

## RF Wireless Remote Control Radio Controller / Transmitter & Receiver (Model 0020703)

### Package Include:

1 x Receiver: S4U-AC380  
1 x Transmitter: CV-4-3  
1 x User manual

### 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.

Wireless control, easy to install.

AC380V Power Supply.

Relay Output: This receiver is relay output, it can be used to operate both DC and AC equipments. The terminals are NO / NC (normally open / normally closed), which serves as a switch. That means you should also connect a separate power supply to equipments.

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

You can turn on/ off 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 reverse power protection and over current protection.

Reliable control: The receiver only works with the transmitter which use same 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.: S4U-AC380

Power Supply (Operating Voltage): AC380V

Output: Relay output (Normally open and normally closed)

Working Frequency: 315MHz / 433MHz

Channel: 4 CH

Control Modes: Momentary, Latched

Static Current: ≤6mA

Maximum Working Current: 7 A / each channel

Case size: 96mm x 58mm x 37mm

### Transmitter Parameters:

Model No.: CV-4-3

Shell Color: White

Channel/Button: 4

Button Symbol: Two▲, Two▼,

Operating Voltage: 12V (1 x 23A -12V battery, can be used for 12 months)

Operating Current: 15mA

Operating Frequency: 315Mhz / 433MHz

Encoding Chip: PT2262

Encoding Type: Fixed code by soldering, up to 6561 codes

Transmitting Distance: 500m / 1500ft (theoretically)

Modulation Mode: ASK

Operating Temperature: -20 ° C to +70 ° C

Unit Size: 110mm x 50mm x 18mm

### Matching Transmitters:

The receiver can work with different transmitters, such as model C-4 (100M), CWB-4 (50M, waterproof), CV-4-3 (500M), CP-4 (500M), CB-4 (1000M) etc.

### Working Range:

With a transmitter (such as CV-4-3) to form a complete set, the maximum working distance can reach 500M 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.

If you want to have a further working range, you can install an external antenna to the receiver, and you also can use a powerful transmitter, such as CB series transmitters.

### Usage (with the transmitter CV-4-3):

Notice: The receiver is relay output, not DC/AC power output. Initial state of relay output terminals: Terminals NO and COM are Normally Open; Terminals NC and COM are Normally Closed.

The receiver can be used to control AC 380V pumps, motors and other equipments.

Notice: The receiver can control AC 380V equipment by the contactor, but it can't directly connected to the 380V equipment.

### Wiring:

If you want to control two AC 380V motors, you can connect the receiver, the 380V contactor, the 380V motors and the 380V power according

following circuit diagram, then you use the transmitter to control the AC 380V motor.

#### **Setting different control modes:**

We have set the receiver as Latched control mode before delivery. If you want to use other control modes, do as following operation:

1) Setting control mode Momentary: When the receiver is in the status of LEARNING, press button ▼ of first row of the transmitter.  
Control mode Momentary: Press and hold -> On; Release -> Off.  
Press and hold button ▲ of first row of the transmitter, the contactor 1 is connected, the 380V motor 1 rotates in the positive direction.  
Release button ▲ of first row, the contactor 1 is disconnected, the 380V motor 1 stops.  
Press and hold button ▼ of first row of the transmitter, the contactor 2 is connected, the 380V motor 1 rotates in the reversal direction  
Release button ▼ of first row, the contactor 2 is disconnected, the 380V motor 1 stops.  
Press and hold button ▲ of second row of the transmitter, the contactor 3 is connected, the 380V motor 2 rotates in the positive direction.  
Release button ▲ of second row, the contactor 3 is disconnected, the 380V motor 2 stops.  
Press and hold button ▼ of second row of the transmitter, the contactor 4 is connected, the 380V motor 2 rotates in the reversal direction  
Release button ▼ of second row, the contactor 4 is disconnected, the 380V motor 2 stops.

2) Setting control mode Latched: When the receiver is in the status of LEARNING, press button ▼ of second row of the transmitter.  
Press button ▲ of first row of the transmitter, only the contactor 1 is connected, the 380V motor 1 rotates in the positive direction.  
Press button ▼ of first row of the transmitter, only the contactor 2 is connected, the 380V motor 1 rotates in the reversal direction;  
Press button ▲ of second row of the transmitter, only the contactor 3 is connected, the 380V motor 2 rotates in the positive direction;  
Press button ▼ of second row of the transmitter, only the contactor 4 is connected, the 380V motor 2 rotates in the reversal direction;

#### **Wired control terminals:**

The receiver has manual control terminals, you can connect external devices, sensors (normally open type), or manual switches to control the receiver.

You can connect manual switches to terminals "GND", "KA", "KB", "KC", "KD", "KE", then you can use manual switches to control equipment.

1) Control mode Momentary:

When connect terminals "GND" and "KA", the contactor 1 is connected, the 380V motor 1 rotates in the positive direction.  
And when disconnect "GND" and "KA", the contactor 1 is disconnected, the 380V motor 1 stops.  
When connect terminals "GND" and "KB", the contactor 2 is connected, the 380V motor 1 rotates in the reversal direction.  
And when disconnect "GND" and "KB", the contactor 2 is disconnected, the 380V motor 1 stops.  
When connect terminals "GND" and "KC", the contactor 3 is connected, the 380V motor 2 rotates in the positive direction.  
And when disconnect "GND" and "KC", the contactor 3 is disconnected, the 380V motor 2 stops.  
When connect terminals "GND" and "KD", the contactor 4 is connected, the 380V motor 2 rotates in the reversal direction.  
And when disconnect "GND" and "KD", the contactor 4 is disconnected, the 380V motor 2 stops.

2) Control mode Latched:

When connect terminals "GND" and "KA", only the contactor 1 is connected, the 380V motor 1 rotates in the positive direction.  
When connect terminals "GND" and "KB", only the contactor 2 is connected, the 380V motor 1 rotates in the reversal direction.  
When connect terminals "GND" and "KE", four contactors are disconnected, the 380V motor 1 stops.  
  
When connect terminals "GND" and "KC", only the contactor 3 is connected, the 380V motor 2 rotates in the positive direction.  
When connect terminals "GND" and "KD", only the contactor 4 is connected, the 380V motor 2 rotates in the reversal direction.  
When connect terminals "GND" and "KE", four contactors are disconnected, the 380V motor 2 stops.

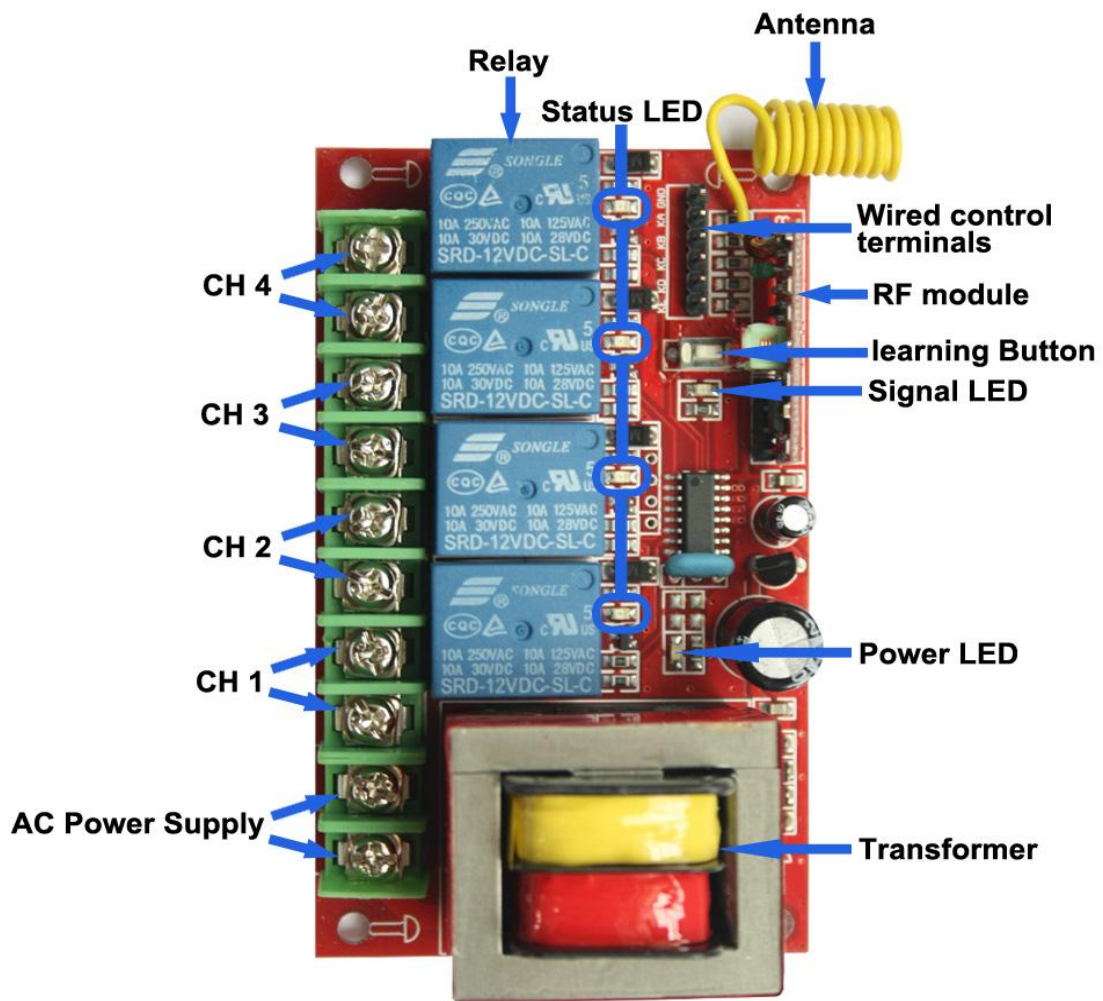
#### **Learning the button of remote control:**

- 1) Press the learning button of the receiver for 1- 2 seconds, release the button, lights on. The receiver enters into status of LEARNING.
- 2) Within 5 seconds, press any button on transmitter. If lights flash five times and lights off, it means learning is successful.
- 3) The receiver can learn several remote controls 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: Pressing learning buttons on the receiver until the signal light flashes, release the button. That means all stored codes have been deleted successfully.



# Circuit Diagram

