

## 5000 Meters RF Wireless Receiver (Model 0020135 S2PXW-AC-ANT2)

### 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.

The installation of wireless control is easy and fast.

Super long range, with a transmitter to form a complete set, the working distance can reach 5000m in an open ground.

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

Universal input: Support voltage of AC110V (100V~120V), widely used in US, Canada... and voltage of AC220V (200V~240V), used in UK, France...

AC Power Output: It can control AC equipment with voltage 110V / 120V / 220V / 240V AC.

High Power: Each channel can work at maximum current 30A, such as 3000W/110V, 6000W/220V.

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

External magnetic sucker antenna with 5meters cable, the antenna can be installed outside the building to get better working distance.

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 characteristics of 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.

### Feedback Function:

The receiver and the transmitter have a Two-way working mode, and the user can know the working status of receiver by the transmitter in such a long distance.

Two-way working mode: When you press the remote control to send RF signal to the receiver, if the receiver has been successfully triggered or operated, the receiver will immediately transmit a RF feedback signal to the remote control. Then the remote control will send out a buzzing sound to inform you that the receiver has been successfully operated.

### Receiver Parameters:

Model No. S2PXW-AC220-ANT2

Power Supply (Operating Voltage): AC100~240V (110V/120V/220V/240V)

Output: AC100~240V (110V/120V/220V/240V)

Working Frequency: 433.92MHz

Channel: 2 CH

Control Modes: Toggle, Momentary, Latched

Static Current: ≤6mA

Maximum Working Current: 30A / each channel

PCB size: 140mm x 73mm x 18mm

Case size: 192mm x 100mm x 45mm

### External Magnetic Sucker Antenna:

Frequency Range: 300~450MHz

Impedance: 50Ω

Antenna Length: 15cm

Cable Length: 5m, we also can offer longer cable, such as 10 meters, 30 meters.

Anti-interference, waterproof, shielded wire set inside.

Magnetic stand design for easy to install.

### Matching Transmitters:

This receiver only works with 5000m transmitters, such as model CC-2 / CC-4 (5000M), or CCW-2 / CCW-4 (5000M, waterproof).

When you set the receiver in toggle mode or momentary mode, it should work with two buttons transmitter, such as model CC-2 (5000m), or CCW-2 (5000m, waterproof). When you set the receiver in latched mode, it should work with four buttons transmitter, such as model CC-4 (5000m) or CCW-4 (5000m, waterproof).

### Working Range:

Super long range, with a transmitter (such as CC-2) to form a complete set, the maximum working distance can reach 5000M 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.

### Usage (with the transmitter CC-2):

The receiver can be used to control AC 110~240V equipments.

### Wiring:

If you want to control an AC 220V lamp, do as following:

- 1) Connect the live wire of AC power supply to terminal "L / +" of INPUT, and connect the neutral wire of AC power supply to terminal "N / -" of INPUT.
- 2) Connect one side of AC lamp to terminal "B (L)" of OUTPUT, and connect another side of AC lamp to terminal "A (N)" of OUTPUT.

### Setting different control modes:

We have set the receiver in toggle mode before delivery, if you want to use other modes, do as following operation.

1) Setting control mode Toggle (with transmitter CC-2): Turn on the first bit of the dip switch.

Control mode Toggle: Press -> On; Press again -> Off.

Press the first button of the transmitter: Terminal A and B of OUT1 output AC power, the lamp 1 is turned on.

Press the first button again: Terminal A and B of OUT1 stop outputting, the lamp 1 is turned off.

Press the second button of the transmitter: Terminal A and B of OUT2 output AC power, the lamp 2 is turned on.

Press the second button again: Terminal A and B of OUT2 stop outputting, the lamp 2 is turned off.

2) Setting control mode Momentary (with transmitter CC-2): Turn on the first and the second bits of the dip switch.

Control mode Momentary: Press and hold -> On; Release -> Off.

Press and hold the first button of the transmitter: Terminal A and B of OUT1 output AC power, the lamp 1 is turned on.

Release the first button: Terminal A and B of OUT1 stop outputting, the lamp 1 is turned off.

Press and hold the second button of the transmitter: Terminal A and B of OUT2 output AC power, the lamp 2 is turned on.

Release the second button: Terminal A and B of OUT2 stop outputting, the lamp 2 is turned off.

3) Setting control mode Latched (with transmitter CC-4): Turn on the second bit of the dip switch

Control mode Latched: Press -> On, other relays Off; Press another button -> Off.

Press the button A of the transmitter: Terminal A and B of OUT1 output AC power, the lamp 1 is turned on;

And Terminal A and B of OUT2 stop outputting, the lamp 2 is turned off.

Press the button B of the transmitter: Terminal A and B of OUT2 output AC power, the lamp 2 is turned on;

Terminal A and B of OUT1 stop outputting, the lamp 1 is turned off.

Press the button C of the transmitter: Terminal A and B of OUT1 and OUT2 stop outputting, two lamps are 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 A and B of OUT1 output AC power, and the lamp 1 is turned on.

When the external device stops to output signal, Terminal A and B of OUT1 stop outputting, the lamp 1 is turned off.

When the external device outputs low level signal to manual terminal 2 and terminal 3, Terminal A and B of OUT2 output AC power, the lamp 2 is turned on

When the external device stops to output signal, Terminal A and B of OUT2 stop outputting, the lamp 2 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 A and B of OUT1 output AC power, the lamp 1 is turned on.

when disconnect terminals 1 and 3 by manual switch, Terminal A and B of OUT1 stop outputting, the lamp 1 is turned off.

When connect terminals 2 and 3 by manual switch, Terminal A and B of OUT2 output AC power, the lamp 2 is turned on.

And when disconnect terminals 2 and 3 by manual switch, Terminal A and B of OUT2 stop outputting, the lamp 2 is turned off.

#### **Setting feedback function:**

If you want to switch on the feedback function, you need to turn on the third bit of the dip switch.

When the receiver gets the signal of transmitter, it will immediately send a return signal to the transmitter. When the transmitter receive the feedback signal of the receiver, the transmitter will exude a buzzing sound like "D~" which means it receive the feedback signal successfully.

#### **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 turned on. The receiver starts the LEARNING procedure.

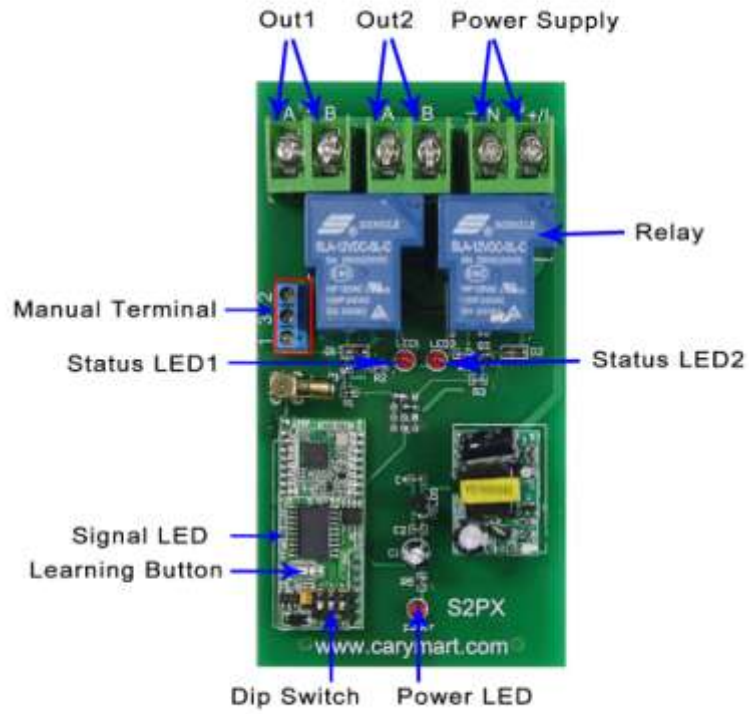
2) Press any one button on transmitter, if signal LED flashes twice, it means learning is successful.

3) The receiver can learn several transmitters 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 three times. That means all stored codes have been deleted successful.



### Control AC Lamp

