Select the floors that will be accessible for all members of the group
6. Save the Group

D Assigning Permission to Floors

1. Add permissions within **People** or **Groups** within pdk.io
2. Create a new **Rule** for a person or group
3. Click on the tab titled **“elevator”**
4. Set the schedule
5. Select the Floor Group
6. Save the Rule

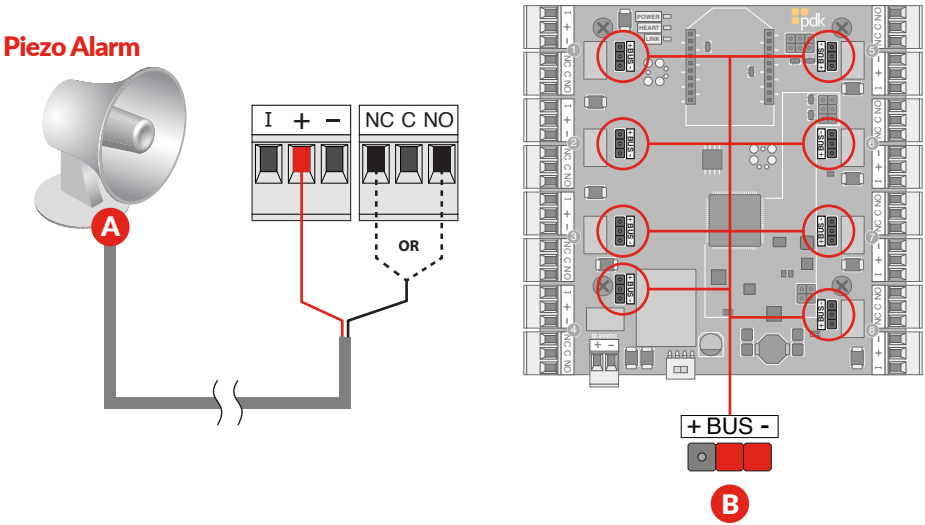
4. Input Connection



A **Device(s) -** A variety of devices can be wired into any of the Aux 8's input ports for reporting purposes. Examples include door position sensors and push buttons.

B **Aux input -** The input reports in pdk.io as a DPS (A) input. When initiated, a rule can be set up to trigger events or outputs based on this input trigger

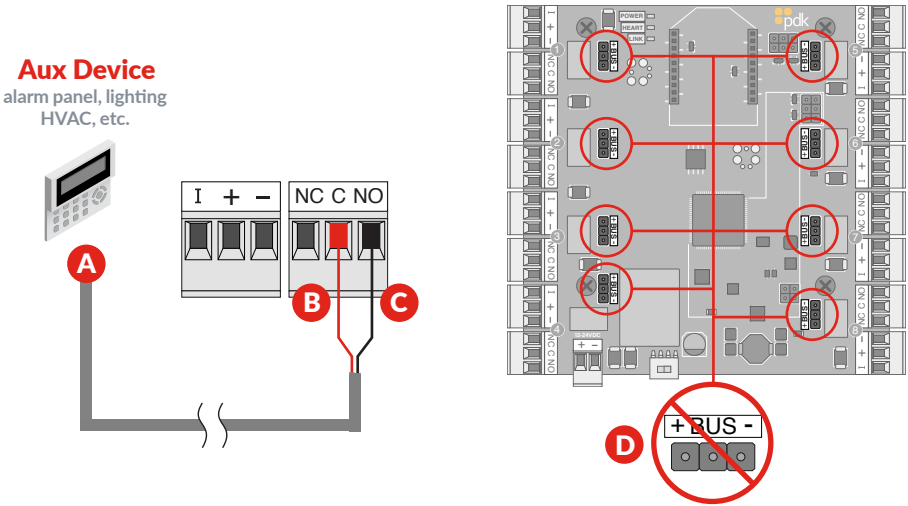
5. Wet Contact Output



A **Aux Device** - An Aux device can be connected to the door controller to be triggered based on specific events in the system. The most typical trigger is a door prop alarm. Connect the device as shown above.

B **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 requiring an input into C on the relay.

6. Dry Contact Output



A **Device** - A variety of devices can be wired into any of the Aux 8's relay ports to trigger a specific action. Examples include alarm panel integration, lighting, and HVAC.

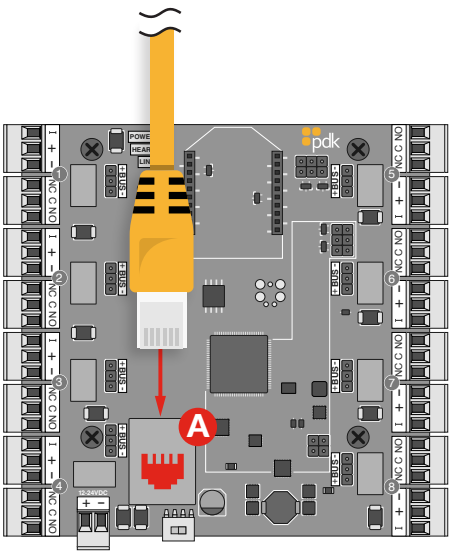
B **Common** - Connect one wire from the device into common on the relay input.

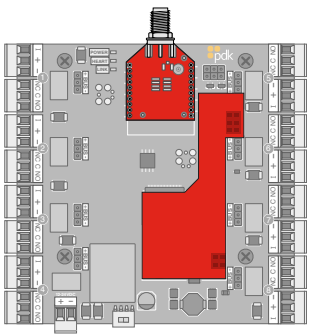
C **NO** - Connect the negative (-) leg from the elevator control panel into Normally Open on the Aux 8 expander.

D **Jumper Block** - Because the device is wired as a dry contact, do not place a jumper on the jumper block.

7. Communication Connection

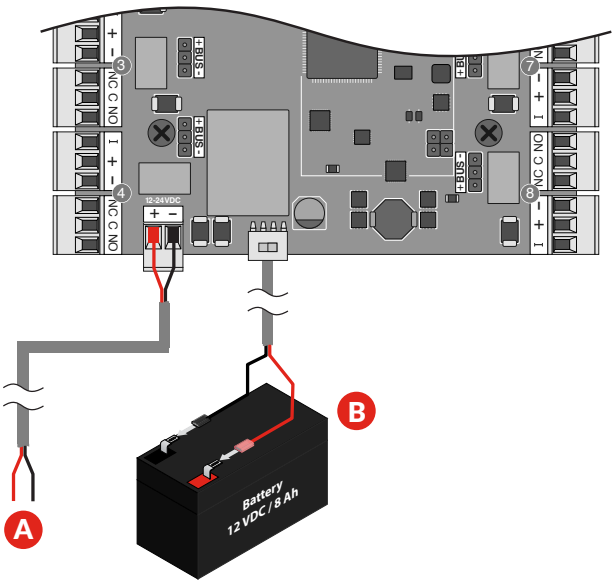
A **Ethernet** - All Red controllers come with a built-in RJ45 connection for network connectivity. Once connected the Red controller is **Self-Discoverable** from pdk.io using IPV6. Alternatively, you may use IPV4 or assign a static IP using pdk.io if desired.





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

8. Power Connection



A **DC Input** - Input 12-24 VDC power using an 18/2 wire. For high voltage applications, use the High Voltage Converter (PN: HVC)

B **Backup Battery** - The enclosure will fit most 12V 8 Ah batteries. Connect the battery to the controller using the supplied battery leads.

Reference Guide

Strike Installation - To control readerless doors using an electric strike, refer to wiring diagrams at www.prodatakey.zendesk.com

Mag Lock & REX Installation - To control readerless doors using a maglock and request-to-exit device, refer to wiring diagrams at www.prodatakey.zendesk.com

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

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

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')

Amperage Limits - The Aux 8 delivers an amperage limit of 4 amps for all electrified hardware plugged into the board

Part Number - A8E

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