

## RF Wireless Remote Control Radio Controller / Transmitter & Receiver

### Package Include:

1 x Receiver: S1U-AC220-ANT2 (1 Channel / Three Control Modes)  
1 x Transmitter: CB-2L  
1 x User manual

### Feature:

Wireless control, easy to install

Control Lights, Motors, Fans, electrically operated Doors/Locks/Windows/Blinds/Cars or Other Appliances with AC 110~240V or DC 0~28V.

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

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 over current protection, short-circuit protection and temperature protection.

Audible / visual indication

Use microcontroller model of EM78P156, an 8-bit microprocessor designed and developed with low-power and high-speed CMOS technology.

More reliable than fixed code; the transmitter use EV1527 Learning code, which is up to 1 million codes, reducing code collision and unauthorized code scanning possibilities.

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

Two or more transmitter & receivers set can be used in the same place.

Transmitting Frequency: 315MHz / 433MHz

Working distance of transmitter and receiver with external extend antenna: 2000M / 6000ft (theoretically)

### Receiver:

Model No.: S1U-AC220-ANT2

Channel: 1 CH

Control Modes: Toggle, Momentary, Latched

Coding Type: Fixed code or learning code

Coding Setting: By learning

Power Supply (Operating Voltage): AC100~240V

Working Voltage Range of Relay: AC 110~240V or DC 0~28V

PCB size: 74mm x 52mm x 24mm

Case size: 79mm x 58mm x 35mm

Maximum Working Current: 10A

### External Extend Antenna:

Frequency Range: 300~450MHz

Impedance: 50Ω

Antenna Length: 15cm

Cable Length: 150cm

Weight: 35g

Anti-interference, waterproof, shielded wire set inside

Magnetic stand design for easy to install

### Transmitter:

Model No.: CB-2L

Channel: 2 CH

Remote Control Distance: 1000m / 3000ft (theoretically)

Encode: EV1527 Learning code (up to 1 million codes, reducing code collision and unauthorized code scanning possibilities.)

Unit size: 135mm x 42mm x 25mm

Power Supply: 1 x 6F22-9V battery (included, can be used for 12 months)

### Usage:

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: Press -> On; Press again -> Off.

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

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

Setting control mode Momentary: Only connect Jumper-1.

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

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

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

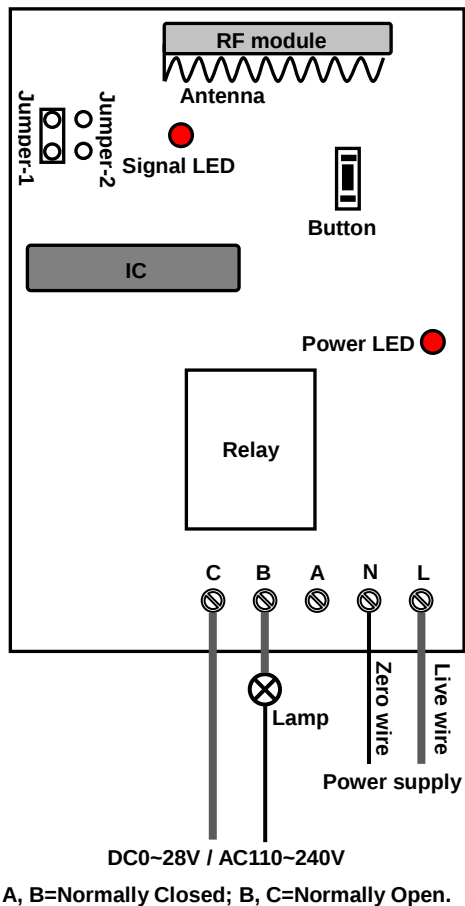
Setting control mode Latched: Do not connect Jumper-1 and Jumper-2.

Control mode Latched: Press -> On, another relay Off; Press another button -> Off.  
 Press big button: Turn on the relay (connect B and C, disconnect A and B)  
 Press small button: Turn off the relay (disconnect B and C, connect A and B)

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.

- Learning the button of remote control:
- 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 remote control. 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 remote controls with different codes.

Application Circuit



Application: For AC motor or lamp

