5000 Meters RF Wireless Receiver (Model 0020103)

Feature:
Wireless control, easy to install.
Waterproof case with waterproof connectors. The receiver can be installed outdoors.
High power, each relay output can work at maximum current 30A.
Super long range, with a transmitter to form a complete set, the working distance can reach 5000m in an open ground.
Feedback function: can let the user know whether he/she had already connect the transmitter and receiver successfully in such a long distance.
Two ways working mode, when the receiver gets the signal of transmitter, it will immediately send a return signal to the transmitter.
External magnetic sucker antenna with 5meters cable, the antenna can be installed outside the building to get better working distance.
With manual terminals, can connect two manual switches or sensors to control the receiver.
America imported chips, which can ensure reliability and assure the high quality of the products.
Relay output, can be used in home automation, such as security system, remote control lights, motors, Doors / Locks / Windows / Blinds / Cars, and various equipment.
Universal input: support voltage of AC110V (100V~120V), widely used in US, Canada... and voltage of AC220V (200V~240V), used in UK, France...
It also can be used in agriculture and industry automation, such as long range and high power remote control devices.
Wireless remote control products on land, water and air, especially in a long distance, such as farm, pasture, offshore unmanned operation, field call, remote security alarm, unmanned aerial vehicle, etc.
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
Reliable control: The transmitter (Encoding) and the receiver (Decoding) use the custom 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. S2PUW-AC220-ANT2
Power Supply (Operating Voltage): AC100~240V (110V/120V/220V/240V)
Working Frequency: 433.92MHz
Channel: 2 CH
Control Modes: Toggle, Momentary, Latched
Output: Relay output (Normally open and normally closed)
Working Voltage Range of Relay: AC110~240V or DC0~28V
Maximum Working Current of Relay: 30A
Static Current: ≤6mA
PCB size: 140mm x 73mm x 18mm
Case size: 192mm x 100mm x 45mm
Work with custom code transmitters.

External Magnetic Sucker Antenna:
Frequency Range: 300~450MHz
Impedance: 50Ω
Antenna Length: 15cm
Cable Length: 5meters, we also can offer longer cable, such as 10meters or 30meters.
Weight: 85g
Anti-interference, waterproof, shielded wire set inside
Magnetic stand design for easy to install
With SMA connector

Usage (with the transmitter):
The receiver and transmitter can be used to control both DC0~28V and AC110~240V equipments.
Notice: The receiver is relay output, not DC/AC power output. Initial state of relay output terminals: Terminals A and B are Normally Open; Terminals A and C are Normally Closed.

If you want to control a DC12V lamp, do as following:
1) Connect AC220V power supply's live wire to terminal "L / +" and Connect AC220V power supply's neutral wire to terminal "N / -".
2) Connect Terminal A to the positive pole of the lamp, connect Terminal B to the positive pole of the power supply, and connect both lamp and power supply's negative pole.

If you want to control an AC220V lamp, do as following:
1) Connect AC220V power supply's live wire to terminal "L / +" and Connect AC220V neutral wire to terminal "N / -".
2) Connect Terminal A to one side of the lamp, connect Terminal B to the live wire of the power supply, and connect lamp's another side to power supply's neutral wire.

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 (with transmitter CC-2): Turn on the first bit of the dip switch.
Control mode Toggle: Press -> On; Press again -> Off.

Press the big button of the transmitter: Turn on the relay 1 (connect A and B, disconnect A and C)
Press the big button again: Turn off the relay 1 (disconnect A and B, connect A and C)
Press the small button of the transmitter: Turn on the relay 2 (connect A and B, disconnect A and C)
Press the small button again: Turn off the relay 2 (disconnect A and B, connect A and C)

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 big button of the transmitter: Turn on the relay 1 (connect A and B, disconnect A and C)
Release the big button: Turn off the relay 1 (disconnect A and B, connect A and C)
Press and hold the small button of the transmitter: Turn on the relay 2 (connect A and B, disconnect A and C)
Release the small button: Turn off the relay 2 (disconnect A and B, connect A and C)

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 1 of the transmitter: Turn on the relay 1, and turn off the relay 2.
Press the button 2 of the transmitter: Turn on the relay 2, and turn off the relay1.
Press the button 3 or 4 of the transmitter: Turn off the relays 1 and 2.

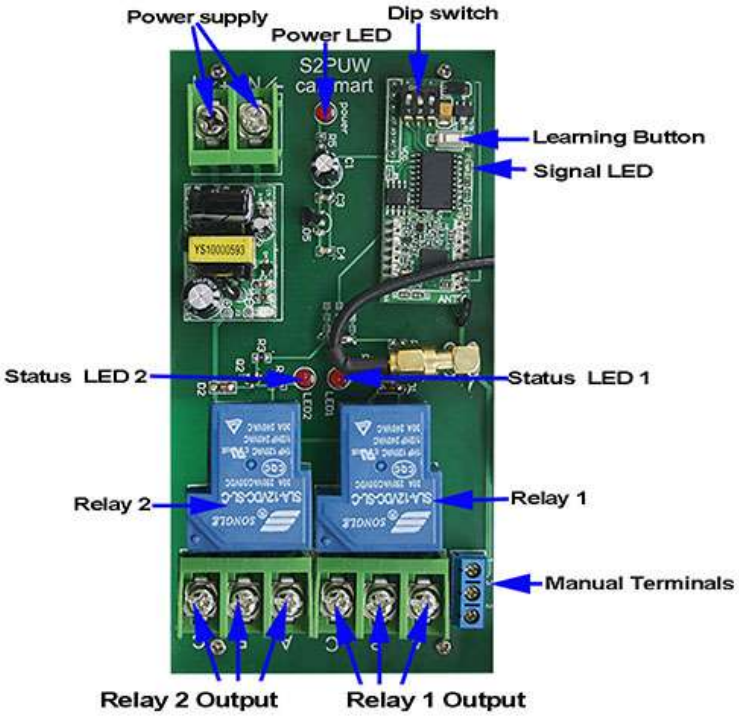
Notice:
The receiver can only pair four different model transmitters, model CC-2 (5000m), CCW-2 / CCW-3 (5000m, waterproof). For example, if you choose to set Toggle mode or Momentary mode, you may use two buttons transmitter (like CC-2) to control receiver. Otherwise, if you choose to set Latched mode, you should use three buttons transmitter (like CCW-3) to control receiver.

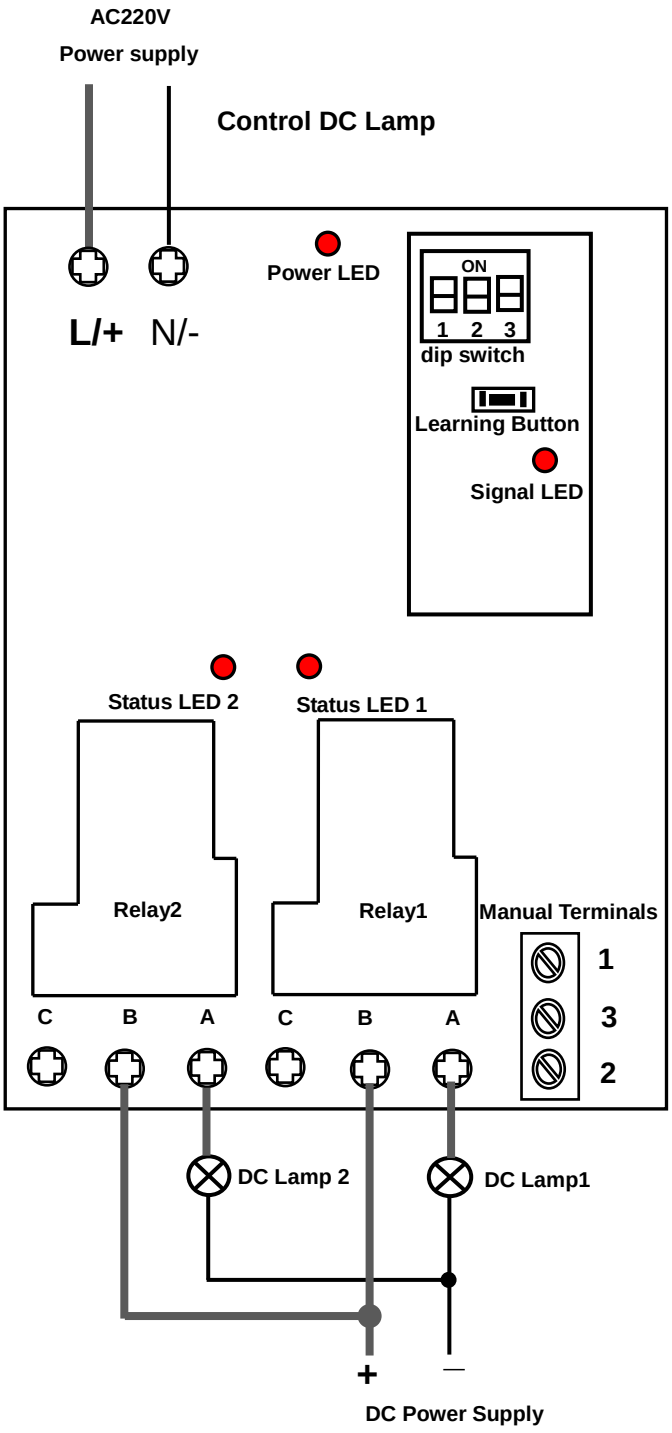
The manual terminals:
You can connect two manual switches or sensors to control the relay outputs of this receiver.
When connect terminals 1 and 3, the relay 1 will turn on (connect A and B, disconnect A and C). And when disconnect terminals 1 and 3, the relay 1 will turn off (disconnect A and B, connect A and C).
When connect terminals 2 and 3, the relay 2 will turn on (connect A and B, disconnect A and C). And when disconnect terminals 2 and 3, the relay 2 will turn off (disconnect A and B, connect A and C).

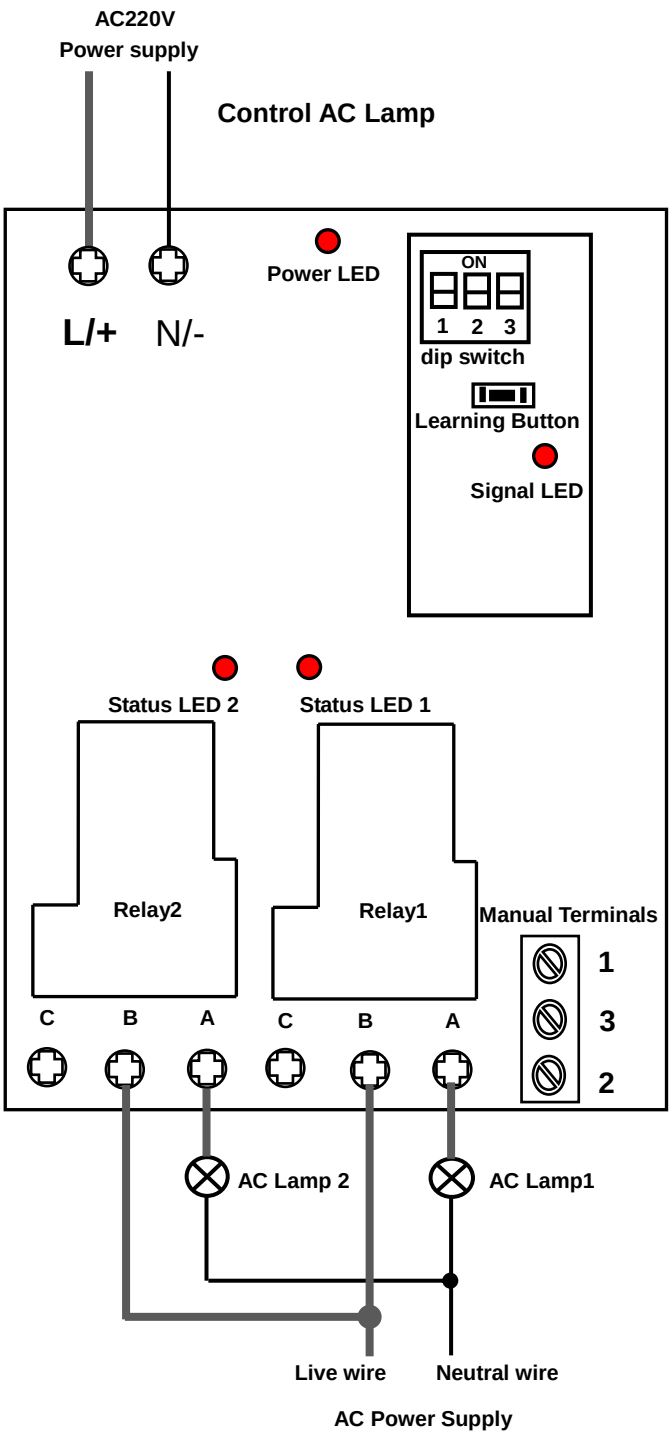
Setting feedback function:
If you want to have a feedback function: Turn on the third bit of the dip switch.
When the receiver gets the signal of transmitter, it will immediately send a return signal to the transmitter. When the transmitter receive the feedback signal of the receiver, the transmitter 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 button K1 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 remote control. If signal LED flashes twice, it means learning is successful.

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 three times. That means all stored codes have been deleted successfully.




AC220V
Power supply
Control DC Lamp
L/+
N/-
Power LED
ON
1 2 3
dip switch
Learning Button
Signal LED
Status LED 2
Status LED 1
Relay2
Relay1
Manual Terminals
C B A C B A
1
3
2
DC Lamp 2
DC Lamp1
+
—
DC Power Supply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Power LED
ON
1 2 3
dip switch
Learning Button
Signal LED
Status LED 2
Status LED 1
Relay2
Relay1
Manual Terminals
C B A C B A
1
3
2
AC Lamp 2
AC Lamp1
Live wire
Neutral wire
AC Power Supply