Approvals and Standards

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.

CE

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PremierProx

Mullion and Wall Mount Readers

Installation Manual

ReaDX

General

The PremierProx family of readers will read an assortment of proximity card formats which operate at 125 kHz.

The readers are designed to be wall or mullion mounted, for either indoor or outdoor applications. As both the wall mount and mullion readers are completely sealed there is never a need for any modifications for outdoor installations.

The mounting surface will affect the overall read range performance of the reader. When mounting on a metal surface, expect a significant decrease in read range (10% to 20% decrease from maximum rated range).

Considerations

1. Reader installation should conform with all local codes, ordinances and regulations.

2. The controller must supply at least + 5 and not more than + 15 V DC of operating voltage to the reader.

3. The maximum recommended reader distance from the controller is as follows:

   200 feet with #22 AWG wire cable
   500 feet with #18 AWG wire cable

Shielded cable is recommended for outdoor installations that are over 200 feet from the building or if strong interference is present (EMI, AC).

Mounting

The readers are designed to be mounted vertically, but can be mounted horizontally.

Mount the reader on a flat surface at a height of about 152 cm (5') . A lower mount may be required for disabled persons or for reading from cars.

Installation

To prevent any damage to the reader, make sure that all connections are done while power from the controller is turned off.

1. Remove the reader cover from the base.

2. Connect the wires from the reader to the end of the cable coming from the controller.

Function	Wire Color
Power (+ 5 to + 15 VDC)	Red
Common	Black
Data "1"	White
Data "0"	Green
LED	Brown
Buzzer	Yellow
Hold	Blue

3. Screw the reader to the wall.

4. Secure the reader cover to the base.

5. Verify that the cards to be read are encoded. Observe the reader LED, it should flash when a recognised card format is presented.

Diagnostic Testing

The reader is factory calibrated and is not field serviceable.

A card with a recognized format presented to a reader will cause the LED to "flash" and the buzzer to sound while outputting data to the host.

Direct substitution with a known good reader is the best way to isolate a problem.

If the reader is exchanged and there still is a problem, measure the voltage at the reader between the Red (+) and Black (-) wires. It should measure between + 5 and + 15 VDC.

Warranty

Readx Global Limited warranties the reader to be free from any material or workmanship defects for a period of two years from date of manufacture. Readx assumes no responsibilities for malfunctions or damages due to improper installation of the product.

Specifications

Input
125 kHz cards

Read Distance
Mullion: 100 mm
Wall: 100 mm

Data Output
Standard Wiegand format

LED Control
Brown control line

Wire Length
200 feet with #22 AWG
500 feet with #18 AWG

Operating Temperature
0° to 70° C (32° to 150° F)

Power
+ 5 to + 15 VDC at 75 mA.

Buzzer
Activates upon card acceptance or via yellow control line.

Disclaimer

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