

RF Wireless Receiver (Model 0020383 S4U-DC-ANT3)

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.

Power Supply: Four working voltage versions, DC 6V, 9V, 12V, 24V.

Relay Output: This receiver is dry 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.

Each channel can work at maximum current 10A.

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

You can control the equipments by using 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 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.: S4U-DC06-ANT3 /S4U-DC09-ANT3 /S4U-DC12-ANT3 /S4U-DC24-ANT3

Power Supply (Operating Voltage): DC6V (S4U-DC06-ANT3), DC9V±1V (S4U-DC09-ANT3), DC12V±1V (S4U-DC12-ANT3), DC24V±2V (S4U-DC24-ANT3)

Output: Relay output (Normally open and normally closed)

Working Voltage Range of Relay: AC110~240V or DC0~28V

Wire range for the terminals: 22-14 AWG

Working Frequency: 433.92MHz

Channel: 4 CH

Control Modes: Self-locking, Momentary, Interlocking, Momentary + Self-locking

Static Current: ≤6mA

Maximum Load Current: 10A / each channel

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

PCB size: 94mm x 73mm x 21mm

Case size: 100mm x 80mm x 28mm

Matching Transmitters:

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

Working Range:

With a transmitter (such as C-4) to form a complete set, the maximum working distance can reach 100M 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-4 transmitters.

Usage (with the transmitter C-4):

The receiver can be used to control both DC 0~28V and AC 110~240V equipments.

Notice: The receiver is relay output, not DC/AC power output. Initial state of relay output terminals: Terminals B and C are Normally Open; Terminals A and B are Normally Closed.

Wiring:

1) If you want to control a DC 12V lamp, do as following:

1.1 Connect the positive pole of DC power supply to terminal "L / +" of INPUT, and connect the negative pole of DC power supply to terminal "N / -" of INPUT.

1.2 Connect terminal C to the positive pole of DC power supply, connect terminal B to the positive pole of DC lamp, and connect the negative pole of DC lamp to the negative pole of DC power supply.

2) If you want to control an AC 220V lamp, do as following:

2.1 Connect the positive pole of DC power supply to terminal "L / +" of INPUT, and connect the negative pole of DC power supply to terminal "N / -" of INPUT.

2.2 Connect terminal C to the live wire of AC power supply, connect terminal B to one side of AC lamp, and connect another side of AC lamp to the neutral wire of AC power supply.

Setting different control modes:

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

1) Setting Self-locking mode: When the receiver is in the status of LEARNING, press button 1 of the transmitter.

Mode Self-locking (working with transmitter C-4): Press -> On; Press again -> Off.

Press button 1 of the transmitter: The relay 1 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 1 is turned on.

Press button 1 again: The relay 1 is deactivated (disconnect the terminals B and C, connect the terminals A and B), and the lamp 1 is turned off.

Press button 2 of the transmitter: The relay 2 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 2 is turned on.

Press button 2 again: The relay 2 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 2 is turned off.
Press button 3 of the transmitter: The relay 3 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 3 is turned on.
Press button 3 again: The relay 3 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 3 is turned off.
Press button 4 of the transmitter: The relay 4 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 4 is turned on.
Press button 4 again: The relay 4 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 4 is turned off.

2) Setting Momentary mode: When the receiver is in the status of LEARNING, press button 2 of the transmitter.

Mode Momentary (working with transmitter C-4): Press and hold -> On; Release -> Off.

Press and hold button 1 of the transmitter: The relay 1 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 1 is turned on.

Release button 1: The relay 1 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 1 is turned off.

Press and hold button 2 of the transmitter: The relay 2 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 2 is turned on.

Release button 2: The relay 2 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 2 is turned off.

Press and hold button 3 of the transmitter: The relay 3 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 3 is turned on.

Release button 3: The relay 3 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 3 is turned off.

Press and hold button 4 of the transmitter: The relay 4 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 4 is turned on.

Release button 4: The relay 4 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 4 is turned off.

3) Setting Interlocking mode: When the receiver is in the status of LEARNING, press button 4 of the transmitter.

Mode Interlocking (working with transmitter C-4): Press -> On; Press another button -> Off.

Press button 1: The relay 1 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 1 is turned on.

The relays 2, 3, 4 are deactivated (disconnect the terminals B and C, connect the terminals A and B), and the lamps 2, 3, 4 are turned off.

Press button 2: The relay 2 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 2 is turned on.

The relays 1, 3, 4 are deactivated (disconnect the terminals B and C, connect the terminals A and B), and the lamps 1, 3, 4 are turned off.

Press button 3: The relay 3 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 3 is turned on.

The relays 1, 2, 4 are deactivated (disconnect the terminals B and C, connect the terminals A and B), and the lamps 1, 2, 4 are turned off.

Press button 4: Relay of the receiver 4 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 4 is turned on.

The relays 1, 2, 3 are deactivated (disconnect the terminals B and C, connect the terminals A and B), and the lamps 1, 2, 3 are turned off.

4) Setting Mixed mode (Momentary + Self-locking): When the receiver is in the status of LEARNING, press button 3 of the transmitter.

Mode Momentary for channel 1 & 2 (working with transmitter C-4): Press and hold -> On; Release -> Off.

Press and hold button 1 of the transmitter: The relay 1 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 1 is turned on.

Release button 1: The relay 1 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 1 is turned off.

Press and hold button 2 of the transmitter: The relay 2 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 2 is turned on.

Release button 2: The relay 2 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 2 is turned off.

Mode Self-locking for channel 3 & 4 (working with transmitter C-4): Press -> On; Press again -> Off.

Press button 3 of the transmitter: The relay 3 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 3 is turned on.

Press button 3 again: The relay 3 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 3 is turned off.

Press button 4 of the transmitter: The relay 4 is activated (connect the terminals B and C, disconnect the terminals A and B), and the lamp 4 is turned on.

Press button 4 again: The relay 4 is deactivated (disconnect the terminals B and C, connect the terminals A and B, and the lamp 4 is turned off.

How to pair the transmitter to the receiver:

1) Press the learning button 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 transmitter. If signal LED flashes quickly 15 times and turns off, it means learning is successful.

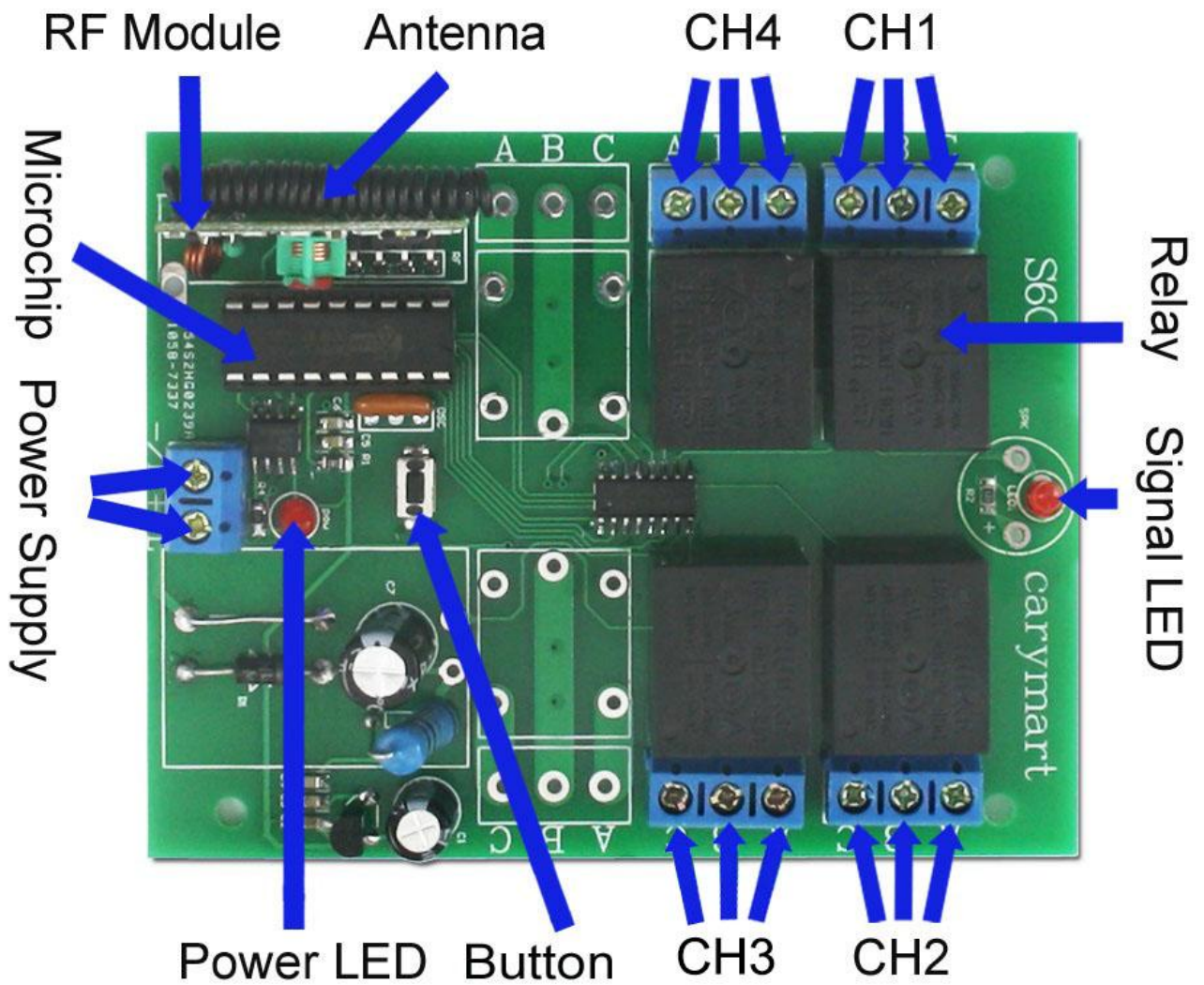
3) When receiver is in the status of LEARNING, press again the learning button, signal LED turns off, learning process will be discontinued.

4) The receiver can learn several remote controls with different codes.

Delete all transmitters:

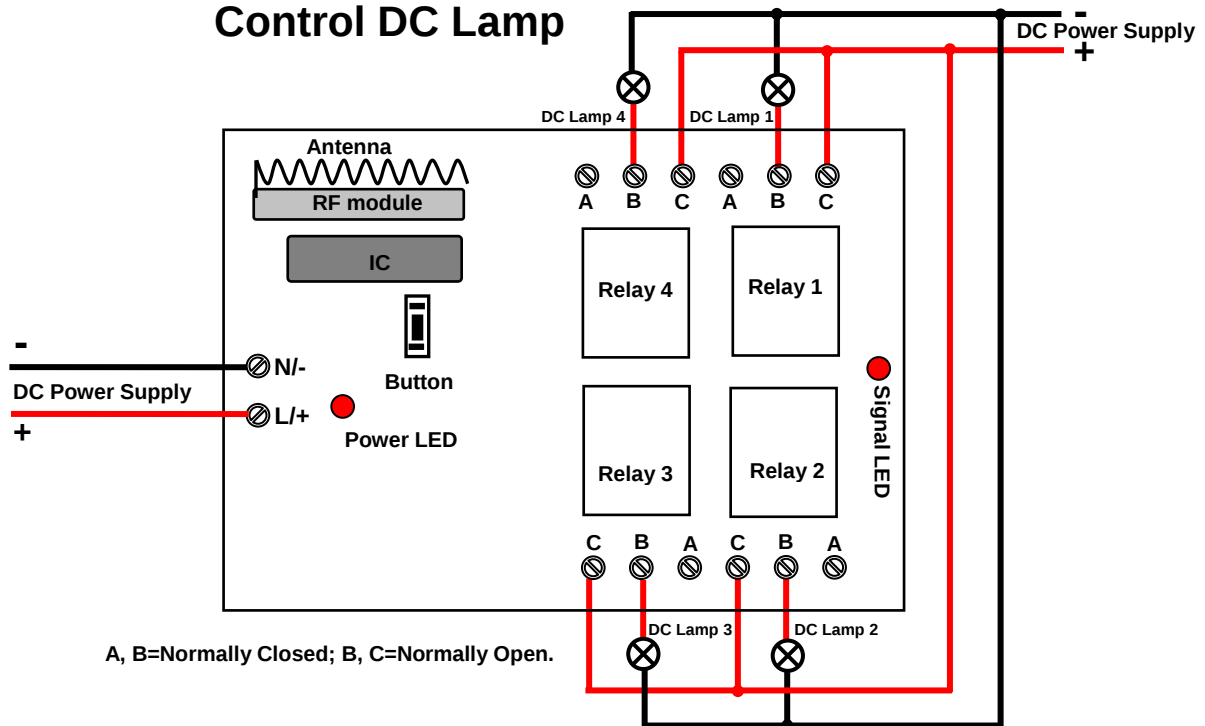
We have learned remote control to the receiver. If you don't want the receiver to work with the remote control, you can delete all codes of remote controls, which are stored in the receiver.

Operation: Press and hold the learning button of receiver until signal LED flashes slowly; release the button, LED keeps slow flash. That means all stored codes have been deleted successfully.



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

Control DC Lamp



Control AC Lamp

