Automatically Remotely Control AC 380V Pump By Water Level Sensors In Tank

Package Include:
1 x Receiver: S1UA-AC380
1 x Transmitter: CB-2
1 x Transmitter: CB-2N-2
2 x Water Level Sensors
1 x User manual

Application: When the water pump is away from the tank and you are not convenient to wire the water level sensors from the tank to the pump, you can use this system to automatically turn on / off the water pump motor by two water level sensors in the water tank, and you can also use the transmitter to remote control the pump.
Wireless control, easy to install.
AC 380V working power supply, can control AC 380V water pump.
Built-in AC 380V 32A contactor.
Automatically control the water pump by two water level sensors in the tank.
You can press two manual buttons on the receiver to turn on / off the water pump.
You can use the transmitter to turn on / off the water pump from any place within a reliable distance.
With external antenna, the receiver have a farther working range.
Wireless RF signal can pass through walls, floors, doors or windows.
With over current protection and lack-phase protection to prevent equipment burned down.
Reliable control: The signal has thousands of different combinations, and the receiver only works with the transmitter which use the 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.: S1UA-AC380
Power Supply (Operating Voltage): AC 380V
Output: AC 380V
Working Frequency: 315MHz
Channel: 1 CH
Control Modes: Interlocking
Static Current: ≤6mA
Maximum Working Current: 32A, 380V/7.5KW
Operating Temperature: -20 ° C to +70 ° C
Case size: 200mm x 135mm x 120mm

Transmitter Parameters:
Model No.: 0021024 (CB-2)
Channel/Button: 2
Button Symbol: A, B
Operating Voltage: 9V (1 x 6F22 -9V battery, can be used for 12 months)
Operating Current: 30mA
Operating Frequency: 315Mhz
Encoding Chip: PT2262 / PT2264 / SC2262
Transmitting Distance: 1000m / 3000ft (theoretically)
It has an power switch on the side.
Unit Size: 135mm x 42mm x 25mm

Model No.: 0021046 (CB-2N-2)
With External Trigger Wires.
Triggering method: When wire 1 and wire 3 are connected, it will send wireless signal "ON". When wire 2 and wire 3 are connected, it will send wireless signal "OFF".
Channel/Button: 2
Button Symbol: A, B
Operating Voltage: 9V (1 x 9V Rechargeable Lithium Battery, can be used for two weeks. If you want a longer working time, please use a 9V power adapter.)
Operating Current: 30mA
Operating Frequency: 315MHz
Encoding Chip: PT2262 / PT2264 / SC2262
Transmitting Distance: 1000m / 3000ft (theoretically)
It has an power switch on the side.
Unit Size: 135mm x 42mm x 25mm

Working Range:
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.

Water Level Sensor:
Body Material: PP
Float Material: PP
Temperature:-10~85℃
Max. Voltage: DC 100V
Max. Current: 0.5A
Max. Power: 10W

Working Principle of Transmitter CB-2N-2:
Transmitter CB-2N-2 is a special remote control with normally open contact trigger. It has 3 input wires for connecting two devices with normally open contact, such as warning host, cable detectors, various sensors, limit switches, Programmable Logic Controllers and so on.
This transmitter can be combined with different types of receivers to form a wireless control system, and this system is used to wirelessly control the device A through the device B with normally open contact.

Working Process:
If you want to control the device A through the normally open contacts of the device B, do as following:
1. Connect the device A to the receiver.
2. Connect the normally open contact 1 from the device B to the transmitter's input wires 1 and 3.
3. Connect the normally open contact 2 from the device B to the transmitter's input wires 2 and 3.
4. When the normally open contact 1 is connected, the transmitter's input wires 1 and 3 is also connected, the transmitter automatically emits a wireless signal "ON", which is equivalent to the function of the button "ON" on the transmitter. When the receiver receives this wireless signal, it will activate its relay to turn on the device A.
5. When the normally open contact 2 is connected, the transmitter's input wires 2 and 3 is also connected, the transmitter automatically emits a wireless signal "OFF", which is equivalent to the function of the button "OFF" on the transmitter. When the receiver receives this wireless signal, it will deactivate its relay to turn off the device A.

Usage:
1. Installation:
1) Put the water level sensor 1 downwards and install at the low water level position in the tank; Put the water level sensor 2 upwards and install at the high water level position in the tank.
2) Connect two wires of the water level sensor 1 to wire 1 and wire 3 of transmitter CB-2N-2.
3) Connect two wires of the water level sensor 2 to wire 2 and wire 3 of transmitter CB-2N-2.
4) Connect three lines of the AC 380V power supply to the input terminals "L1", "L2" and "L3" of the receiver.
5) Connect three lines of the AC 380V pump to the output terminals "T1", "T2" and "T3" of the receiver.

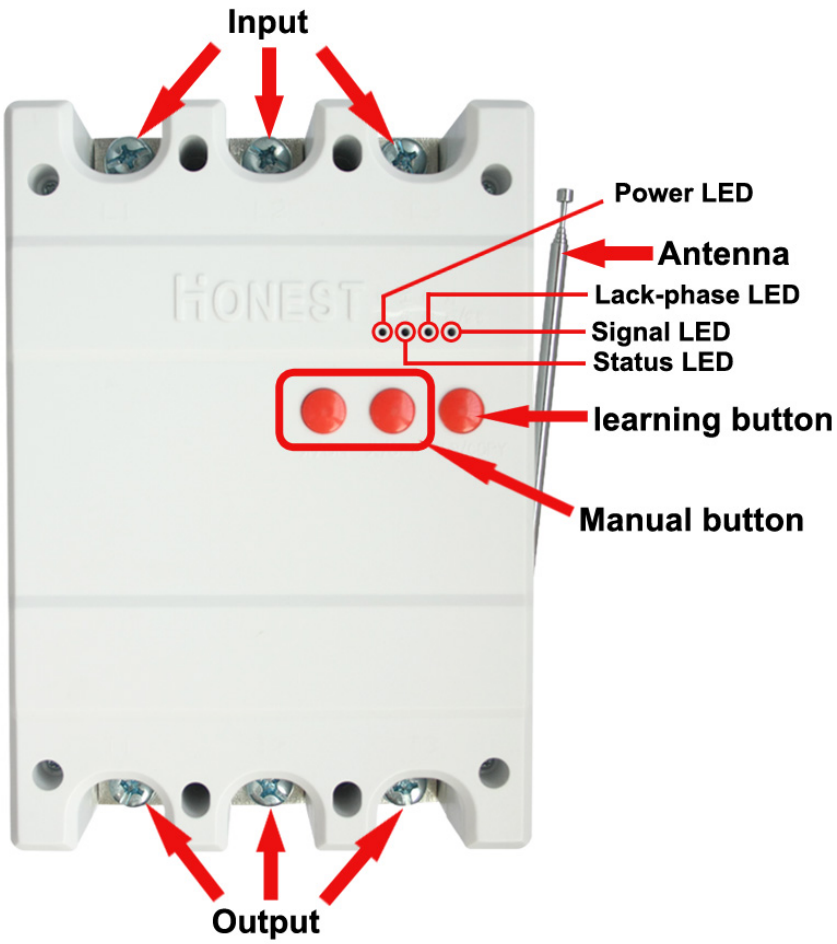
2. Operation:
1) Control pump by transmitter CB-2:
Press button A of the transmitter CB-2, the receiver outputs AC 380V power, and the pump is turned on.
Press button B of the transmitter CB-2, the receiver stops outputting, and the pump is turned off.

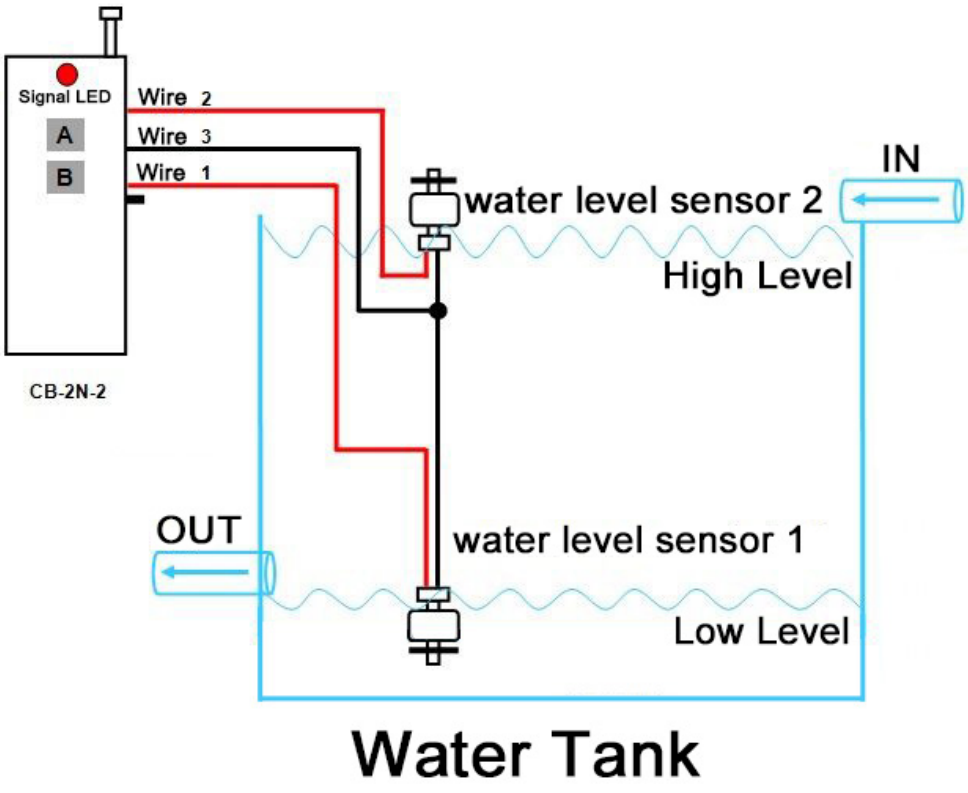
2) Automatically control pump by transmitter CB-2N-2 & Water Level Sensor:
When the water reaches the low water level, two wires of the water level sensor 1 is connected, the transmitter CB-2N-2 automatically emits a wireless signal "ON", which is equivalent to the function of the button "ON" on the transmitter. When the receiver receives this wireless signal, it will turn on the pump motor to pump water into the tank.
When the water reaches the high water level, two wires of the water level sensor 2 is connected, the transmitter CB-2N-2 automatically emits a wireless signal "OFF", which is equivalent to the function of the button "OFF" on the transmitter. When the receiver receives this wireless signal, it will turn off the pump motor to stop pumping water.

3) Control pump by Manual Buttons on receiver:
Press button "ON" on the receiver, the receiver outputs AC 380V power, and the pump is turned on.
Press button "OFF" on the receiver, the receiver stops outputting, and the pump is turned off.

How to pair the transmitter to the receiver:
1) Press the learning button of the receiver for 1~2 seconds; then release the button, signal LED on the receiver is on, it means the receiver enters the learning status.
2) Press any one button on transmitter within 4 seconds, if signal LED flashes 4 times then turns off, it means learning is successful.
3) The receiver can learn several transmitters with different codes.

Delete all transmitters:
We have learned the transmitter to the receiver. If you don’t want the receiver to work with the transmitter, you can delete all codes of transmitters, which are stored in the receiver.
Operation: Press and hold the learning button on the receiver until the signal LED goes from on to flashing to off, then release the button. That means all stored codes have been deleted successfully.


Input
Power LED
Antenna
Lack-phase LED
Signal LED
Status LED
learning button
Manual button
Output


Signal LED
A
B
Wire 2
Wire 3
Wire 1
CB-2N-2
IN
water level sensor 2
High Level
OUT
water level sensor 1
Low Level
Water Tank