RF Wireless Receiver /Transmitter kits (Model 0020070)

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.
AC Power Output: It can control 380V AC equipment by the contactor.
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.: S1X-AC380
Power Supply (Operating Voltage): AC380V
Output: AC380V
Working Frequency: 315MHz / 433MHz
Channel: 1 CH
Control Modes: Latched
Static Current: ≤6mA
Maximum Working Current: 10A
PCB size: 80mm x 50mm x 18mm
Case size: 105mm x 55mm x 29mm
Use fixed code chip: PT2272-L4
Encoding Type: Fixed code
Work with Fixed code transmitters

Product Description:

Model No.: 0021011 (CP-2)
Shell Color: White
Channel/Button: 2
Button Symbol: big button, small button
Operating Voltage: 12V (1 x 23A -12V battery, can be used for 12 months)
Operating Current: 8mA
Operating Frequency: 315Mhz / 433Mhz
Encoding Chip: PT2262/ PT2264/ SC2262
Encoding Type: Fixed code by soldering, up to 6561 codes
Transmitting Distance: 500m / 1500ft (theoretically)
The distance of 500m 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 exposed to some interference by other signals. Therefore, the actual distance may or may not reach 500m.
If you stretches the telescopic antenna, it can have a further working range, which is twice as much as it used to be.
Modulation Mode: ASK
Operating Temperature: -20 ° C to +70 ° C
Unit Size: 85mm x 36mm x 16mm
Weight: 40g
Uses: garage doors, motorcycles, car alarm products, home security products, wireless remote control products, industrial control products.

Contactor Parameters:

Model No.: 0040008
Three main contact: All Normally Open
One auxiliary contact: Normally Open
Contact: Silver
Max. Current: 25A
Contact Rating: 220V/25A/5.5KW, or 380V/25A/11KW, or 690V/18A/15KW
Control (Coil) Voltage: 380VAC
Dimensions: 57mm x 86mm x 97mm, or 2-1/4" (W) x 3-2/5" (D) x 3-4/5" (H)
Mounting Method: 35mm DIN Rail or Screw On

Matching Transmitters:

The receiver can work with different transmitters, such as model C-2 (100M), CWB-2 (50M, waterproof), CP-2 (500M), CB-2 (1000M) etc.

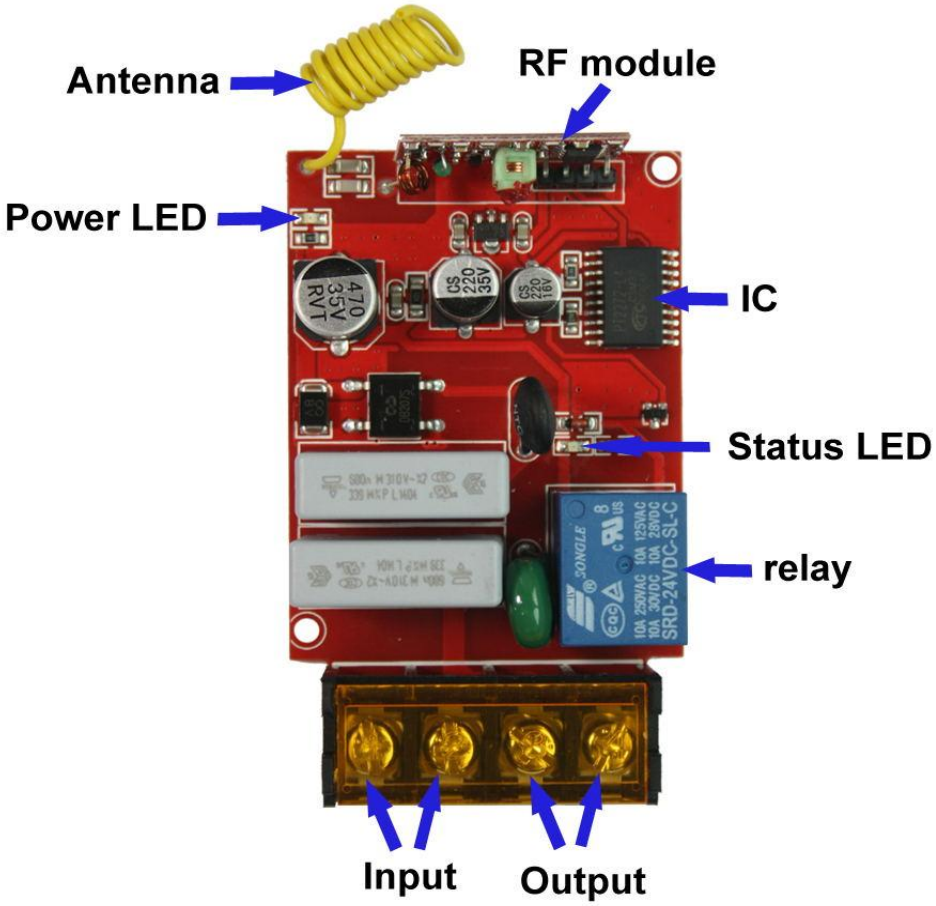
Working Range:

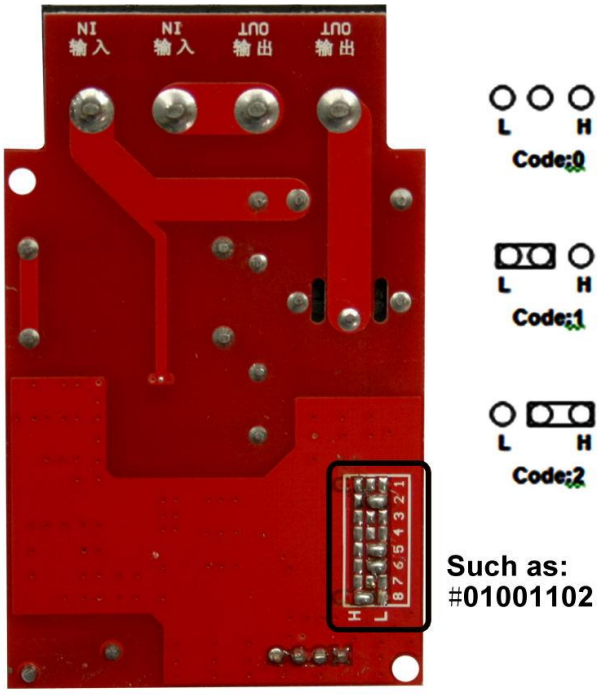
With a transmitter (such as CP-2) to form a complete set, the maximum working distance can reach 500M in an open ground.
The maximum working distance is a theoretical data, it shall be operated in an open ground, no barriers, no any interference. But in the practice, it will be hindered by trees, walls or other constructions, and will be interfered by other wireless signals. Therefore, the actual distance may not reach this maximum working distance.

If you want to have a further working range, you can install an external antenna to the receiver, and you also can use a powerful transmitter, such as CB series transmitters.

Usage (with the transmitter CP-2):
The receiver can be used to control AC 380V pumps, motors and other equipments.
Notice: The receiver can control AC 380V equipment by the contactor, but it can not directly connected to the 380V equipment.

Wiring:
If you want to control an AC 380V equipment, you can connect the receiver, the 380V contactor, the 380V equipment and the 380V power according following circuit diagram, then you use the transmitter to control the AC 380V equipment.
1) Press big button of the transmitter, receiver outputs AC 380V power, the contactor is connected, the 380V equipment works.
2) Press small button of the transmitter, receiver stops to output AC 380V power, the contactor is disconnected, the 380V equipment stops to work.


Antenna
RF module
Power LED
IC
Status LED
relay
Input
Output


IN
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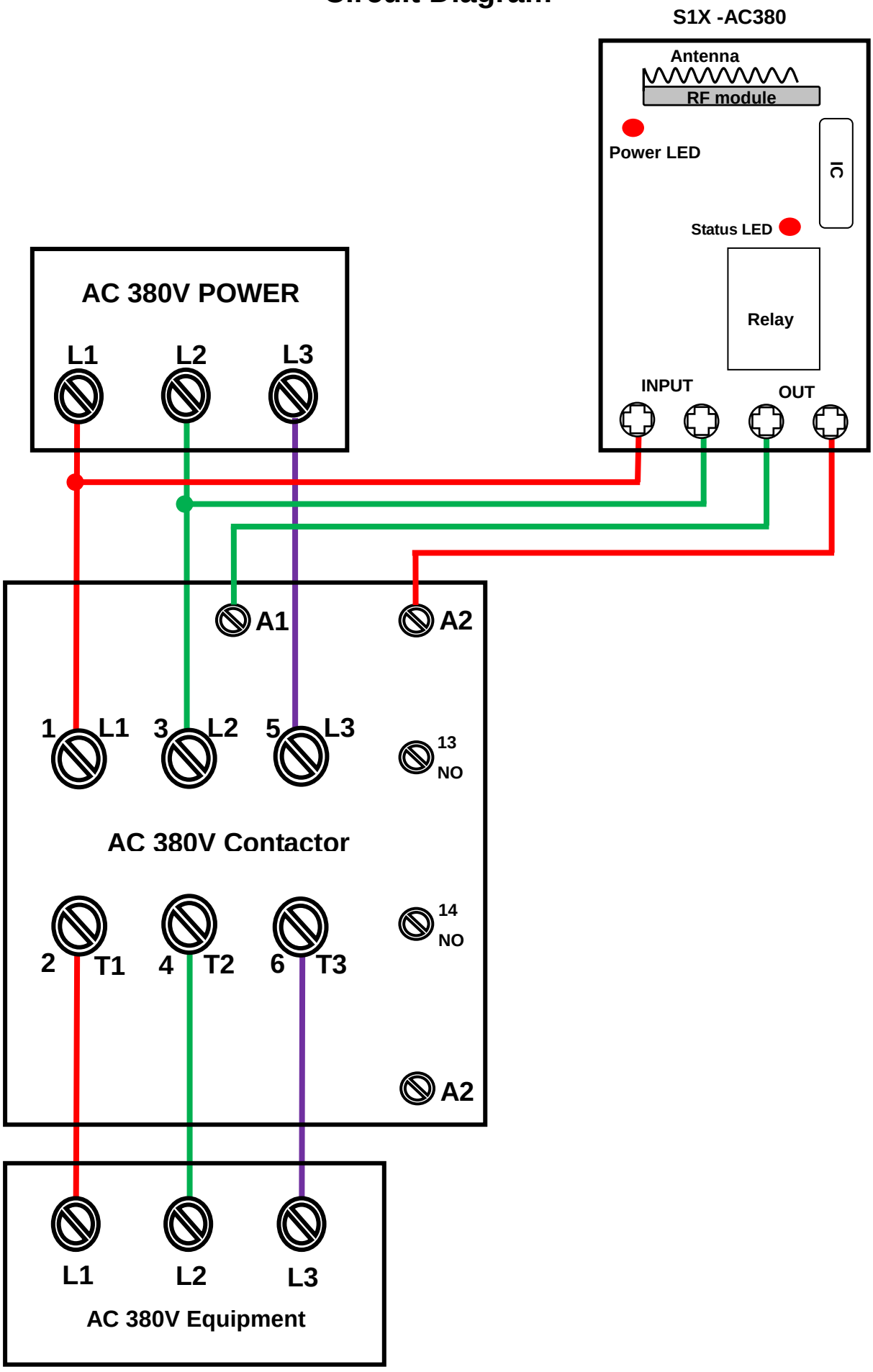
Circuit Diagram



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