RF Wireless Receiver (Model 0020608 S1PF3-DC12-ANT3)

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 a motor in the positive or reversal direction with the transmitter (remote control) from any place within a reliable distance.
The RF wireless signal can pass through walls, floors and doors.
High Power: Each channel can work at maximum current 15A.
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: S1PF3-DC12-ANT3 / S1PF3-DC24-ANT3
Control Mode: Latched and Momentary
Power Supply (Operating Voltage): DC12V±1V (S1PF3-DC12-ANT3), DC24V±1V (S1PF3-DC24-ANT3)
Output: DC12V (S1PF3-DC12-ANT3), DC24V (S1PF3-DC24-ANT3)
Working Frequency: 315MHz / 433MHz
Channel: 1 CH, can work with one DC motor
Static Current: ≤6mA
Maximum Working Current: **15**A / each channel, so motor's maximum starting current can't exceed **30**A.
Case size: 100mm x 67mm x 39mm
Work with Fixed code transmitters or Learning code transmitters.

Matching Transmitters:

This receiver can work with different transmitters. When you set the receiver in momentary mode, it should work with two button transmitters, such as model C-2-2 (100M), CV-2-2 (500M), or CB-2 (1000M) etc. When you set the receiver in latched mode, it should work with three button transmitters, such as model CWC-3(50M), C-3-2 (100M), or CB-3-2 (1000M) etc.

Working Range:

Super long range, with a transmitter (such as CB-3-2) 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.

External Telescopic Antenna:

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.

Usage:

Connect the positive pole of DC power supply to terminal "VCC" of INPUT, and connect the negative pole of DC power supply to terminal "GND" of INPUT.
Connect terminals "MOTOR" to motor. You can exchange motor's two wires to change the rotating direction of motor.

Setting control mode Latched: Only connect JP1
Function of transmitter (with transmitter CB-3-2):
Press button ▲ on the transmitter: Motor rotates in positive direction.
Press button ▼ on the transmitter: Motor rotates in reversal direction.
Press button ■ on the transmitter: 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: Only connect JP2
Function of transmitter (with transmitter CB-3-2):
Press and hold button ▲ on the transmitter: Motor rotates in positive direction. Release button ▲: Motor stops.
Press and hold button ▼ on the transmitter: 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.

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 1begin to shine, release “K3” button. Before signal LED shines 5 seconds, press ▲ button on the left 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 ■ button on the left 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 ▼ button on the left 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 ▲ button on the right 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 ■ button on the right 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 ▼ button on the right 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.