RF Wireless Remote Control Radio Controller / Transmitter & Receiver

Package Include:
1 x Receiver: S2DA-DC09-ANT2 / S2DA-DC12-ANT2 / S2DA-DC24-ANT2 (2 Channel / Delay Control Mode)
1 x Transmitter: CB-4
1 x User manual

Feature:
Wireless control, easy to install
Adjustable delay time: 0 seconds ~ 99 hours
Control Lights, Motors, Fans, electrically operated Doors / Locks / Windows / Blinds / Cars or Other Appliances.
You can turn on/off the receiver with transmitter (remote control) from any place within a reliable distance; the wireless signal can pass through walls, floors and doors.
With characteristics of reverse power protection and over current protection
Audible / visual indication
Use microcontroller model of EM78P156, an 8-bit microprocessor designed and developed with low-power and high-speed CMOS technology.
Use ULN2003 to drive relay, with strong anti-interference.
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
Working distance of transmitter and receiver with external extend antenna: 2000M / 6000ft (theoretically)

Receiver:
Model No.: S2DA-DC09-ANT2 / S2DA-DC12-ANT2 / S2DA-DC24-ANT2
Channel: 2 CH
Control Mode: Delay (Press -> ON; Then OFF after the delay time)
Adjustable delay time: 0 seconds ~ 99 hours
Coding Type: Fixed code or Learning code
Coding Setting: By learning
Power Supply (Operating Voltage): DC12V±1V (S2DA-DC12-ANT2), DC9V±1V (S2DA-DC09-ANT2), DC24V±1V (S2DA-DC24-ANT2)
Working Voltage Range of Relay: AC110~240V or DC0~28V
PCB size: 93.5mm x 73mm x 27mm
Case size: 100mm x 77mm x 30mm
Maximum Working Current: 10A / each channel

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-4
Channel: 4 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:
Initial state: A, B = Normally Closed; B, C = Normally Open.

1) Press button D on remote: Turn on relay 1 (connect B and C, disconnect A and B).
 After delay time: Turn off relay 1 by itself (disconnect B and C, connect A and B).
 Press button B: Turn off relay 1 immediately, no need to wait for delay time.

2) Press button C on remote: Turn on relay 2 (connect B and C, disconnect A and B).
 After delay time: Turn off relay 2 by itself (disconnect B and C, connect A and B).
 Press button A: Turn off relay 2 immediately, no need to wait for delay time.

Press buttons of "＋" and "－" on the timer, adjust delay time from 0 second to 99 hours. Two buttons of Timer 1 adjust delay time of relay 1; two buttons of Timer 2 adjust delay time of relay 2. "H" is Hour, "M" is Minute, and "S" is Second.
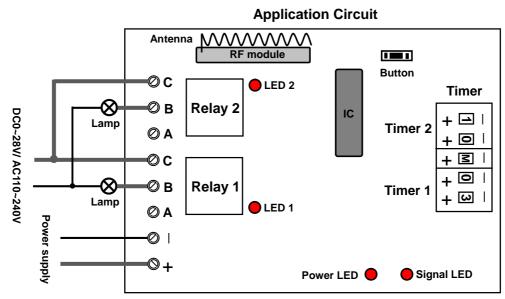For example, if you set "1 0 M 0 3" on Timer, it means the delay time on Timer 1 is 3 minutes; the delay time on Timer 2 is 10 minutes.

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

A, B=Normally Closed; B, C=Normally Open.