

RF Wireless Transmitter & Receiver Kit (Model 0020080)

Package Include:

1 x Receiver: S2PU-AC380
1 x Transmitter: CG-3
1 x User manual

Feature:

Application: It can be used in rolling blinds, rolling doors, projection screens, awnings, pumps, winches, conveyors or other equipments with AC motor. It can remotely control the AC motor to rotate in the forward or reverse direction.

Wireless control, easy to install.

Universal Power Supply: AC 220~380V, support AC 220V, AC 240V, AC 380V.

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.

High Power: Each channel can work at maximum current 30A.

With 3 manual buttons: You can press the manual buttons to control the equipments.

With external telescopic antenna, the receiver have a farther working range.

You can rotate the motor in the positive or reversal direction with the transmitter (remote control) from any place within a reliable distance.

Wireless RF signal can pass through walls, floors, doors or windows.

With characteristics of reverse power protection and over current protection.

Reliable control: The code has thousands of different combinations, and the receiver only works with the transmitter which use the 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.: S2PU-AC380

Power Supply (Operating Voltage): AC 220V~380V (220V/240V/380V)

Output: Relay output (Normally open and normally closed)

Wire range for the terminals: 22-12 AWG

Working Frequency: 433.92MHz

Channel: 2 CH

Control Modes: Interlocking , Momentary

Static Current: $\leq 6\text{mA}$

Maximum Load Current: 30 A / each channel

Operating Temperature: -20°C to $+70^{\circ}\text{C}$

PCB size: 92mm x 86mm x 24mm

Case size: 115mm x 90mm x 40mm

Transmitter Parameters:

Model No.: 0021057 (CG-3)

With Wall Mounted Support

Channel/Button: 3

Button Symbol: ▲, ■, ▼

Operating Voltage: 12V (1 x 27A -12V battery, can be used for 12 months)

Operating Current: 8mA

Operating Frequency: 433.92MHz

Encoding Chip: SC2262

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

Transmitting Distance: 500m / 1500ft (theoretically)

Modulation Mode: ASK

Unit Size: 84mm x 30mm x 10mm

Fixing Bracket size: 87mm x 63mm x 10mm

Matching Transmitters:

The receiver can work with different transmitters, such as model CG-3 (500M) or CB-3-2 (1000M) etc.

Working Range:

With a transmitter (such as CG-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 use a powerful transmitter, such as CB-3-2 transmitter.

Usage (with the transmitter CG-3):

The receiver can be used to control AC 380V pumps, motors and other equipments by the 380V contactors, and it can't directly connected to the 380V equipments.

Notice: The receiver is relay output, not DC/AC power output. Initial state of relay output terminals: Two terminals are Normally Open.

Wiring:

If you want to control a AC 380V motor, you can connect the receiver, the 380V contactor, the 380V motor 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 Interlocking control mode before delivery. If you want to use other control modes, do as following operation:

1) Setting Interlocking mode: Turn on the dip switch 1, and turn off the dip switch 2.

Mode Interlocking (working with transmitter CG-3 or CB-3-2): Press -> On; Press another button -> Off.

Press button ▼ of the transmitter: The relay 1 is deactivated, and the contactor 1 is connected, the 380V motor rotates in the positive direction.

Press button ■ of the transmitter: The relay 1 is deactivated, and the contactor 1 is disconnected, the 380V motor stops.

Press button ▲ of the transmitter: The relay 2 is activated, and the contactor 2 is connected, the 380V motor rotates in the reversal direction.

Press button ■ of the transmitter: The relay 2 is deactivated, and the contactor 2 is disconnected, the 380V motor stops.

2) Setting Momentary mode: Turn off the dip switch 1 and 2.

Mode Momentary (working with transmitter CG-3 or CB-3-2): Press and hold -> On; Release -> Off.

Press and hold button ▼ of the transmitter: The relay 1 is deactivated, and the contactor 1 is connected, the 380V motor rotates in the positive direction.

Release button ▼: The relay 1 is deactivated, and the contactor 1 is disconnected, the 380V motor stops.

Press and hold button ▲ of the transmitter: The relay 2 is activated, and the contactor 2 is connected, the 380V motor rotates in the reversal direction.

Release button ▲: The relay 2 is deactivated, and the contactor 2 is disconnected, the 380V motor stops.

Manual buttons:

Press manual button ▼ of the receiver: The relay 1 is deactivated, and the contactor 1 is connected, the 380V motor rotates in the positive direction.

Press manual button ■ of the receiver: The relay 1 is deactivated, and the contactor 1 is disconnected, the 380V motor stops.

Press manual button ▲ of the receiver: The relay 2 is activated, and the contactor 2 is connected, the 380V motor rotates in the reversal direction.

Press manual button ■ of the receiver: The relay 2 is deactivated, and the contactor 2 is disconnected, the 380V motor stops.

How to pair the transmitter to the receiver:

1) Press the learning button of the receiver, signal LED on the receiver is on, The receiver enters into status of LEARNING.

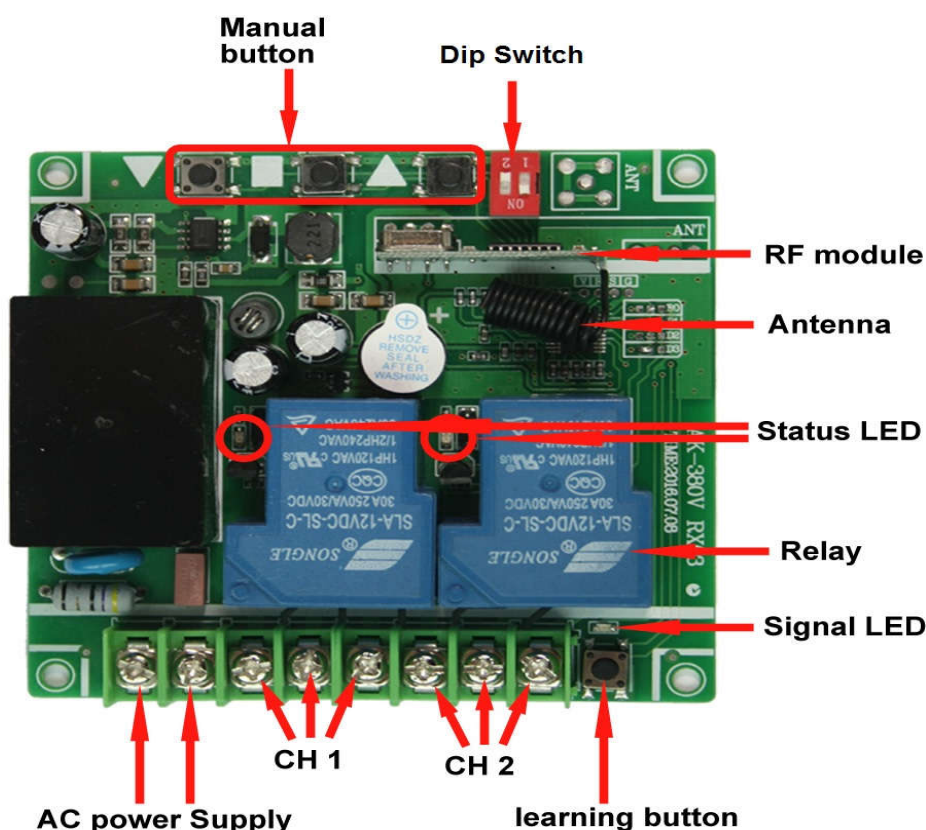
2) Press any button on transmitter within 5 seconds, if signal LED flashes 2 times then turns off, it means learning is successful.

3) The receiver can learn several transmitters with different codes.

Delete all transmitters:

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

Operation: Pressing the learning buttons of the receiver for 6~7 seconds until the signal LED on the receiver flashes 3 times, then release the learning button. That means all stored codes have been deleted successfully.



Circuit Diagram

