

RF Wireless Receiver (Model 0020008 S1PXA-DC12)

Feature:

Application: It can be used in industry automation, agriculture automation and home automation, such as factory, house, farm, pasture, vehicle, ship, offshore operation, aerial vehicle, field call, etc. It can remote control equipments on land, water and air, such as remote control lights, sirens, locks, motors, fans, winches, blinds, linear actuators, doors, windows, electric solenoid valves, security alarm, business signs and various devices.

Wireless control, easy to install.

Universal Power Supply: DC 8~15V.

DC Power Output: It can control DC equipment with voltage DC 8~15V.

High Power: Each channel can work at maximum current 30A.

You can control the equipments by using the receiver with transmitter (remote control) from any place within a reliable distance.

Wireless RF signal can pass through walls, floors, doors or windows.

With reverse power protection and over current protection.

Reliable control: The code has thousands of different combinations, and the receiver only works with the transmitter which use the same code.

One/several transmitters can control one/several receivers simultaneously.

You can use two or more units in the same place.

Receiver Parameters:

Model No.: S1PXA-DC12

Power Supply (Operating Voltage): DC 8~15V

Output: DC 8~15V

Wire range for the terminals: 22-12 AWG

Working Frequency: 433.92MHz

Channel: 1 CH

Control Modes: Self-locking, Momentary, Interlocking, Delay

Static Current: ≤6mA

Maximum Working Current: 30A / each channel

Operating Temperature: -20 ° C to +70 ° C

Case size: 96mm x 50mm x 33mm

Matching Transmitters:

The receiver can work with different transmitters, such as model C-1 / C-2 (100M), CWB-1 / CWB-2 (50M, waterproof), CQ-1 / CQ-2 (50M) or CB-1 / CB-2 (1000M) etc.

When you set the receiver in Self-locking, Momentary or Delay mode, it can work with single button transmitter, such as model C-1 (100M), CWB-1 (50M, waterproof), CQ-1 (500M), or CB-1 (1000M) etc. When you set the receiver in Interlocking mode, it should work with two buttons transmitter, such as model C-2 (100M), CWB-2 (50M, waterproof), CQ-2 (500M), or CB-2 (1000M) etc.

Working Range:

With a transmitter (such as CQ-2) to form a complete set, the maximum working distance can reach 50M in an open ground.

The maximum working distance is a theoretical data, it shall be operated in an open ground, no barriers, no any interference. But in the practice, it will be hindered by trees, walls or other constructions, and will be interfered by other wireless signals. Therefore, the actual distance may not reach this maximum working distance.

If you want to have a further working range, you can install an external antenna to the receiver, and you also can use a powerful transmitter, such as transmitter CB-2.

Usage (with the transmitter CQ-1 / CQ-2):

The receiver can be used to control DC 8~15V equipments.

Wiring:

If you want to control a DC 12V lamp, do as following:

- 1) Connect the positive pole of DC power supply to terminal "V+" of INPUT, and connect the negative pole of DC power supply to terminal "V-" of INPUT.
- 2) Connect the positive pole of lamp to terminal "OUT+" of OUTPUT, and connect the negative pole of lamp to terminal "OUT-" of OUTPUT.

Setting different control modes:

We have set the receiver as Interlocking control mode before delivery. If you want to use other control modes, do as following operation:

- 1) Setting Self-locking mode: Connect two setting terminals until signal LED flashes 3 times, then disconnect.

Control mode Self-locking (working with transmitter CQ-1): Press -> On; Press again -> Off.

Press button of the transmitter: Output terminals output DC power, the lamp is turned on.

Press button again: Output terminals stop outputting, the lamp is turned off.

- 2) Setting Momentary mode: Connect two setting terminals until signal LED continuously flashes 2 times, then disconnect.

Control mode Momentary (working with transmitter CQ-1): Press and hold -> On; Release -> Off.

Press and hold button of the transmitter: Output terminals output DC power, the lamp is turned on.

Release button: Output terminals stop outputting, the lamp is turned off.

- 3) Setting Interlocking mode: Connect two setting terminals until signal LED continuously flashes 1 time, then disconnect.

Control mode Interlocking (working with transmitter CQ-2): Press -> On, Press another button -> Off.

Press button "ON" of the transmitter: Output terminals output DC power, the lamp is turned on.

Press button "OFF" of the transmitter: Output terminals stop outputting, the lamp is turned off.

4) Setting Delay mode: Connect two setting terminals until signal LED continuously flashes 4 times, then disconnect.

Control mode Delay (working with transmitter CQ-1): Press -> ON; Then OFF by itself after 5 seconds.

Press button of the transmitter: Output terminals output DC power, the lamp is turned on.

After 5 seconds: Output terminals stop outputting, the lamp is turned off.

How to pair the transmitter to the receiver:

1) Shortly connect two setting terminals, signal LED on the receiver is on, the receiver enters into status of LEARNING.

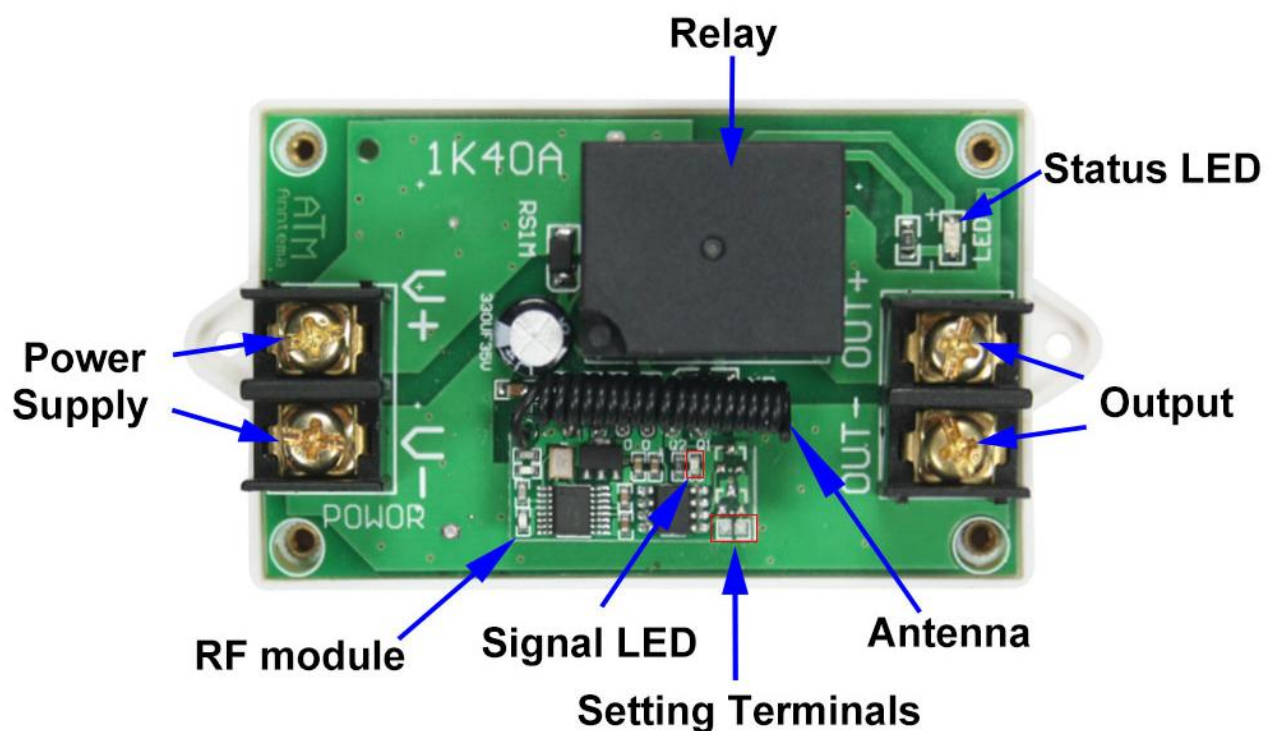
2) First press button "ON" on transmitter, if signal LED flashes one time, it means learning button "ON" is successful. Then press button "OFF" on transmitter, if signal LED flashes one time, it means learning button "OFF" is successful.

3) The receiver can learn several transmitters with different codes.

Delete all transmitters:

We have learned the transmitter to the receiver. If you don't want the receiver to work with the transmitter, you can delete all codes of the transmitters which are stored in the receiver.

Operation: Connect two setting terminals until signal LED continuously flashes 5 times, then disconnect. That means all stored codes have been deleted successfully.



Circuit Diagram

