RF Wireless Receiver (Model 0020044)

Feature:

Wireless control, easy to install

Relay output, can control Lights, Motors, Fans, electrically operated Doors/Locks/Windows/Blinds/Cars or Other Appliances with AC110-240V or DC 0~28V.

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.: S1UD-DC06 / S1UD-DC09 / S1UD-DC12 / S1UD-DC24

Power Supply (Operating Voltage): DC6V (S1UD-DC06), DC12V±1V (S1UD-DC12), DC9V±1V (S1UD-DC09), DC24V±2V (S1UD-DC24)

Working Frequency: 315MHz / 433MHz

Channel: 1 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: 7A

Static Current: ≤10mA

PCB size: 45mm x 30mm x 15mm

Case size: 50mm x 35mm x 23mm

Work with Fixed code transmitters or Learning code transmitters.

The receiver can pair different model transmitters, includes model C-1 / C-2 (100M), CWB-1 / CWB-2 (50M, waterproof), CP-1 / CP-2 (500M) and CB-1 / CB-2 (1000M) etc...

If you want to have a further working range, you can install an external antenna to the receiver, such as magnetic mount antenna (model 0020909), which working range is three times as much as it used to be. Or telescopic antenna (model 0020908), which working range is twice as much as it used to be.

Usage (with the transmitter like C-2):

Connect DC power to terminal "+" and "-".

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

Connect device to terminal "B & C"; connect power supply to terminal "+" and "-".

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: Connect Jumper-2 and Jumper-3.

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

Press button 1 on the transmitter: Turn on the relay (connect B and C, disconnect A and B)

Press button 1 again: Turn off the relay (disconnect B and C, connect A and B)

If you set delay time, such as 30 seconds:

Press button 1: Turn on the relay (connect B and C, disconnect A and B)

After 30 seconds, Turn off the relay automatically (disconnect B and C, connect A and B). Or press button 1 again within 30 seconds: Turn off the relay immediately.

Setting control mode Momentary: Disconnect Jumper.

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

Press and hold button 1: Turn on the relay (connect B and C, disconnect A and B)

Release button 1: Turn off the relay (disconnect B and C, connect A and B)

If you set delay time, such as 20 seconds:

Press and hold button 1: Turn on the relay (connect B and C, disconnect A and B)

After 20 seconds, Turn off the relay automatically (disconnect B and C, connect A and B). And the relay couldn't be turned off by pressing any button within 20 seconds.

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

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

Press button 1: Turn on the relay (connect B and C, disconnect A and B)

Press button 2: Turn off the relay (disconnect B and C, connect A and B)

If you set delay time, such as 10 seconds:

Press button 1: Turn on the relay (connect B and C, disconnect A and B)

After 10 seconds, Turn off the relay automatically (disconnect B and C, connect A and B). Or press button 2 within 10 seconds: Turn off the relay immediately.

How to pair the transmitter to the receiver:

1) Press the learn button of receiver, LED off. The receiver enters into status of LEARNING.

2) Press any one button on remote control. If LED flashes 3 times and turns off, it means learning is successful.

3) When receiver is in the status of LEARNING, you should learn the remote control within 10 seconds, or the receiver will quit the status of LEARNING after 10 seconds.

4) The receiver can learn 16 remote controls with different codes
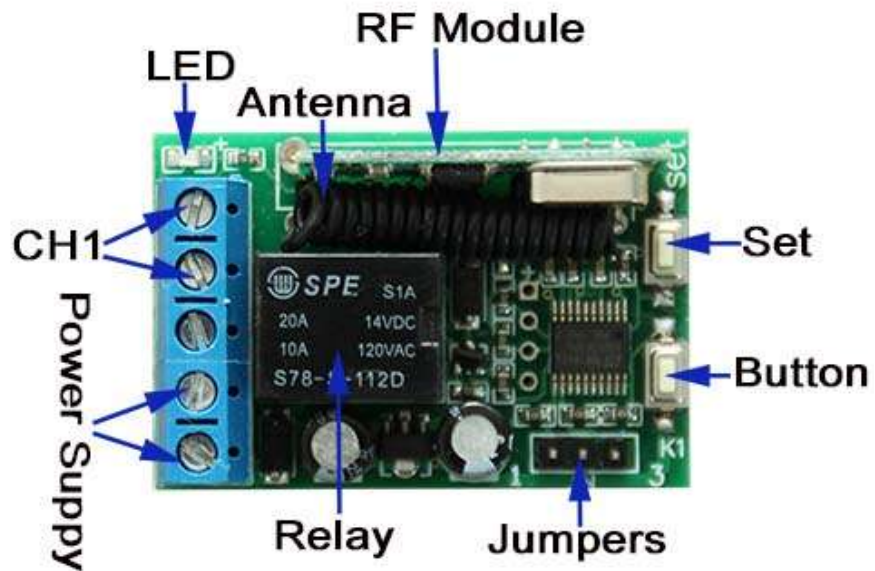
Delay time setting function:

Press the setting button, the LED off, that means enter into the delay time setting mode.

Then you can set delay time through pressing the learn button. Press the learn button, LED will flash once, that means the delay time increase 1 seconds, if you want to delay 30 seconds, you need to press the learn button with 30 times.

You can set longest delay time to 99 seconds.

Press the setting button again, the delay time what you have set will be preserved forever even if you turn off power. After the delay time is preserved by the system, LED will flash 3 times, the system will quit the delay time setting mode.

For example, when you use this receiver to control one lamp, and you already set 30 seconds delay time, you can press button 1 to turn on the lamp, and the lamp will turn off automatically after 30 seconds. If you don't need the delay function, you should clear the delay time.

Clear delay time:

If you don't want to set the delay time, you can operate as following:

Press the setting button and enter into the delay time setting mode, the delay time what you have set will be cleared automatically.

Press the setting button again, LED will flash 3 times, the system will quit the delay time setting mode.
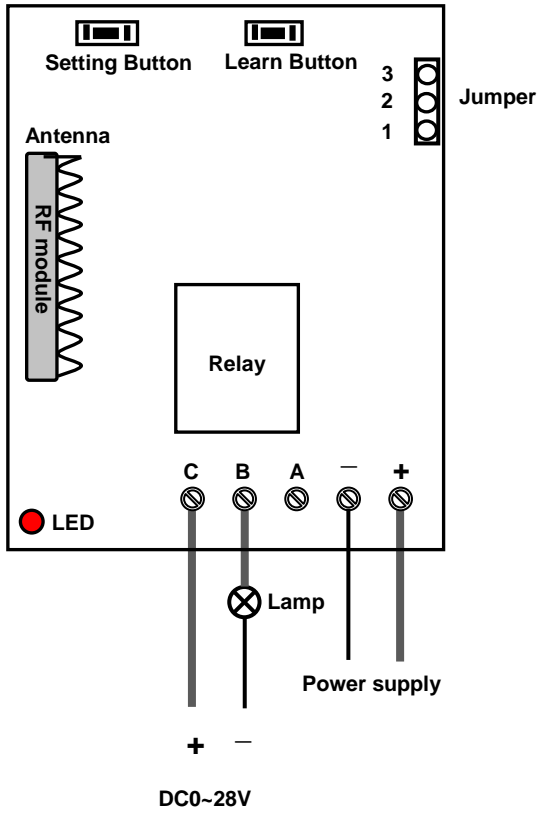
Delete all transmitters:

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 learn button of receiver until LED begin flashes slowly; release the button, LED keeps slow flash. That means all stored codes have been deleted successfully.

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

Control DC Equipment

Setting Button   Learn Button   3
                                  2   Jumper
                                  1

Antenna

RF module

Relay

C   B   A   —   +

LED

⊗ Lamp

Power supply

+   —

DC0~28V

Control AC Equipment

Setting Button   Learn Button   3
                                  2   Jumper
                                  1

Antenna

RF module

Relay

C   B   A   —   +

LED

⊗ Lamp

Power supply

Live wire   Neutral wire

AC110V/120V or AC220V/240V