

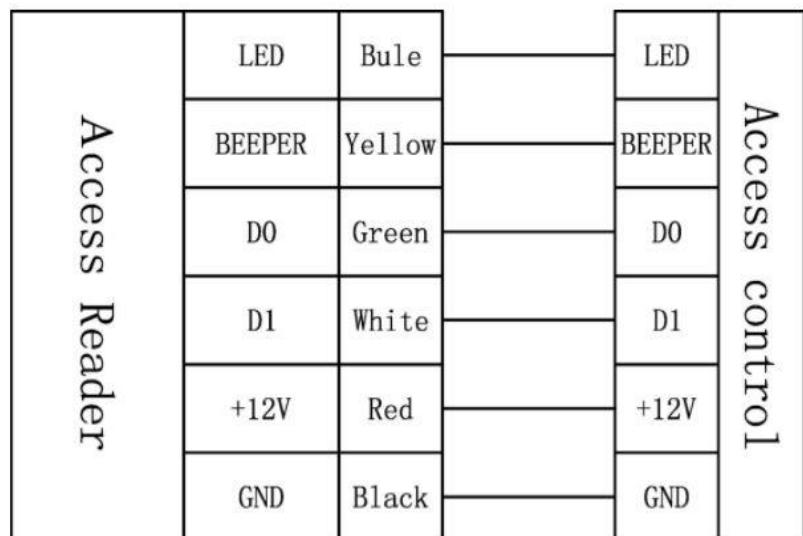
# R-100-Prox Reader



FCC ID:2ATQ6R-100

## Connecting R-100 Prox Reader to Controller / Host

Wire No.	Function	Color	Description
1	LED	Blue	Connect controller LED
2	Beeper	Yellow	Connect controller beeper
3	D0	Green	WG output line D0
4	D1	White	WG output line D1
5	+12V	Red	Power supply +12V
6	GND	Black	Power supply -12V



# R-100-Prox Reader



## Specifications / Technical Parameters

<b>Model Number</b>	R-100
<b>Read Range</b>	Up to 9cm (up to 3.6")
<b>Color</b>	Black
<b>Dimensions</b>	82mm x 42mm x 15mm (3.3" x 1.7" x 0.59")
<b>Power Supply</b>	12 VDC
<b>Power Requirement**</b>	30mA
<b>Operating Temperature</b>	-45 to 60 degrees C
<b>Operating Humidity</b>	10-95% relative
<b>Transmit Frequency</b>	125 KHz
<b>Cable Distance</b>	153 M (500 ft.) Recommend 22 AWG
<b>Termination</b>	26 AWG Pigtail
<b>Card Type</b>	EM
<b>Waterproof Degree</b>	IP68

# R-100-Prox Reader

## Install & Test

### Mounting Instructions

- ✓ Determine an appropriate mounting location. The reader may be mounted to any surface, including metal.
- ✓ Drill (2) 5/63-inch (2mm) holes approximately 1 inch deep for mounting the reader.
- ✓ Drill a 5/8-inch (16mm) hole for the cable.
- ✓ The reader may be mounted on a single gang back box.
- ✓ Remove screw at bottom of reader and remove back cover from the reader and secure the reader to the mounting surface.
- ✓ Route the cable from the reader and/or power supply to the host. A linear type power supply is recommended.
- ✓ Check all electrical codes for proper cable installation.
- ✓ Test the operation of the reader. After completion of the test, replace the back cover & screw.

**Note:** When mounting on metal surfaces read range could be affected. Placing a non metal gasket between the reader and the metal surface may improve read range.

### Testing Procedure

When Power is applied to the reader the LED will flash green while the beeper beeps Simultaneously. Then the LED will turn red. This indicates the controller and the reader are operating properly

Present Prox Card to the reader. The LED will momentarily turn green while the beeper Beeps. This means the card was read successfully.

Changes or modifications not expressly approved by the party responsible for compliance could void the users authority to operate the equipment.

**NOTE:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the users authority to operate the equipment.

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FCC Caution.

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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 radio frequency 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.