

RF Wireless Receiver (Model 0020480)

Features:

Application: It can be used in rolling blinds, rolling doors, projection screens, awnings, pumps, winches, conveyors or other appliances and equipments with DC motors, it can remote control DC motor rotates in the positive or reversal direction.

Wireless control, easy to install.

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

You can rotate two motors separately in the positive or reversal direction with the transmitter (remote control) from any place within a reliable distance; the wireless signal can pass through walls, floors and doors.

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

With limit control terminals: You can connect limit switches or sensors to stop the motor.

With wired control terminals: You can connect manual switches or external devices (with low level output signal, such as sensors) to control the motor.

Use an 8-bit microprocessor designed and developed with low-power and high-speed CMOS technology.

With characteristics of 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: S2PF-DC06 / S2PF-DC09 / S2PF-DC12 / S2PF-DC24

Control Mode: Latched or Momentary

Coding Type: Fixed code or learning code

Coding Setting: By learning

Power Supply (Operating Voltage): DC6V (S2PF-DC06), DC9V±1V (S2PF-DC09), DC12V±1V (S2PF-DC12), DC24V±1V (S2PF-DC24)

Output: DC6V (S2PF-DC06), DC9V (S2PF-DC09), DC12V (S2PF-DC12), DC24V (S2PF-DC24)

Working Frequency: 315MHz / 433MHz

Channel: 2 CH, can work with 2 DC motors

Static Current: ≤6mA

Maximum Working Current: 30A / each channel, so motor's maximum starting current can not exceed 30A.

PCB Size: 170mm x 109mm x 25mm

Case Size: 200mm x 120mm x 53mm

The receiver works with different transmitters, such as model C-4 (100M), CWB-4 (50M, waterproof), CP-4 / CP-6 (500M), CV-4-2 / CV-6-2 (500M), or CB-4 / CB-6 (1000M) etc.

With a transmitter (such as CWB-4) to form a complete set, the working distance can reach 50M in an open ground. The maximum working distance 50M 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 or may not reach 50M. 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 transmitters.

Usage:

Connect the positive pole of DC power supply to terminal “+” of INPUT, and connect the negative pole of DC power supply to terminal “-” of INPUT.

Connect terminals “A1” and “B1” to motor 1; connect terminals “A2” and “B2” to motor 2. You can exchange motor's two wires to change the rotating direction of motor.

Setting control mode Latched: Do not connect Jumper-1 (CN1) or Jumper-2 (CN2)

Press button A: motor 1 rotates in positive direction. Press button B: motor 1 rotates in reversal direction.

Press button C: motor 2 rotates in positive direction. Press button D: motor 2 rotates in reversal direction.

Setting control mode Momentary: Only connect Jumper-1 (CN1)

Press and hold button A: motor 1 rotates in positive direction. Release button A: motor 1 stops.

Press and hold button B: motor 1 rotates in reversal direction. Release button B: motor 1 stops.

Press and hold button C: motor 2 rotates in positive direction. Release button C: motor 2 stops.

Press and hold button D: motor 2 rotates in reversal direction. Release button D: motor 2 stops.

Limit control terminals:

Limit control terminals S1, S2, S3 and S4 are normally open, you can connect limit switches or sensors (normally open type) to terminals S1, S2, S3 and S4, and then you can use limit switches or sensors to stop the motor.

When motor 1 rotates in positive direction, if connect two terminals of S1, the motor 1 will stop automatically.

When motor 1 rotates reversal direction, if connect two terminals of S2, the motor 1 will stop automatically.

When motor 2 rotates in positive direction, if connect two terminals of S3, the motor 2 will stop automatically.

When motor 2 rotates reversal direction, if connect two terminals of S4, the motor 2 will stop automatically.

Wired control terminals:

You can connect manual switches, external devices or sensors (with low level output signal) to control the motor.

1) The manual switches:

You can connect manual switches to terminals “Signal-”, “Signal 1+”, “Signal 2+”, “Signal 3+”, “Signal 4+”, then you can use manual switches to control the motor.

When connect terminals “Signal 1+” and “Signal-”, motor 1 rotates in positive direction. And when disconnect “Signal 1+” and “Signal-”, motor 1 stops.

When connect terminals "Signal 2+" and "Signal-", motor 1 rotates in reversal direction. And when disconnect "Signal 2+" and "Signal-", motor 1 stops.

When connect terminals "Signal 3+" and "Signal-", motor 2 rotates in positive direction. And when disconnect "Signal 3+" and "Signal-", motor 2 stops.

When connect terminals "Signal 4+" and "Signal-", motor 2 rotates in reversal direction. And when disconnect "Signal 4+" and "Signal-", motor 2 stops.

2) Signal input:

You can connect external devices (with low level output signal) to terminals "Signal-", "Signal 1+", "Signal 2+", "Signal 3+", "Signal 4+", then the external device's output signal can control the motor.

When the external device outputs low level signal to terminal "Signal-" and "Signal 1+", motor 1 rotates in positive direction.

When the external device outputs low level signal to terminal "Signal-" and "Signal 2+", motor 1 rotates in reversal direction.

When the external device outputs low level signal to terminal "Signal-" and "Signal 3+", motor 2 rotates in positive direction.

When the external device outputs low level signal to terminal "Signal-" and "Signal 4+", motor 2 rotates in reversal direction.

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.

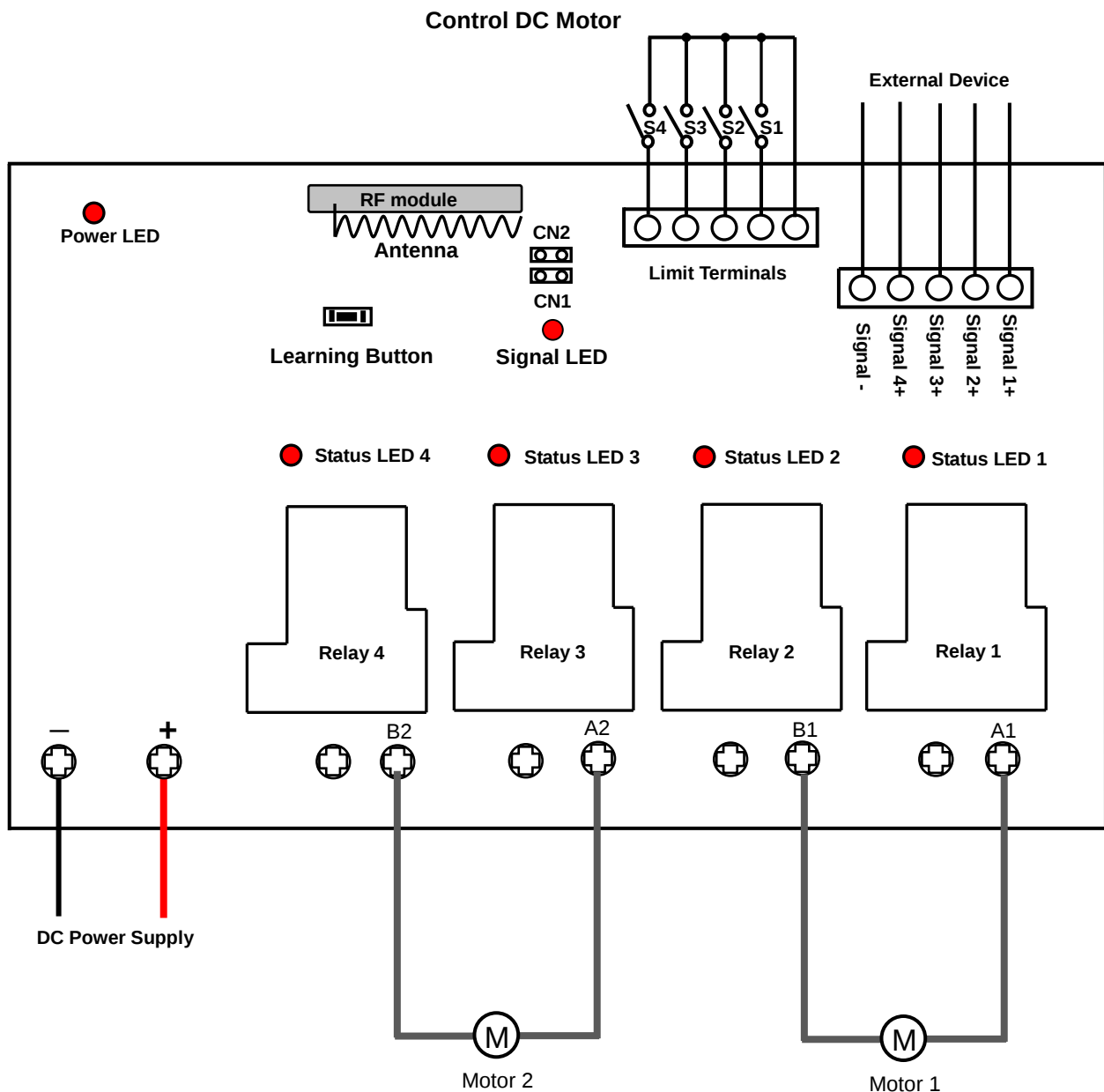
3) When receiver is in the status of LEARNING, press again the button of receiver, signal LED turns off, learning process will be discontinued.

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



Connect Manual Switch

3 Position Round manual switch 2

3 Position Round manual switch 1

