# RF Wireless Remote Control Radio Controller / Transmitter & Receiver

**Package Include:**
1 x Receiver: S1FU-DC06-ANT2 / S1FU-DC09-ANT2 / S1FU-DC12-ANT2 / S1FU-DC24- ANT2 (Inversion Control Mode)
1 x Transmitter: CB-3-2
1 x User manual

**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 reverse direction.
Wireless control, easy to install.
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.
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:**
Model No: S1FU-DC06- ANT2 / S1FU-DC09- ANT2 / S1FU-DC12- ANT2 / S1FU-DC24- ANT2
Power Supply (Operating Voltage): DC12V±1V (S1FU-DC12- ANT2), DC6V (S1FU-DC06- ANT2), DC9V±1V (S1FU-DC09- ANT2), DC24V±1V (S1FU-DC24- ANT2)
Output: DC12V (S1FU-DC12- ANT2), DC6V (S1FU-DC06- ANT2), DC9V (S1FU-DC09- ANT2), DC24V (S1FU-DC24- ANT2)
Control Modes: Inversion (Momentary, Interlocking)
Coding Type: Fixed code
Coding Setting: By learning
Wire range for the terminals: 22-12 AWG
PCB size: 67mm x 50mm x 18mm
Case size: 75mm x 54mm x 27mm
Static Current: ≤6mA
Maximum Working Current: 10A

**External Extend Antenna:**
Frequency Range: 300~450MHz
Impedance: 50Ω
Antenna Length: 15cm
Cable Length: 150cm
Weight: 35g
Anti-interference, waterproof, shielded wire set inside
Magnetic stand design for easy to install

**Transmitter:**
Model No: CB-3-2
Channel: 3 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:**
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 the motor to Terminals “B” of relay 1 and relay 2. You can exchange motor's two wires to change the rotating direction of motor.

**Setting different control modes**
Setting control mode Momentary: Only connect Jumper-1.
Control mode Momentary: Press and hold -> Rotate; Release -> Stop.
Press and hold button ▲ : Terminals “B” of relay 1 and relay 2 output ＋ DC (1: ＋, 2: －), motor rotates in the positive direction.
Release button ▲: Terminals “B” of relay 1 and relay 2 no output, motor stops
Press and hold button ▼: Terminals “B” of relay 1 and relay 2 output － DC (1: －, 2: ＋), motor rotates in the reversal direction.
Release button ▼: Terminals “B” of relay 1 and relay 2 no output, motor stops

Setting control mode Interlocking: Do not connect Jumper-1 and Jumper-2.
Control mode Latched: Press button ▲ and ▼ -> Rotate; Press button ■ -> Stop.

Press button ▲: Terminals “B” of relay 1 and relay 2 output ＋ DC (1: ＋, 2: －), motor rotates in the positive direction.
Press button ▼: Terminals “B” of relay 1 and relay 2 output － DC (1: －, 2: ＋), motor rotates in the reversal direction.
Press button ■: Terminals “B” of relay 1 and relay 2 no output, motor stops

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.

Learning the button of remote control:
1) Press the button of receiver; signal LED on the receiver keeps shining. The receiver enters into status of LEARNING.
2) Press any one button on remote control. 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.

**Application Circuit**