

## RF Wireless Remote Control DC Motor Controller / Transmitter & Receiver

This is the DC motor controller. The DC motor controller can remote control one DC motor (DC12V/24V) rotates in positive/ reversal direction. You can connect two restrictive switches to receiver and use them to stop motor rotation.

### Package Include:

1 x Receiver: S1PF3-DC12 / S1PF3-DC24  
2 x Transmitter: CWC-3  
1 x User manual

### Features:

Wireless control, easy to install

Waterproof case

With high power of 30A

Control DC motors of rolling blinds / doors, projection screens, awnings, pumps, winches, conveyors or other appliances and mechanicals with voltage DC12V / 24V.

You can rotate the motor in 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.

Reliable control: The transmitter (Encoding) and the receiver (Decoding) use an 8-bit code.

One/several transmitters can control one/several receivers simultaneously.

If you use two or more receivers in the same place, you can set them with different codes.

Transmitting Frequency: 315MHz / 433MHz

### Receiver:

Model No.: S1PF3-DC12 / S1PF3-DC24

Coding Type: Fixed code or learning code

Coding Setting: By learning

Power Supply (Operating Voltage): DC12V±1V (S1PF3-DC12), DC24V±1V (S1PF3-DC24)

Output: DC12V (S1PF3-DC12), DC24V (S1PF3-DC24)

Case Size: 100mm x 67mm x 39mm

Quiescent Current: 5mA

Rated Current: 15A

The Maximum Instantaneous Current of Starting Motor: 30A

### Transmitter:

Model No.: 0021102(CWC-3)

Channel: 3 CH

Waterproof

Remote Control Distance: 50m / 300ft (theoretically)

Encode: Fixed code by soldering

Unit Size: 58mm x 30mm x 12mm

Power Supply: 1 x 23A -12V battery (included, can be used for 12 months)

### Usage:

#### Power supply:

Connect power supply DC12V / 24V to terminal "INPUT"; connect motor to terminal "OUTPUT". You can exchange the output wires of motor to change the rotating direction of motor.

#### Function of transmitter:

Press button ▲ on remote: terminal "Output" output DC power, motor rotates in positive direction.

Press button ▼ on remote: terminal "Output" output DC power, motor rotates in reversal direction.

Press button ● on remote: motor stops.

#### Function of manual buttons in receiver:

Press button K3 in receiver: terminal "Output" output DC power, motor rotates in positive direction.

Press button K1 in receiver: terminal "Output" output DC power, motor rotates in reversal direction.

Press button K2 in receiver: motor stops.

#### Restrictive function:

You can connect two restrictive switches to terminals "X1" and "X2", if the restrictive switch X1 or X2 is connected, the motor will rotate; if the restrictive switch X1 or X2 is disconnected, the motor will stop automatically. That means when the restrictive switch "X1" is connected, the motor will rotate in positive direction; when the restrictive switch "X1" is disconnected, motor will stop automatically. When the restrictive switch "X2" is connected, the motor will rotate in reversal direction; when the restrictive switch "X2" is disconnected, motor will stop automatically.

#### Learning the button of transmitter:

1) Press and hold "K3" button of receiver; when signal LED on the receiver begin to shine, release "K3" button. Before signal LED shines 5 seconds, press ▲ button of transmitter, if the signal LED off, that means learning is successful.

2) Press and hold "K2" button of receiver; when signal LED on the receiver begin to shine, release "K2" button. Before signal LED shines 5 seconds, press ● button of transmitter, if the signal LED off, that means learning is successful.

3) Press and hold "K1" button of receiver; when signal LED on the receiver begin to shine, release "K1" button. Before signal LED shines 5 seconds, press ▼ button of transmitter, if the signal LED off, that means learning is successful.

**Delete the button of transmitter:**

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

Press and hold "K3" button of receiver; when signal LED on the receiver begin to shine, then flicker, finally off, that means deleting is successful. Press and hold "K2" button of receiver; when signal LED on the receiver begin to shine, then flicker, finally off, that means deleting is successful. Press and hold "K1" button of receiver; when signal LED on the receiver begin to shine, then flicker, finally off, that means deleting is successful.

**Note:** Before you change from motor rotates in positive direction to reversal direction or from motor rotates in reversal direction to positive direction, you should stop rotating of motor firstly, then remote control motor.

**Application Circuit**

