

RF Wireless Receiver (Model 0020449)

Feature:

Wireless control, easy to install

Waterproof case with waterproof connectors.

High power, each output can work at maximum 30A current.

Relay power output, can be used in home automation, such as security system, remote control lights, motors, doors / locks / windows / blinds / cars, and various equipment.

The receiver has four input control terminals, you can connect external devices, sensors, or manual switches to these terminals to control the outputs of receiver.

With the external telescopic antenna, it can have a further working range.

With a transmitter (such as CB-4) to form a complete set, the distance can reach 2000m.

It also can be used in agriculture and industry automation, such as long range and high power remote control devices.

You can turn on/off the receiver with transmitter (remote control) from any place within a reliable distance; the wireless RF signal can pass through walls, floors and doors.

With characteristics of reverse power protection and over current protection

Use an 8-bit microprocessor designed and developed with low-power and high-speed CMOS technology.

Reliable control: The transmitter (Encoding) and the receiver (Decoding) use an 8-bit code.

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

If you use two or more units in the same place, you can set them with different codes.

Receiver parameters:

Model No.: S4PU-AC220-ANTS

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

Output: Relay output (Normally open and normally closed)

4 Control Modes: Toggle, Momentary, Latched, Momentary + Toggle

Maximum Working Current: 30A / each channel

Static Current: ≤6mA

PCB size: 170mm x 109mm x 18mm

Case size: 200mm x 120mm x 53mm

Work with Fixed code transmitters or Learning code transmitters.

Transmitters:

The receiver can pair different model transmitters, includes model C-4 (200M), CWB-4 (100M, waterproof), CP-4 (1000M) and CB-4 (2000M) etc...

You also can use four transmitters with one button to work with this receiver, and each transmitter will control receiver's a channel. Such as model C-1 (200m), CWB-1 (100m, waterproof), CP-1 (1000M) and CB-1 (2000M) etc...

External telescopic antenna:

Length of external telescopic antenna: 108mm / 445mm (stretch)

External telescopic antenna use SMA connector.

If you stretches the external telescopic antenna, it can have a further working range, which is twice as much as it used to be.

Weight of external telescopic antenna: 16.5g

The working range:

With a transmitter (such as CB-4) to form a complete set, the distance can reach 2000m. The distance of 2000m 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 exposed to some interference by other signals. Therefore, the actual distance may or may not reach 2000m.

If you want to have a further working range, you can install a magnetic sucker antenna (model 0020910).

Choose Operating Voltage:

If your power supply is AC 110V, you should choose the receiver with AC 110V version; if your power supply is AC 120V, you should choose the receiver with AC 120V version, if your power supply is AC 220V, you should choose the receiver with AC 220V version, if your power supply is AC 240V, you should choose the receiver with AC 240V version.

Usage (with the transmitter like CB-4):

You can use this 4 channel receiver to control 4 DC or AC equipments.

If you want to control four DC 12V lamps, do as following:

Connect DC 12V power to terminals "+" and "-", and connect DC 12V power "+" to terminals "B" of four relays, then connect lamp 1 to terminals "A" of relay 1 and DC 12V power "-", connect lamp 2 to terminals "A" of relay 2 and DC 12V power "-", connect lamp 3 to terminals "A" of relay 3 and DC 12V power "-", connect lamp 4 to terminals "A" of relay 4 and DC 12V power "-".

If you want to control four AC 220V lamps, do as following:

Connect AC 220V power to terminals "L" and "N", and connect AC 220V power "L" to terminals "B" of four relays, then connect lamp 1 to terminals "A" of relay 1 and AC 220V power "N", connect lamp 2 to terminals "A" of relay 2 and AC 220V power "N", connect lamp 3 to terminals "A" of relay 3 and AC 220V power "N", connect lamp 4 to terminals "A" of relay 4 and AC 220V power "N".

Connect AC power to terminal "L" and "N".

Initial state of relay output terminals: Terminals A and B are Normally Open; Terminals A and C are Normally Closed.

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 Latched: Disconnect Jumper-1 and Jumper-2.

Control mode Latched (Channel A,B,C,D): Press -> On, other relays Off; Press other button -> Off.

Such as:

Press button A: Turn on relay 1 (connect A and B, disconnect A and C)
Turn off other relays (disconnect A and B, connect A and C)
Press button B: Turn on relay 2 (connect A and B, disconnect A and C)
Turn off other relays (disconnect A and B, connect A and C)
Press button C: Turn on relay 3 (connect A and B, disconnect A and C)
Turn off other relays (disconnect A and B, connect A and C)
Press button D: Turn on relay 4 (connect A and B, disconnect A and C)
Turn off other relays (disconnect A and B, connect A and C)

Setting control mode Momentary: Only connect Jumper-1.

Control mode Momentary (Channel A,B,C,D): Press and hold -> On; Release -> Off.

Such as:

Press and hold button A: Turn on relay 1 (connect A and B, disconnect A and C)
Release button A: Turn off relay 1 (disconnect A and B, connect A and C)
Press and hold button B: Turn on relay 2 (connect A and B, disconnect A and C)
Release button B: Turn off relay 2 (disconnect A and B, connect A and C)
Press and hold button C: Turn on relay 3 (connect A and B, disconnect A and C)
Release button C: Turn off relay 3 (disconnect A and B, connect A and C)
Press and hold button D: Turn on relay 4 (connect A and B, disconnect A and C)
Release button D: Turn off relay 4 (disconnect A and B, connect A and C)

Setting control mode Toggle: Only connect Jumper-2.

Control mode Toggle (Channel A,B,C,D): Press -> On; Press again -> Off.

Such as:

Press button A: Turn on relay 1 (connect A and B, disconnect A and C)
Press button A again: Turn off relay 1 (disconnect A and B, connect A and C)
Press button B: Turn on relay 2 (connect A and B, disconnect A and C)
Press button B again: Turn off relay 2 (disconnect A and B, connect A and C)
Press button C: Turn on relay 3 (connect A and B, disconnect A and C)
Press button C again: Turn off relay 3 (disconnect A and B, connect A and C)
Press button D: Turn on relay 4 (connect A and B, disconnect A and C)
Press button D again: Turn off relay 4 (disconnect A and B, connect A and C)

Setting control mode Momentary + Toggle: Connect Jumper-1 and Jumper-2.

Control mode Momentary (Channel A,B): Press and hold -> On; Release -> Off.

Press and hold button A: Turn on relay 1 (connect A and B, disconnect A and C)
Release button A: Turn off relay 1 (disconnect A and B, connect A and C)
Press and hold button B: Turn on relay 2 (connect A and B, disconnect A and C)
Release button B: Turn off relay 2 (disconnect A and B, connect A and C)
Control mode Toggle (Channel C,D): Press -> On; Press again -> Off.
Press button C: Turn on relay 3 (connect A and B, disconnect A and C)
Press button C again: Turn off relay 3 (disconnect A and B, connect A and C)
Press button D: Turn on relay 4 (connect A and B, disconnect A and C)
Press button D again: Turn off relay 4 (disconnect A and B, connect A and C)

Input control terminals:

The receiver has four input control terminals, you can connect external devices, sensors, or manual switches to these terminals to control the outputs of receiver.

1) Signal input:

You can connect external devices (with low level output signal) to terminals "COM", "Signal 1", "Signal 2", "Signal 3", "Signal 4", the external device's output signal can control receiver's four outputs.

When the external device outputs low level signal to terminal "COM" and "Signal 1", Relay1 works.

When the external device outputs low level signal to terminal "COM" and "Signal 2", Relay2 works.

When the external device outputs low level signal to terminal "COM" and "Signal 3", Relay3 works.

When the external device outputs low level signal to terminal "COM" and "Signal 4", Relay4 works.

2) The manual switches:

You can connect four manual switches to terminals "COM", "Signal 1", "Signal 2", "Signal 3", "Signal 4", then you can use these manual switches to control the outputs of receiver.

When connect terminals "Signal 1" and "Com", Relay1 works. And when disconnect "Signal 1" and "Com", Relay1 stops outputting.

When connect terminals "Signal 2" and "Com", Relay2 works. And when disconnect "Signal 2" and "Com", Realy2 stops outputting.
 When connect terminals "Signal 3" and "Com", Realy3 works. And when disconnect "Signal 3" and "Com", Realy3 stops outputting.
 When connect terminals "Signal 4" and "Com", Realy4 works. And when disconnect "Signal 4" and "Com", Realy4 stops outputting.

How to pair the transmitter to the receiver:

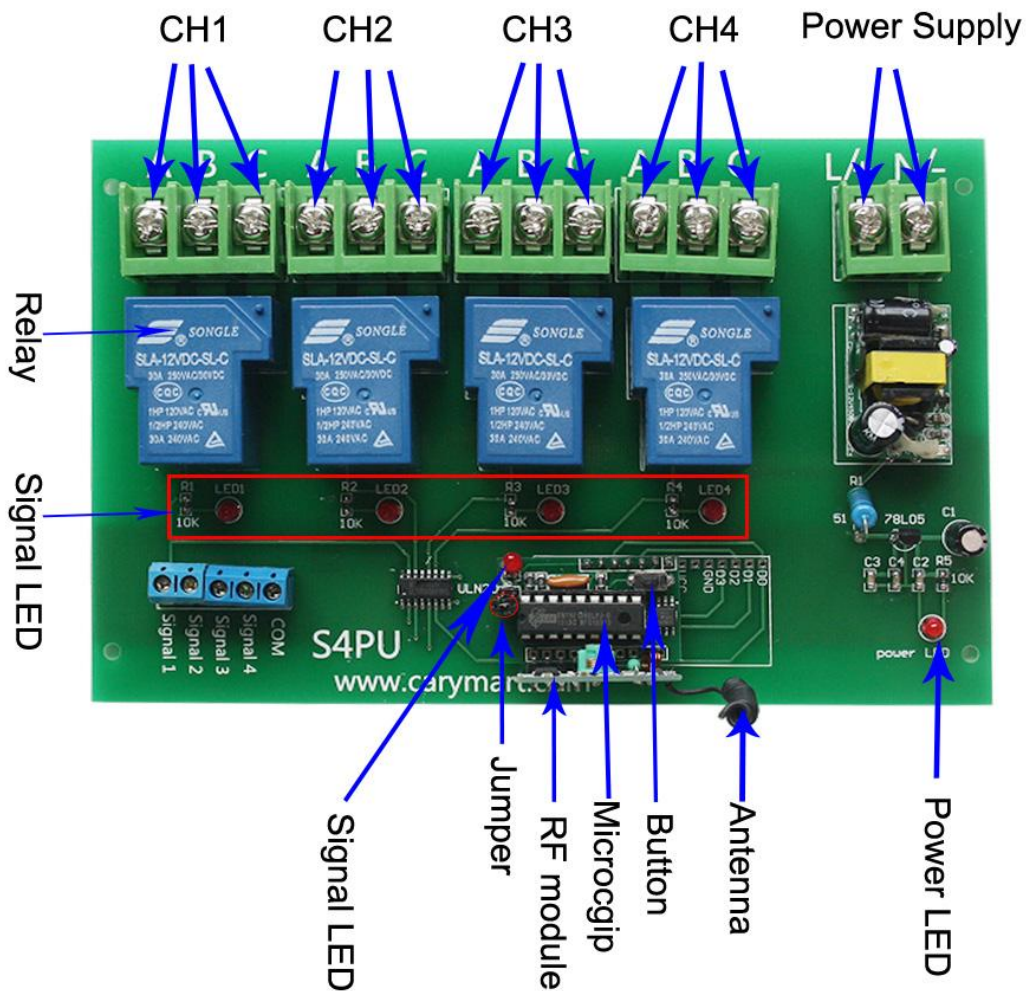
- 1) Press the button of receiver; signal LED on the receiver keeps shining. The receiver enters into status of LEARNING.
- 2) Press any one button on transmitter, if signal LED flashes quickly 15 times and turns off, it means learning is successful.
- 3) When receiver is in the status of LEARNING, press again the button of receiver, signal LED turns off, learning process will be discontinued.
- 4) The receiver can learn several transmitters with different codes.

Delete all transmitters:

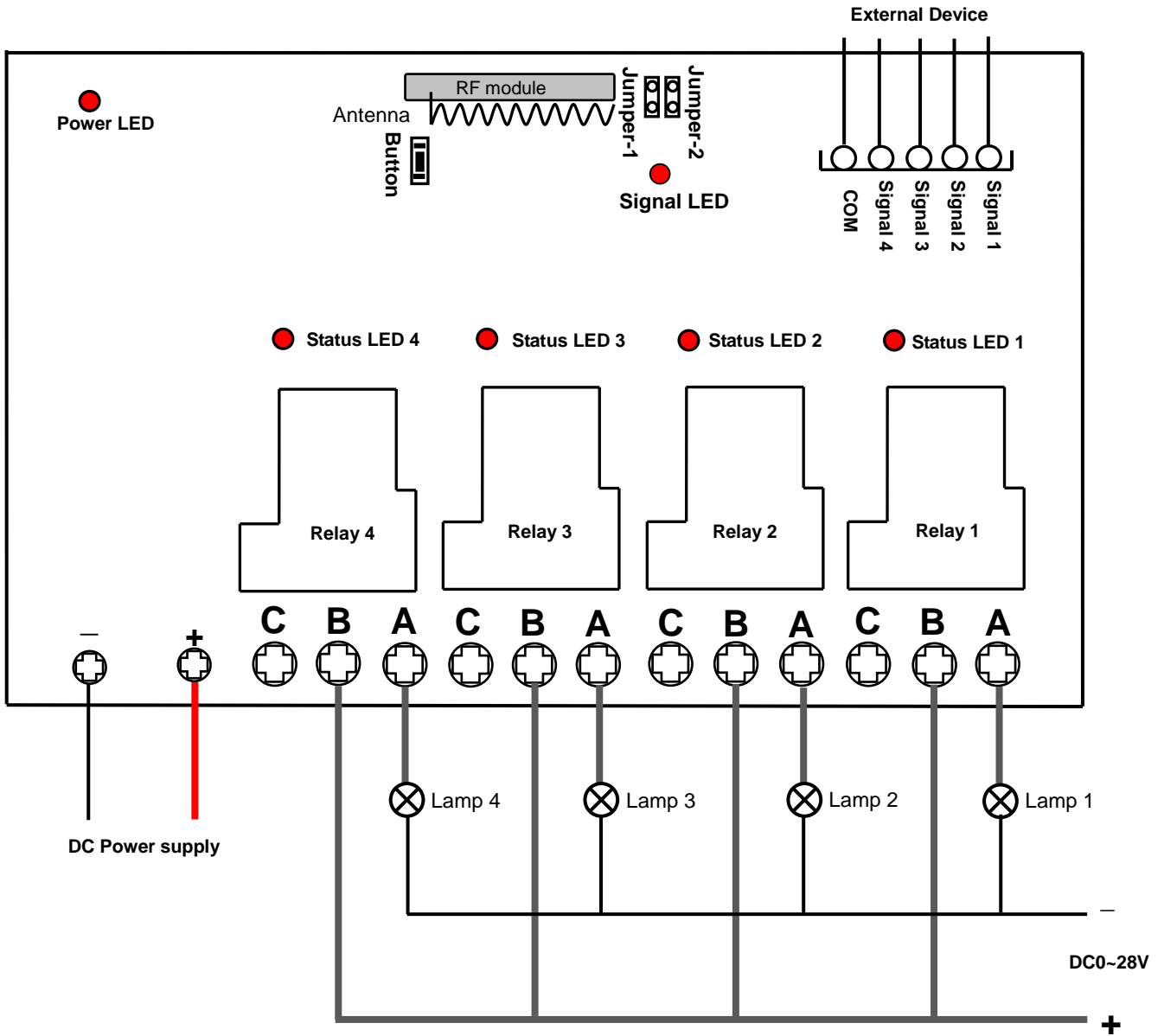
We have learned remote control to the receiver. If you don't want the receiver to work with the remote control, you can delete all codes of remote controls, which are stored in the receiver.

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

A,B=Normally Open;A,C=Normally Closed



Control DC Lamps



Control AC Lamps

