

RF Wireless Remote Control Kit (Model 0020542 S1UA-DC-ANT3 & CB-2N)

Package Include:

1 x Receiver: S1UA-DC06-ANT3 / S1UA-DC09-ANT3 / S1UA-DC12-ANT3 / S1UA-DC24-ANT3
1 x Transmitter: CB-2N
1 x User manual

Feature:

Application: This type of wireless remote control device can use a normally open output device to wirelessly control another AC or DC device, and it can be used for synchronous wireless control of various home, industrial or agricultural equipments, such as wireless control of the warning host and the warning horn, wireless control of the lights, wireless synchronization control of the equipments and so on.

Wireless control, easy to install.

Waterproof: The receiver has waterproof case and waterproof connector, it can be installed outdoors.

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

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

With the external antenna, it can have a further working range.

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.: S1UA-DC06-ANT3 / S1UA-DC09-ANT3 / S1UA-DC12-ANT3 / S1UA-DC24-ANT3

Power Supply (Operating Voltage): DC6V (S1UA-DC06-ANT3), DC9V±1V (S1UA-DC09-ANT3), DC12V±1V (S1UA-DC12-ANT3), DC24V±2V (S1UA-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: 22-12 AWG

Working Frequency: 315MHz

Channel: 1 CH

Control Modes: Latched

Static Current: ≤6mA

Maximum Working Current: 10A

PCB size: 88mm x 80mm x 18mm

Case size: 115mm x 90mm x 55mm

Work with Fixed code transmitters or Learning code transmitters.

External Telescopic Antenna ANT3 For Receiver:

Length of external telescopic antenna: 108mm / 445mm (stretch)

With SMA connector.

If you stretches the external telescopic antenna, it can have a further working range.

Matching Transmitters For Receiver:

The receiver can work with different transmitters, such as model C-2 (100M), CWB-2 (50M, waterproof), CP-2 (500M), or CB-2 (1000M) etc.

Transmitter Parameters:

Model No.: 0021045 (CB-2N)

With Extended Control Wires

Triggering method: connection and disconnection of two wires.

Channel/Button: 2

Button Symbol: A, B

Operating Voltage: 9V (1 x 6F22 -9V battery, can be used for a week, if you want a longer working time, please use 9V Rechargeable Lithium Battery or 9V power adapter.)

Operating Current: 30mA

Operating Frequency: 315 MHz

Transmitting Distance: 1000m / 3000ft (theoretically)

It has an on / off button on the side.

Modulation Mode: ASK

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

Unit Size: 135mm x 42mm x 25mm

The working principle:

Transmitter CB-2N is a special remote control with normally open contact trigger. It has 2 input lines for connecting a variety of devices with normally open contact output, such as warning host, cable detectors, various sensors, manual switches, limit switches, Programmable Logic Controllers and so on. The transmitter can be combined with different types of receivers to form a wireless control system that can be used to wirelessly control another AC or DC device through a device that has a normally open contact output.

Working process:

1. Connect a device A which with normally open output to the two input lines of the transmitter; connect the other device B to the receiver.
2. When the transmitter's two input lines are connected, it automatically emits an "ON" wireless signal, which is equivalent to the function of the button "ON" on the transmitter. When the receiver receives the wireless signal, it will activate its relay to turn on the connected device B.
3. When the transmitter's two input lines are disconnected, it automatically emits an "OFF" wireless signal, which is equivalent to the function of the button "OFF" on the transmitter. When the receiver receives the wireless signal, it will deactivate its relay to turn off the connected device B.

Working Range:

Super long range, with a transmitter (such as CB-2V) to form a complete set, the maximum working distance can reach 2000M 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.

Usage:

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.

A. Wiring:

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

- 1) Connect the positive pole of DC power supply to terminal "L / +", and connect the negative pole of DC power supply to terminal "N / -".
- 2) Connect terminal "NO" to the positive pole of DC power supply, connect terminal "COM" to the positive pole of DC lamp, and connect the negative pole of DC lamp to the negative pole of DC power supply.

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

- 1) Connect the positive pole of DC power supply to terminal "L / +", and connect the negative pole of DC power supply to terminal "N / -".
- 2) Connect terminal "NO" to the live wire of AC power supply, connect terminal "COM" to one side of AC lamp, and connect another side of AC lamp to the neutral wire of AC power supply.

B. Operation:

- 1) Controlling the device by the buttons on the transmitter (CB-2N):

Press button A of the transmitter: the relay is activated (connect "COM" and "NO", disconnect "NC" and "COM"), and the device is turned on.

Press button B of the transmitter: the relay is deactivated (disconnect "COM" and "NO", connect "NC" and "COM"), and the device is turned off.

- 2) Controlling the device by connecting red wire and black wire of the transmitter:

When connecting the red wire and black wire of this transmitter, the transmitter will be triggered and then it will send an RF signal of "ON" to trigger the receiver, the relay is activated (connect "COM" and "NO", disconnect "NC" and "COM"), and the device is turned on.

When disconnecting the red wire and black wire of this transmitter, the transmitter will be triggered and then it will send an RF signal of "OFF" to trigger the receiver, turn off the relay (disconnect "COM" and "NO", connect "NC" and "COM"), and the device is turned off.

C. Wired control terminals:

The receiver has wired control terminals, you can connect external devices, sensors, limit switches or manual switches to trigger the receiver.

- 1) By low level signal:

You can connect external devices (with low level output signal) to trigger the receiver.

When external device outputs low level signal to terminals 1 (Signal +) and terminal 3 (Signal -), the relay is activated (connect "COM" and "NO", disconnect "NC" and "COM"), and the device is turned on.

When external device stops to output signal, turn off the relay (disconnect "COM" and "NO", connect "NC" and "COM"), and the device is turned off.

- 2) By NO/NC contact:

You can connect manual switches (with NO/NC contact) to trigger the receiver.

When connect terminals 1 and 3 by manual switch, the relay is activated (connect "COM" and "NO", disconnect "NC" and "COM"), and the device is turned on.

When disconnect terminals 1 and 3 by manual switch, turn off the relay (disconnect "COM" and "NO", connect "NC" and "COM"), and the device is turned off.

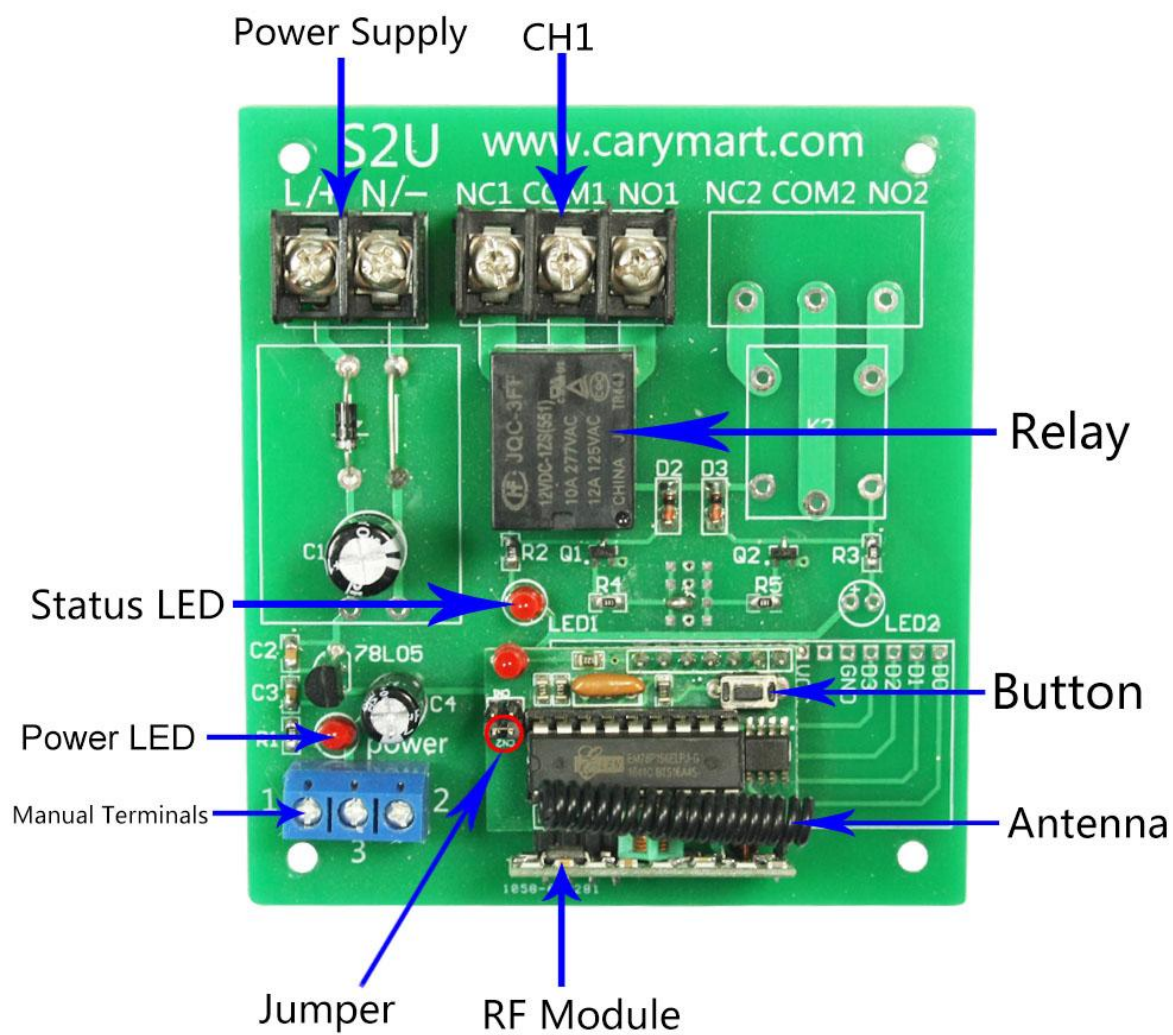
How to pair the transmitter to the receiver:

- 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.

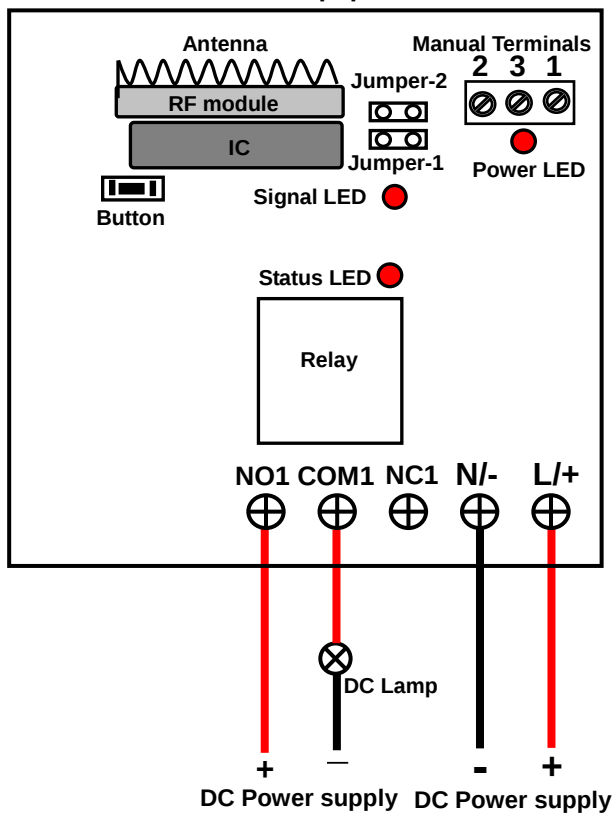
Delete all transmitters:

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.



Control DC Equipment



Control AC Equipment

