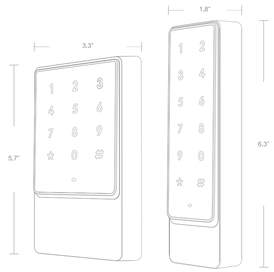
115mm

205mm

rugged**reader**

keypad mullion / single-gang



Single-Gang
RDRGRK

Mullion
RDRMRK

USER MANUAL

Features

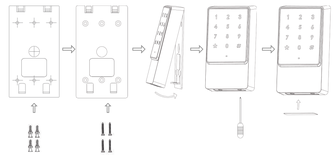
- Backlit capacitive touch keypad
- 125-kHz prox cards supported
- IP68 fully potted
- Rugged zinc alloy structure with wear-resistant glass face.

Package Contents

- Rugged Reader (1)
- Mounting screws (4)
- Wall anchors (4) for mounting to drywall
- Mounting Template
- Security screw cover

Installation Instructions

1. Remove both security screws at the bottom of the reader.
2. Separate the reader from the mounting bracket.
3. Using the mounting template mark, and then drill pilot holes on the desired mounting location.
4. Install the included wall anchors if needed.
5. Wire the reader following the instructions in the wiring section.
6. Mount the mounting bracket to the desired mounting location, using the included mounting screws.
7. Reassemble the reader and mounting bracket by replacing and tightening the previously removed security screws.



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

Strip the ends of the wires, and pair the reader wires with the corresponding controller wires by inserting the exposed ends of each wire pair (one of each door controller and reader) into each end of a B-connector wire splice. Crimp the wires tightly. Repeat this process for each set of paired wires, ensuring that both wires are security crimped inside a B-connector.

Buzzer and Light Indication

Operation Status	Indicator Light Color	Buzzer
Standby	Red	
Keypad		Short Beep
Read card	Green	Long Beep
Operation Successful	Green	Long Beep
Operation Failed		3 short beeps
Administrator Password Input	Slow Red Flash	
1st menu	Slow Red Flash	
2nd menu	Slow Orange Flash	
During setting	Orange	
Alarm	Fast Red Flash	Alarm

Anti-tamper Alarm Function

When the anti-tamper alarm is turned on, if the reader is removed from the wall the built-in buzzer will alarm.

Canceling the Anti-tamper Alarm

During the anti-tamper alarm, input the administrator password to cancel the alarm.

Factory Reset

Turn off the reader and hold the * key. Then turn on the reader and release the * key when you hear two short beeps followed by a long beep.

Settings

To modify the settings on the reader input the administrator password.
Note: The reader will return to normal operation if there are no valid operations performed in 30 seconds.

Enter Administrator Operation

Enter Administrator Operation			
Red	Flash Red	Functions	Remarks
*	6-8 digits administrator password #	Enter administrator operation mode	Default 888888

Reader Settings				
Flash Red	Flash Orange	Orange	Function	Remark
0		6-8 digits new passwords #, repeat 6-8 digits new passwordsd#	Modify Administrator Password	
7	0	0-15，#	Facility code	Default 0
	2	26-37，#	Card number output format	Default 26
	3	0，#	4-6 digits +facility code virtual card number output	Default 1
		1，#	Single Key a 4bit output	
		2，#	Single Key a 8bit output	
	4	0，#	Turn off Alarm	Default 1
		1-3，#	Turn on Alarm for 1-3 minutes	
8	1	0，#	Indicator Light Normally OFF①	Default 1
		1，#	Indicator Light Normally ON	
	2	0，#	Buzzer OFF②	Default 1
		1，#	Buzzer ON	
	3	0，#	Keypad Light Normally OFF	Default 1
		1，#	Keypad Light Normally ON	
		2，#	Keypad Light Automatic mode③	
	4	0，#	Turn off anti-tamper Alarm④	Default 1
		1，#	Turn on anti-tamper Alarm	

Remarks：
1. Refers to the static state of the indicator light.
2. The buzzer will still function as normal while in administrator operation mode.
3. The keypad will be on when a key is pressed or a card is read and will turn off in 30 seconds. While the keypad light is off the first key pressed will turn on the keypad but not send data.
4. The anti-tamper alarm function will be turned off.

Specifications

Input Voltage	DC 12V±10%
Current	Idle ≤ 45mA，Max ≤ 150mA
Weigand Output	26bit – 37bit
Reading Distance	5 cm
Type of RF Card	125 kHz Prox Card
Dimension(Height x Wide x Depth)	Single Gang: 5.7 x 3.3 x 1 in (145 x 83 x 26 mm) Mullion: 6.3 x 1.8 x 1 in (160x45x26 mm)
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Dust & Waterproof Rating	Conforms to IP68
Impact Protection Rating	Body Conforms to IK10 (Glass does not conform to IK10)

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 pro vide 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 e xplicitly approved by the manufacturer could void your authority to operate this equipment.*

This device complies with part 15 of the FCC Rules. Oper ation 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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