

## RF Wireless Receiver (Model 0020423 S1X-DC12)

### Package Include:

1 x Receiver: S1X -DC06 / S1X -DC09 / S1X -DC12 / S1X -DC24  
1 x User manual

### 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.

Waterproof: The receiver has waterproof case and waterproof connector, it can be installed outdoors.

DC Power Output: It can control DC equipment with voltage DC 6V / 9V / 12V / 24V.

With wired control terminals: You can connect sensors, limit switches, manual switches or external devices to control the receiver.

You can turn on/ off 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 receiver only works with the transmitter which use 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.: S1X-DC06 / S1X-DC09 / S1X-DC12 / S1X-DC24

Power Supply (Operating Voltage): DC6V (S1X-DC06), DC12V±1V (S1X-DC12), DC9V±1V (S1X-DC09), DC24V±1V (S1X-DC24)

Output: DC6V (S1X-DC06), DC12V (S1X-DC12), DC9V (S1X-DC09), DC24V (S1X-DC24)

Working Frequency: 315MHz / 433MHz

Channel: 1 CH

Control Modes: Toggle, Momentary, Latched

Static Current: ≤6mA

Maximum Working Current: 10A

PCB size: 90mm x 59mm x 18mm

Case size: 100mm x 68mm x 50mm

Work with Fixed code transmitters or Learning code transmitters.

### Terminal Parameters of receiver:

Wire range: ≤12 AWG

Temperature range: -40℃ ~ +105℃

Screw: M3

### Matching Transmitters:

The receiver can work with different transmitters, such as model C-1 / C-2 (100M), CWB-1 / CWB-2 (50M, waterproof), CP-1 / CP-2 (500M), or CB-1 / CB-2 (1000M) etc.

When you set the receiver in toggle or momentary mode, it should work with single button transmitter, such as model C-1 (100M), CWB-1 (50M, waterproof), CP-1 (500M), or CB-1 (1000M) etc. When you set the receiver in latched mode, it should work with two buttons transmitter, such as model C-2 (100M), CWB-2 (50M, waterproof), CP-2 (500M), CV-2 (500M), or CB-2 (1000M) etc.

### Working Range:

With a transmitter (such as C-2) to form a complete set, the maximum working distance can reach 100M 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 CB series transmitters.

### Usage:

The receiver can be used to control DC 6V / 9V / 12V / 24V equipments. If the power supply of those equipments is DC 12V, you should choose the receiver with same DC 12V version; and if the power supply of those equipments is DC 24V, you should choose the receiver with same DC 24V version.

### Wiring:

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

- 1) Connect the positive pole of DC power supply to terminal "L/+", and connect the negative pole of DC power supply to terminal "N/-".
- 2) Connect the positive pole of lamp to terminal " L/+" of OUT 1, and connect the negative pole of lamp to terminal " N/-" of OUT 1.

### Setting different control modes:

Setting different control modes (We have set the receiver as Toggle control mode before delivery. If you want to use other control modes, do as following operation):

Setting control mode Toggle: Only connect Jumper-2.

Control mode Toggle (with the transmitter C-1): Press -> On; Press again -> Off.

Press the transmitter: Turn on the relay, terminal OUT 1 outputs DC power, the lamp is turned on.  
Press the transmitter again: Turn off the relay, terminal OUT 1 stop outputting, the lamp is turned off

Setting control mode Momentary: Only connect Jumper-1.

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

Press and hold the transmitter: Turn on the relay, terminal OUT 1 outputs DC power, the lamp is turned on.

Release the transmitter: Turn off the relay, terminal OUT 1 stop outputting, the lamp is turned off

Setting control mode Latched: Disconnect Jumper-1 and Jumper-2.

Control mode Latched (with the transmitter C-2): Press button 1-> On, other relays Off; Press button 2 -> Off.

Press button 1: Turn on the relay, terminal OUT 1 outputs DC power, the lamp is turned on.

Press button 2: Turn off the relay, terminal OUT 1 stop outputting, the lamp is turned off

#### Wired control terminals:

The receiver has wired control terminals, you can connect external devices, sensors, limit switches or manual switches to trigger the receiver.

##### 1) By low level signal:

You can connect external devices (with low level output signal) to trigger the receiver.

When external device outputs low level signal to terminals 1 (Signal +) and terminal 3 (Signal -), terminal of OUT 1 output DC power, and the lamp is turned on.

When external device stops to output signal, terminal of OUT 1 stop outputting, and the lamp is turned off.

##### 2) By NO/NC contact:

You can connect manual switches (with NO/NC contact) to trigger the receiver.

When connect terminals 1 and 3 by manual switch, terminal of OUT 1 output DC power, and the lamp is turned on.

When disconnect terminals 1 and 3 by manual switch, terminal of OUT 1 stop outputting, and the lamp is turned off.

#### How to pair the transmitter to the receiver:

1) Press the learning button of receiver for 1- 2 seconds; signal LED on the receiver is on. The receiver enters into status of LEARNING.

2) Press any one button on transmitter. If signal LED flashes quickly 15 times and turns off, it means learning is successful.

3) When receiver is in the status of LEARNING, press again the learning button, signal LED turns off, learning process will be discontinued.

4) The receiver can learn several remote controls with different codes.

#### Delete all transmitters:

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

Operation: Press and hold the learning button of receiver until signal LED flashes slowly; release the button, LED keeps slow flash. That means all stored codes have been deleted successfully.



