

RF Wireless Remote Control Kit (Model 0020521 S1X-DC-ANT3 & CB-2V)

Package Include:

1 x Receiver: S1X-DC06-ANT3 / S1X-DC09-ANT3 / S1X-DC12-ANT3 / S1X-DC24-ANT3
1 x Transmitter: CB-2V
1 x User manual

Feature:

Application: This type of wireless remote control device can use a DC voltage signal or a DC device to wirelessly control another 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.

DC Power Output: It can control DC equipment with voltage DC 6V / 9V / 12V / 24V.

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.: S1X-DC06-ANT3 / S1X-DC09-ANT3 / S1X-DC12-ANT3 / S1X-DC24-ANT3

Power Supply (Operating Voltage): DC6V (S1X-DC06-ANT3), DC12V±1V (S1X-DC12-ANT3), DC9V±1V (S1X-DC09-ANT3), DC24V±1V (S1X-DC24-ANT3)

Output: DC6V (S1X-DC06-ANT3), DC12V (S1X-DC12-ANT3), DC9V (S1X-DC09-ANT3), DC24V (S1X-DC24-ANT3)

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: 90mm x 59mm x 18mm

Case size: 100mm x 68mm x 50mm

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.: CB-2V

With Two Input Wires: Trigger by 5~28V DC Signal

Channel/Button: 2

Operating Voltage: 9V (1 x 6F22 -9V battery, can be used for a week, if you want a longer working time, please use a 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-2V is a special remote control with DC voltage signal trigger. It has 2 input lines for connecting an DC power or DC device, such as DC lamps, DC motors; or connecting a device with DC voltage output, such as warning host, cable detectors, various sensors, 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 DC device through a DC signal or a DC device.

Working process:

1. Connect a DC device A to the two input lines of the transmitter; connect the other device B to the receiver.

2. When the device A outputs the DC voltage to the transmitter, the transmitter 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 device A stops outputting the DC voltage to the transmitter, the transmitter 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 DC 6V / 9V / 12V / 24V equipments. If the power supply of those equipments is DC 12V, you should choose the receiver with same DC 12V version; and if the power supply of those equipments is DC 24V, you should choose the receiver with same DC 24V version.

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 the positive pole of lamp to terminal " L/+" of OUT 1, and connect the negative pole of lamp to terminal " N/-" of OUT 1.

B. Operation:

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

Press button A of the transmitter: Terminals "OUT1" of the receiver outputs DC power, the device is turned on.

Press button B of the transmitter: Terminals "OUT1" of the receiver stops outputting, the device is turned off.

- 2) Controlling the device by the input wires of the transmitter:

When connect 5~28V DC signal to the input wire (the red wire and black wire) of the transmitter, the transmitter sends an RF signal "ON" to trigger the receiver, the output terminals "OUT1" outputs DC power, and the device is turned on.

When disconnect 5~28V DC signal to the input wire, the transmitter sends another RF signal "OFF" to trigger the receiver, the output terminals "OUT1" stops outputting, 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 -), terminal of OUT 1 output DC power, and the device is turned on.

When external device stops to output signal, terminal of OUT 1 stop outputting, 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, terminal of OUT 1 output DC power, and the device is turned on.

When disconnect terminals 1 and 3 by manual switch, terminal of OUT 1 stop outputting, 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.



