

## RF Wireless Receiver (Model 0020656 S1PDA-AC220-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.

Universal input: Support voltage of AC110V (100V~120V), widely used in US, Canada... and voltage of AC220V (200V~240V), used in UK, France...

Relay Output: This receiver is relay output, it can be used to operate both DC and AC equipments. The terminal is NO / NC (normally open / normally closed), which serves as a switch. That means you should also connect a separate power supply to it.

Adjustable delay time: 0 seconds ~ 99 hours

High Power: Each relay output can work at maximum current 30A. The maximum power of the device is 360W/12V, 250W/9V, 700W/24V, 3000W/110V, 6000W/220V.

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

Use an 8-bit microprocessor designed and developed 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; the wireless RF signal can pass through walls, floors and doors.

With characteristics of 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.

With a transmitter (such as CB-2) to form a complete set, the working distance can reach 2000M in an open ground. The maximum working distance 2000M 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 or may not reach 2000M. If you want to have a further working range, you can install an external telescopic antenna or an external sucker antenna to the receiver, and you also can use a powerful transmitter, such as CV or CB transmitters.

### Receiver:

Model No.: S1PDA-AC220-ANT3

Power Supply (Operating Voltage): AC100~240V (110V/120V/220V/240V)

Output: Relay output (Normally open and normally closed)

Working Voltage Range of Relay: AC110~240V or DC0~28V

Transmitting Frequency: 315MHz / 433MHz

Channel: 1 CH

Control Mode: Delay (Press -> ON; Then OFF after the delay time)

Adjustable delay time: 0 seconds ~ 99 hours

Maximum Working Current: 30A / each channel

Static Current: ≤6mA

PCB size: 170mm x 109mm x 18mm

Case size: 200mm x 120mm x 53mm

Work with Fixed code transmitters or Learning code transmitters.

The receiver works with different transmitters, such as model C-1 / C-2 (100M), CWB-1 / CWB-2 (50M, waterproof), CP-1 / CP-2 (500M), or CB-1 / CB-2 (1000M), CBW-1 / CBW-2 (1000M, waterproof)etc.

### External telescopic antenna:

Length of external telescopic antenna: 108mm / 445mm (stretch)

External telescopic antenna use SMA connector.

If you stretches the external telescopic antenna, it can have a further working range, which is twice as much as it used to be.

Weight of external telescopic antenna: 16.5g

### Usage (with the transmitter C-2):

The receiver can be used to control both DC 0~28V and AC 110~240V equipments.

Notice: The receiver is relay output, not DC/AC power output. Initial state of relay output terminals: Terminals A and B are Normally Open; Terminals A and C are Normally Closed.

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

- 1) Connect the live wire of AC power supply to terminal "L / +" of INPUT, and connect the neutral wire of AC power supply to terminal "N / -" of INPUT.
- 2) Connect terminal B to the positive pole of DC power supply, connect terminal A to the positive pole of DC lamp, and connect the negative pole of DC lamp to the negative pole of DC power supply.

If you want to control an AC 220V lamp, do as following:

- 1) Connect the live wire of AC power supply to terminal "L / +" of INPUT, and connect the neutral wire of AC power supply to terminal "N / -" of INPUT.
- 2) Connect terminal B to the live wire of AC power supply, connect terminal A to one side of AC lamp, and connect another side of AC lamp to the neutral wire of AC power supply.

Press button 1: Turn on relay (connect A and B, disconnect A and C), the lamp is on.

After delay time: Turn off relay by itself (disconnect A and B, connect A and C), the lamp is off.

Press button 2: Turn off relay immediately, no need to wait for delay time.

Press buttons of “+” and “-” on the timer, adjust delay time from 0 second to 99 hours. “H” is Hour, “M” is Minute, and “S” is Second. For example, if you set “S 0 1”, it means the delay time is 1 second.

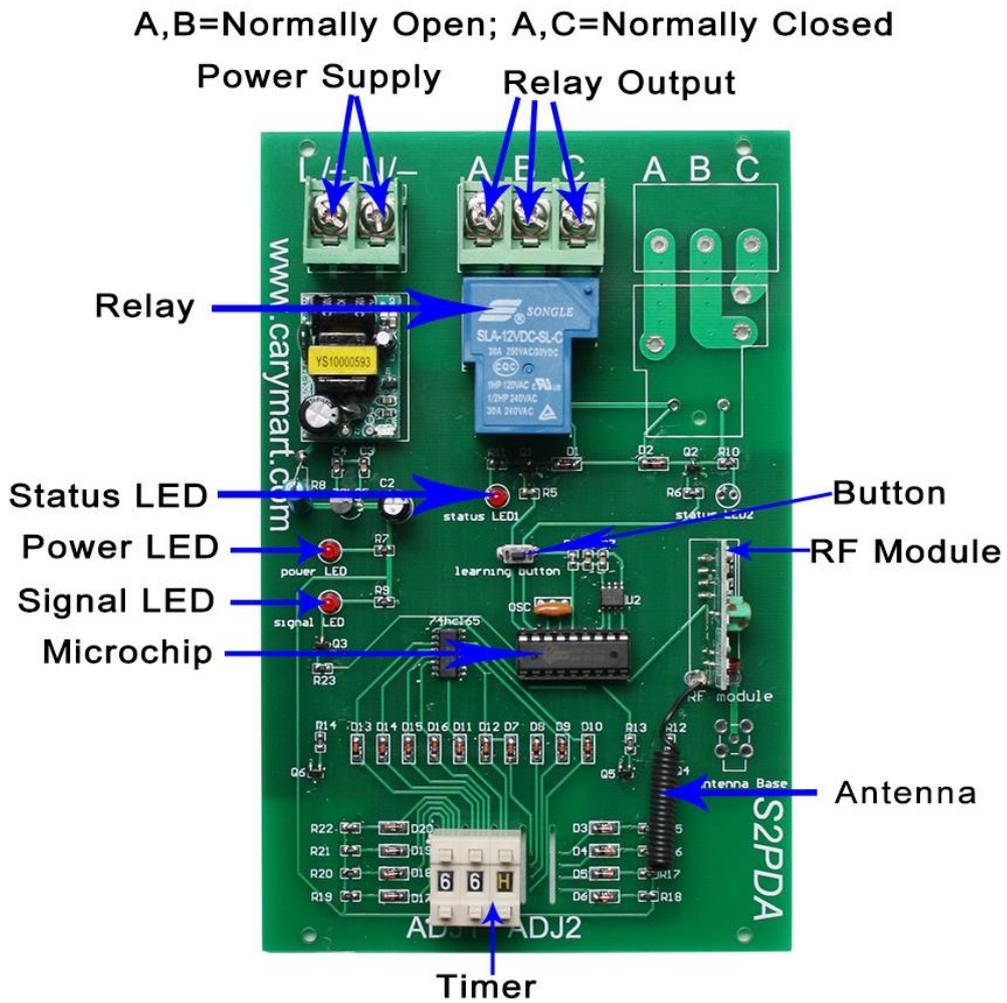
**How to pair the transmitter to the receiver:**

- 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 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.

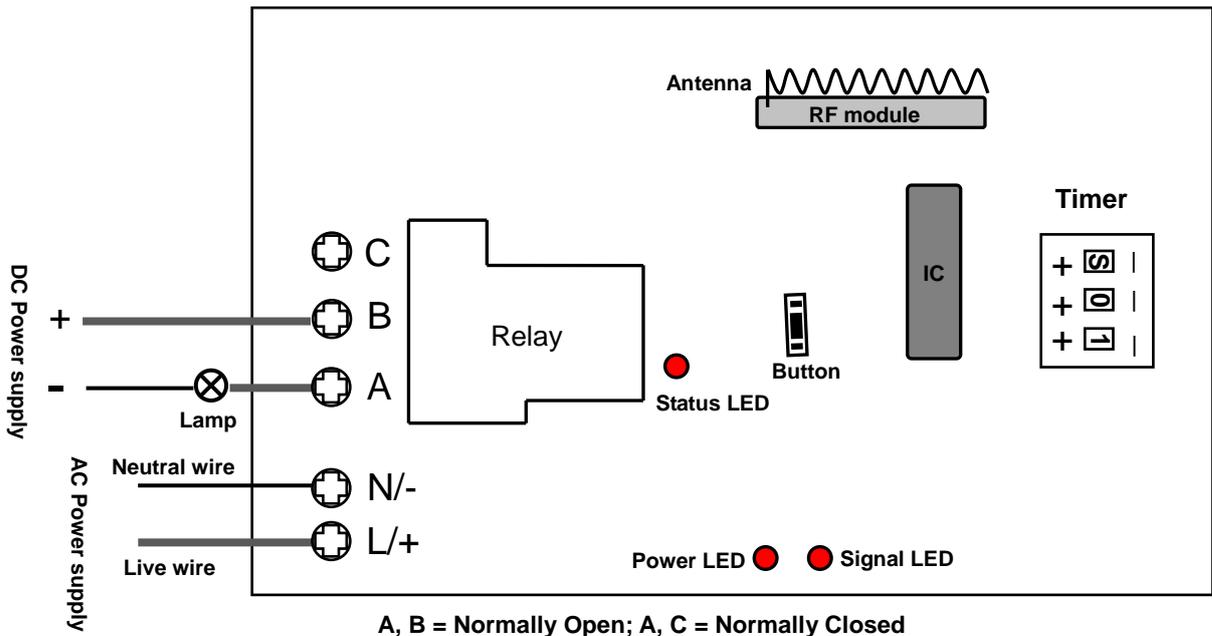
**Delete all transmitters:**

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 slowly; release the button, LED keeps slow flash. That means all stored codes have been deleted successfully.

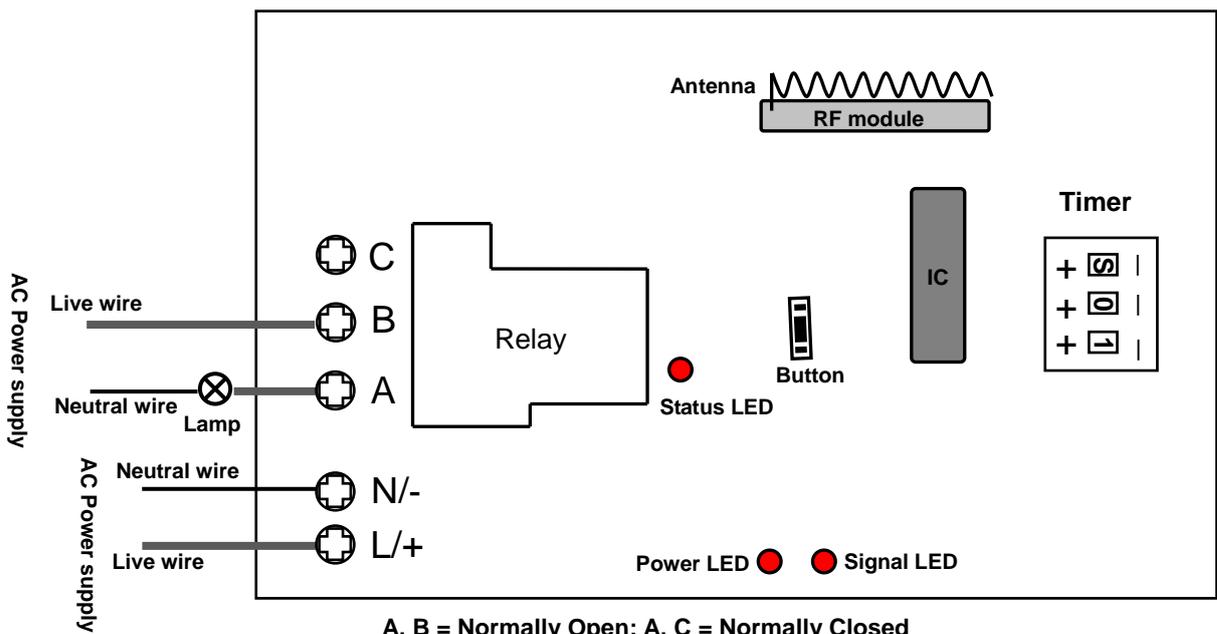


### Control DC Lamp



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

### Control AC Lamp



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