

Dimension: 124x124mm

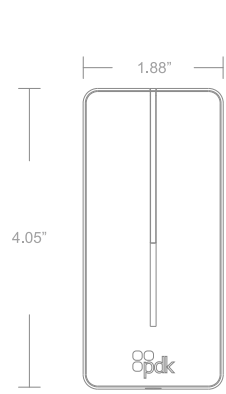


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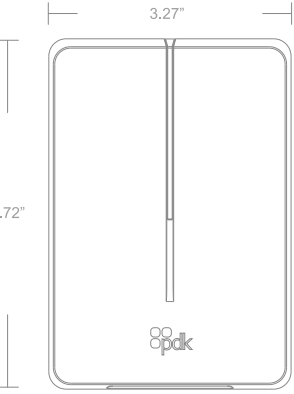
# ruggedreader

mullion / single-gang

## USER MANUAL



mullion  
RDRMRS



single-gang  
RDRGRS

### Features

- 125-kHz prox cards supported
- Anti-vandal and waterproof design
- Zinc alloy case, fully potted, water-resistant IP68 (IP rated as "dust tight" and protected against submersion in water up to a maximum depth of 39" inches for up to 60 minutes)

### Package Contents

- Rugged Reader (1)
- Mounting template (1)
- Allen wrench (1)
- Mounting screws (2-RDRMRS / 4-RDRGRS)
- Wall anchors for mounting to drywall (2-RDRMRS / 4-RDRGRS)

### Specifications

|                             |                                                                                                             |
|-----------------------------|-------------------------------------------------------------------------------------------------------------|
| Operating voltage:          | DC12V±10%                                                                                                   |
| Card type:                  | Prox (125 kHz)                                                                                              |
| Reading distance:           | ≤5cm                                                                                                        |
| Current:                    | Idle ≤ 35mA, Max ≤ 150mA                                                                                    |
| Operating temperature:      | -4° ~ +122° F or -20° ~ +50° C                                                                              |
| Operating humidity:         | 0~95%                                                                                                       |
| Dust and waterproof rating: | Conforms to IP68                                                                                            |
| Impact Protection rating:   | Conforms to IK10                                                                                            |
| Dimensions:                 | mullion: 4.05 x 1.88 x 0.86 in (103 x 48 x 22mm)<br>single-gang: 4.72 x 3.27 x 0.89 in (120 x 83 x 22.5 mm) |

### Rugged Reader Wiring

| Wire Color | Function          | Connection             |
|------------|-------------------|------------------------|
| Red        | + (positive)      | DC Power +12VDC        |
| Black      | GND (negative)    | Ground (-)             |
| Green      | D0 (data zero)    | Data 0 (zero)          |
| White      | D1 (data 1)       | Data 1 (one)           |
| Brown      | Green LED Control | L Output               |
| Yellow     | Buzzer Connector  | NO on additional relay |

### Operation

#### Credential input

When a credential is read, the indicator light turns green and the reader buzzer sounds. Afterward, the indicator light returns to red.

#### LED indicator light

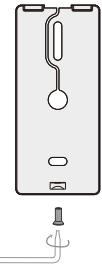
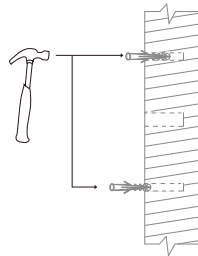
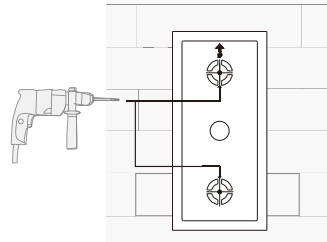
When the Brown (green LED control) wire is pulled low, the LED indicator light turns green; when the Brown (green LED control) wire is not pulled low, the LED indicator light turns red.

#### Reader buzzer

When the Yellow (buzzer) wire is pulled low, the buzzer sounds. If the Yellow (buzzer) wire is pulled low for 30+ seconds or not pulled low, the buzzer will no longer sound.

#### Tamper alarm

While powered if the reader is removed from the backplate the buzzer will sound for up to 1 minute.



### Installation

#### 1.Drill pilot holes

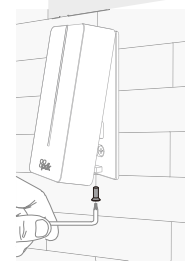
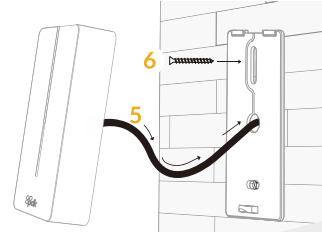
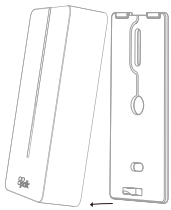
Using the screw and wiring locations on the mounting template mark, and then drill pilot holes on the desired mounting location.

#### 2. Install Wall Anchors

Install the included wall anchors if needed.

#### 3. Remove Fastening Screw

Remove the fastening screw at the bottom of the reader.



#### 4. Separate

Separate the reader from the mounting bracket.

#### 5. Connect Wires

Wire the reader following the instructions in the wiring section.

#### 6. Mount Bracket

Mount the mounting bracket to the desired mounting location, using the included mounting screws.

#### 7. Reassemble

Reassemble the reader and mounting bracket by replacing and tightening the previously removed fastening screws.

### FCC warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution:** Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.

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

The device complies with RF specifications when the device used at 0mm from your body.



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