

RF Wireless Remote Control DC Motor Controller / Transmitter & Receiver

This DC motor controller system includes one transmitter and four controllers. You can use one transmitter to remote control four DC motors (DC6V/9V/12V/24V) rotation in positive/ reversal direction. You also can connect two restrictive switches to each receiver and use them to stop motor rotation.

Package Include:

4 x Receiver: S1PF3-DC06 / S1PF3-DC09/S1PF3-DC12 / S1PF3-DC24
1 x Transmitter: CB-12
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 DC6V / 9V / 12V / 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-DC06 / S1PF3-DC09 / S1PF3-DC12 / S1PF3-DC24
Coding Type: Fixed code or learning code
Coding Setting: By learning
Power Supply (Operating Voltage): DC6V (S1PF3-DC06), DC9V±1V (S1PF3-DC09), DC12V±1V (S1PF3-DC12), DC24V±1V (S1PF3-DC24)
Output: DC6V (S1PF3-DC06), DC9V±1V (S1PF3-DC09), 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.: 0021029 (CB-12)
Channel: 12 CH
Remote Control Distance: 1000m / 3000ft (theoretically)
Encode: Fixed code by soldering
Unit size: 135mm x 42mm x 25mm
Power Supply: 1 x 6F22-9V battery (included, can be used for 12 months)

Usage:

Power supply:

Connect power supply DC6V / 9V / 12V / 24V to terminal "INPUT"; connect motor to terminal "OUTPUT". You can exchange the output wires of motor to change the rotating direction of motor.

Setting control mode Latched: Connect JP1

Function of transmitter:

Press button ▲ on remote: terminal "Output" outputs DC power, motor rotates in positive direction.
Press button ▼ on remote: terminal "Output" outputs 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" outputs DC power, motor rotates in positive direction.
Press button K1 in receiver: terminal "Output" outputs DC power, motor rotates in reversal direction.
Press button K2 in receiver: motor stops.

Setting control mode Momentary: Connect JP2

Function of transmitter:

Press and hold button ▲ on remote: terminal "Output" outputs DC power, motor rotates in positive direction. Release button: motor stops.
Press and hold button ▼ on remote: terminal "Output" outputs DC power, motor rotates in reversal direction. Release button: motor stops.

Function of manual buttons in receiver:

Press and hold button K3 in receiver: terminal "Output" outputs DC power, motor rotates in positive direction. Release button: motor stops.
Press and hold button K1 in receiver: terminal "Output" outputs DC power, motor rotates in reversal direction. Release button: motor stops.

Setting control mode Momentary: Connect Jumper S2

Function of manual buttons in receiver:

Press and hold button K3 in receiver: terminal "Output" output DC power, motor rotates in positive direction. Release button: motor stops.
Press and hold button K1 in receiver: terminal "Output" output DC power, motor rotates in reversal direction. Release button: 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 1; when signal LED on the receiver 1 begin to shine, release "K3" button. Before signal LED shines 5 seconds, press 1 button of transmitter, if the signal LED off, that means learning is successful.
- 2) Press and hold "K2" button of receiver 1; when signal LED on the receiver 1 begin to shine, release "K2" button. Before signal LED shines 5 seconds, press 2 button of transmitter, if the signal LED off, that means learning is successful.
- 3) Press and hold "K1" button of receiver 1; when signal LED on the receiver 1 begin to shine, release "K1" button. Before signal LED shines 5 seconds, press 3 button of transmitter, if the signal LED off, that means learning is successful.
- 4) Press and hold "K3" button of receiver 2; when signal LED on the receiver 2 begin to shine, release "K3" button. Before signal LED shines 5 seconds, press 4 button of transmitter, if the signal LED off, that means learning is successful.
- 5) Press and hold "K2" button of receiver 2; when signal LED on the receiver 2 begin to shine, release "K2" button. Before signal LED shines 5 seconds, press 5 button of transmitter, if the signal LED off, that means learning is successful.
- 6) Press and hold "K1" button of receiver 2; when signal LED on the receiver 2 begin to shine, release "K1" button. Before signal LED shines 5 seconds, press 6 button of transmitter, if the signal LED off, that means learning is successful.
- 7) Press and hold "K3" button of receiver 3; when signal LED on the receiver 3 begin to shine, release "K3" button. Before signal LED shines 5 seconds, press 7 button of transmitter, if the signal LED off, that means learning is successful.
- 8) Press and hold "K2" button of receiver 3; when signal LED on the receiver 3 begin to shine, release "K2" button. Before signal LED shines 5 seconds, press 8 button of transmitter, if the signal LED off, that means learning is successful.
- 9) Press and hold "K1" button of receiver 3; when signal LED on the receiver 3 begin to shine, release "K1" button. Before signal LED shines 5 seconds, press 9 button of transmitter, if the signal LED off, that means learning is successful.
- 10) Press and hold "K3" button of receiver 4; when signal LED on the receiver 4 begin to shine, release "K3" button. Before signal LED shines 5 seconds, press 10 button of transmitter, if the signal LED off, that means learning is successful.
- 11) Press and hold "K2" button of receiver 4; when signal LED on the receiver 4 begin to shine, release "K2" button. Before signal LED shines 5 seconds, press 11 button of transmitter, if the signal LED off, that means learning is successful.
- 12) Press and hold "K1" button of receiver 4; when signal LED on the receiver 4 begin to shine, release "K1" button. Before signal LED shines 5 seconds, press 12 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

