RF Wireless Receiver (Model 0020223 S4XW-DC12-ANT3)

Feature:

Application: It can be used in industry automation, agriculture automation and home automation, such as factory, house, farm, pasture, vehicle, ship, offshore operation, aerial vehicle, field call, etc. It can remote control equipments on land, water and air, such as remote control lights, sirens, locks, motors, fans, winches, blinds, linear actuators, doors, windows, electric solenoid valves, security alarm, business signs and various devices.

Wireless control, easy to install.

Waterproof: The receiver has waterproof case and waterproof connector, it can be installed outdoors.

DC Power Output: It can control DC equipment with voltage DC 6V / 9V / 12V / 24V.

With wired control terminals: You can connect sensors, limit switches, manual switches or external devices to control the receiver.

With the external antenna, it can have a further working range.

Design with low-power and high-speed CMOS technology.

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.

Feedback function:

Can let the user know whether he/she had already connect the transmitter and receiver successfully in such a long distance.

Two-way working mode: When you press the remote control to send RF signal to the receiver, if the receiver has been successfully triggered or operated, the receiver will immediately transmit a RF feedback signal to the remote control. Then the remote control will send out a buzzing sound to inform you that the receiver has been successfully operated.

Receiver Parameters:

Model No.: S4XW-DC06-ANT3 / S4XW-DC09-ANT3 / S4XW-DC12-ANT3 / S4XW-DC24-ANT3

Power Supply (Operating Voltage): DC6V (S4XW-DC06-ANT3), DC9V±1V (S4XW-DC09-ANT3), DC12V±1V (S4XW-DC12-ANT3), DC24V±2V (S4XW-DC24-ANT3)

Output: DC6V (S4XW-DC06-ANT3), DC9V (S4XW-DC09-ANT3), DC12V (S4XW-DC12-ANT3), DC24V (S4XW-DC24-ANT3)

Working Frequency: 433.92MHz

Channel: 4 CH

Control Modes: Toggle, Momentary, Latched

Static Current: ≤6mA

Maximum Working Current: 10A / each channel

PCB size: 140mm x 73mm x 18mm

Case size: 192mm x 100mm x 45mm

Work with Learning code transmitters.

Matching Transmitters:

This receiver only works with 5000m transmitters, such as model CC-4 (5000M), or CCW-4 (5000M, waterproof).

Working Range:

Super long range, with a transmitter (such as CC-4) to form a complete set, the maximum working distance can reach 5000M 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 (with the transmitter CC-4):

The receiver can be used to control DC 6V / 9V / 12V / 24V equipments. If the power supply of those equipments is DC 12V, you should choose the receiver with same DC 12V version; and if the power supply of those equipments is DC 24V, you should choose the receiver with same DC 24V version.

Wiring:

If you want to control a DC 12V lamp, do as following:

1) Connect the positive pole of DC power supply to terminal "L / +" of INPUT, and connect the negative pole of DC power supply to terminal "N / -" of INPUT.

2) Connect the positive pole of lamp to terminal "L / +" of OUTPUT, and connect the negative pole of lamp to terminal "N / -" of OUTPUT.

Setting different control modes:

Setting different control modes (We have set the receiver as Toggle control mode before delivery. If you want to use other control modes, do as following operation):

Setting control mode Toggle: Turn on the first bit of the dip switch.

Control mode Toggle (with transmitter CC-4): Press -> On; Press again -> Off.

Press button A of the transmitter: Terminals OUT1 outputs DC power, the lamp1 is on.

Press button A again: Terminals OUT1 stops outputting, the lamp1 is off.

…

Press button D of the transmitter: Terminals OUT4 outputs DC power, the lamp 4 is on.

Press button D again: Terminals OUT4 stops outputting, the lamp 4 is off.

Setting control mode Momentary: Turn on the first and the second bits of the dip switch.

Control mode Momentary (with transmitter CC-4): Press and hold -> On; Release -> Off.

Press and hold button A of the transmitter: Terminals OUT1 outputs DC power, the lamp 1 is on.

Release button A of the transmitter: Terminals OUT1 stops outputting, the lamp 1 is off.

…

Press and hold button D of the transmitter: Terminals OUT4 outputs DC power, the lamp 4 is on.

Release button D of the transmitter: Terminals OUT4 stops outputting, the lamp 4 is off.

Setting control mode Latched: Turn on the second bit of the dip switch.

Control mode Latched (with transmitter CC-4): Press -> On, Press another button -> Off.

Press button A of the transmitter: Terminals OUT1 outputs DC power, the lamp 1 is on.

…

Press button D of the transmitter: Terminals OUT4 outputs DC power, the lamp 4 is on.

Other terminals stop outputting, other lamps are off.

Wired control terminals:

The receiver has manual control terminals, you can connect external devices, sensors, or manual switches to control the receiver.

1) Signal input:

You can connect external devices (with low level output signal) to manual terminals "Signal –", "Signal 1+", "Signal 2+", "Signal 3+" & "Signal 4+", then the external device's output signal can control the receiver.

When the external device outputs low level signal to manual terminal "Signal –" and terminal "Signal 1+", Terminals OUT1 outputs DC power, the lamp 1 is on.

When the external device stops to output signal, Terminals OUT1 stops outputting, the lamp 1 is off.

When the external device outputs low level signal to manual terminal "Signal –" and terminal "Signal 2+", Terminals OUT2 outputs DC power, the lamp 2 is on.

When the external device stops to output signal, Terminals OUT2 stops outputting, the lamp 2 is off.

When the external device outputs low level signal to manual terminal "Signal –" and terminal "Signal 3+", Terminals OUT3 outputs DC power, the lamp 3 is on.

When the external device stops to output signal, Terminals OUT3 stops outputting, the lamp 3 is off.

When the external device outputs low level signal to manual terminal "Signal –" and terminal "Signal 4+", Terminals OUT4 outputs DC power, the lamp 4 is on.

When the external device stops to output signal, Terminals OUT4 stops outputting, the lamp 4 is off.

2) The manual switches:

You can connect manual switch to terminals "Signal –", "Signal 1+", "Signal 2+", "Signal 3+" & "Signal 4+",   and then you can use this manual switch to control the receiver.

When connect terminal "Signal –" and terminal "Signal 1+", Terminals OUT1 outputs DC power, the lamp 1 is on.

And when disconnect terminals "Signal –" and terminal "Signal 1+", Terminals OUT1 stops outputting, the lamp 1 is off.

When connect terminal "Signal –" and terminal "Signal 2+", Terminals OUT2 outputs DC power, the lamp 2 is on.

And when disconnect terminals "Signal –" and terminal "Signal 2+", Terminals OUT2 stops outputting, the lamp 2 is off.

When connect terminal "Signal –" and terminal "Signal 3+", Terminals OUT3 outputs DC power, the lamp 3 is on.

And when disconnect terminals "Signal –" and terminal "Signal 3+", Terminals OUT3 stops outputting, the lamp 3 is off.

When connect terminal "Signal –" and terminal "Signal 4+", Terminals OUT4 outputs DC power, the lamp 4 is on.

And when disconnect terminals "Signal –" and terminal "Signal 4+", Terminals OUT4 stops outputting, the lamp 4 is off.

Setting feedback function:

If you want to have a feedback function: Turn on the third bit of the dip switch.

When the receiver gets the signal of transmitter, it will immediately send a return signal to the transmitter. When the transmitter receive the feedback signal of the receiver, the transmitter will exude a buzzing sound like "D~" which means it receive the feedback signal successfully.

How to pair the transmitter to the receiver:

1) Press the learning button of receiver for 1- 2 seconds; signal LED on the receiver is on. The receiver enters into status of LEARNING.

2) Press any one button on transmitter, if signal LED flashes twice, it means learning is successful.

3) The receiver can learn several transmitters with different codes.

Delete all transmitters:

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 three times. That means all stored codes have been deleted successfully.

Power LED

Dip Switch
Button
Signal LED
Microchip

Status LED
Wired Control Terminal
Relay

Signal 4+
Signal 3+
Signal 2+
Signal 1+
Signal -

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S4X

INPUT N/- L/+
OUT4 N/- L/+
OUT3 N/- L/+
OUT2 N/- L/+
OUT1 N/- L/+

Input
CH4
CH3
CH2
CH1

Control DC Lamp

External Device

Power LED

Learning Button

Signal LED

ON
1
2
3

dip switch

Signal 4+
Signal 3+
Signal 2+
Signal 1+
Signal -

Wired control terminals

● Status LED 4   ● Status LED 3   ● Status LED 2   ● Status LED 1

Relay4   Relay3   Relay2   Relay1

N/- L/+   N/- L/+   N/- L/+   N/- L/+   N/- L/+

INPUT   OUT4   OUT3   OUT2   OUT1

−   +

DC Power supply   Lamp 4   Lamp 3   Lamp 2   Lamp 1