

S-RX Series

User Manual

1. Introduction

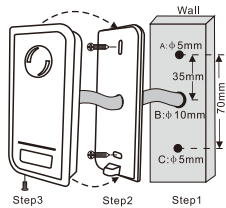
The S-RX Series readers are advanced 125 KHz & 13.56 MHz technology proximity readers, with built-in Light Dependent Resistor (LDR) sensor for anti-tamper, it is an ideal choice for high-security applications. They are attractively designed with a thin profile and modern appearance, four models (S1-RX, S2-RX, S3-RX and S4-RX) available.

2. Specifications

Model	S1-RX	S2-RX	S3-RX	S4-RX
Operation Voltage	9~24V DC			
Standby Current	≤25mA			
Frequency	125KHz and 13.56MHz			
Card Type	125KHz - EM & HID Card/Fobs 13.56MHz - Mifare Card (ISO 14443A Compatible)			
Read Range	Up to 2.8 inches (7cm)			
Output Format	26 bits Wiegand (default) 26~37 bits available upon request			
Operating Temperature	-40℃~60℃ (-40℉~140℉)			
Operating Humidity	10% to 95% RH			
Color	Black (White optional)			
Index of Protection	IP66			
Dimension(H x W x T)	103x48x20 mm	103x48x20 mm	120x48x20 mm	120x76x20 mm
Net Weight	100g	100g	120g	150g
Shipment Weight	150g	150g	170g	200g

3. Installation

- Drill 2 holes (A, C) on the wall for the screws and one hole for the cable
- Knock the rubber bungs to the holes (A, C)
- Fix the back cover on the wall with 2 screws
- Thread the cable though the cable hole (B)
- Attach the unit to the back cover



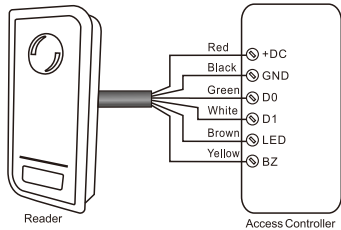
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Wiring

Color	Function	Notes
Red	Power	+DC (9-24V DC)
Black	GND	Ground
Green	D0	Data 0
White	D1	Data 1
Brown	LED	Green LED Light Control
Yellow	Buzzer	Buzzer Control

(Remarks: Brown and Yellow wires are optional connections)

Connection Diagram



4. Functions Table Sheet

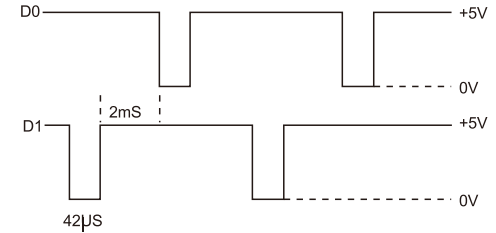
Read Card	The LED light will turn into Green, and the buzzer sounds a beep, at the meantime, the reader outputs the Wiegand signal
External LED Control	When the input voltage for LED is low, the LED will turn into Green
External Buzzer Control	When the input voltage for Buzzer is low, the Buzzer will sounds
Wiegand Data Output	Wiegand 26~37 bits range available for S-RX Series readers, factory default setting is Wiegand 26 bits. HID card can output Wiegand 26~37 bits automatically. EM and Mifare cards are forced to output based on the reader setting

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5. Data Signal

Description	S-RX Series Reader Typical Time
Pulse Width Time	42 μS
Pulse Interval Time	2 mS

The above table shows the wave form of pulse width time (the duration of a pulse) and pulse interval time (the time between pulses) of the Wiegand data output from the readers. (Example 1010)



Packing List

Name	Quantity
Reader	1
Manual	1
Screw Driver	1
Wall Fixing Plugs	2
Self Tapping Screws	2

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FCC STATEMENT :

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.
Warning: 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.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

