Long Range Transmitter Triggered By Two Normally Open Dry Contacts

Package Include:
1 x Transmitter: CB-2N-2
1 x User manual

Working Principle:
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.

Application:
You can use this transmitter and the receiver to remotely control the AC or DC devices by the normally open contact of another device. Such as you can use two water level sensors to turn on / off the water pump wirelessly.

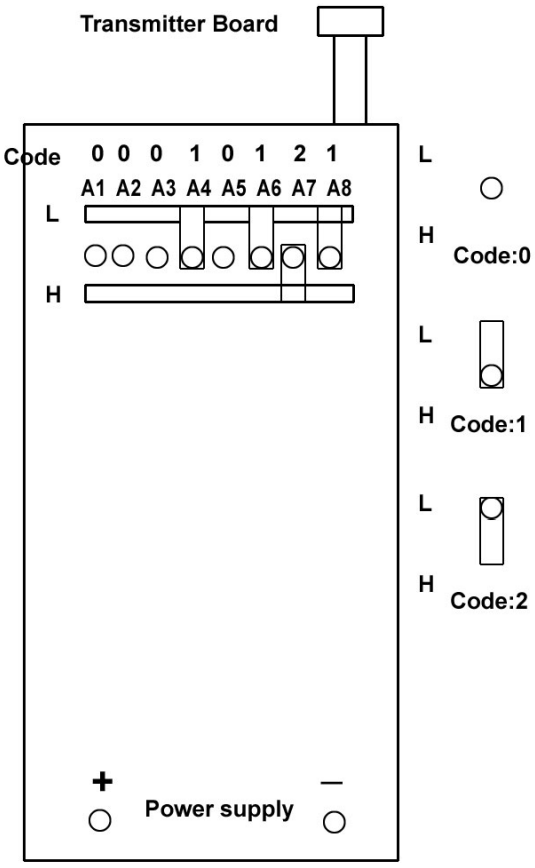
Feature:
Wireless control, easy to install.
Triggered By Two Normally Open Dry Contacts.
Wireless RF signal can pass through walls, floors, doors or windows.
Reliable control: The signal has thousands of different combinations, and the receiver only works with the transmitter which use the same code.
One/several transmitters can control one/several receivers simultaneously.
You can use two or more units in the same place.

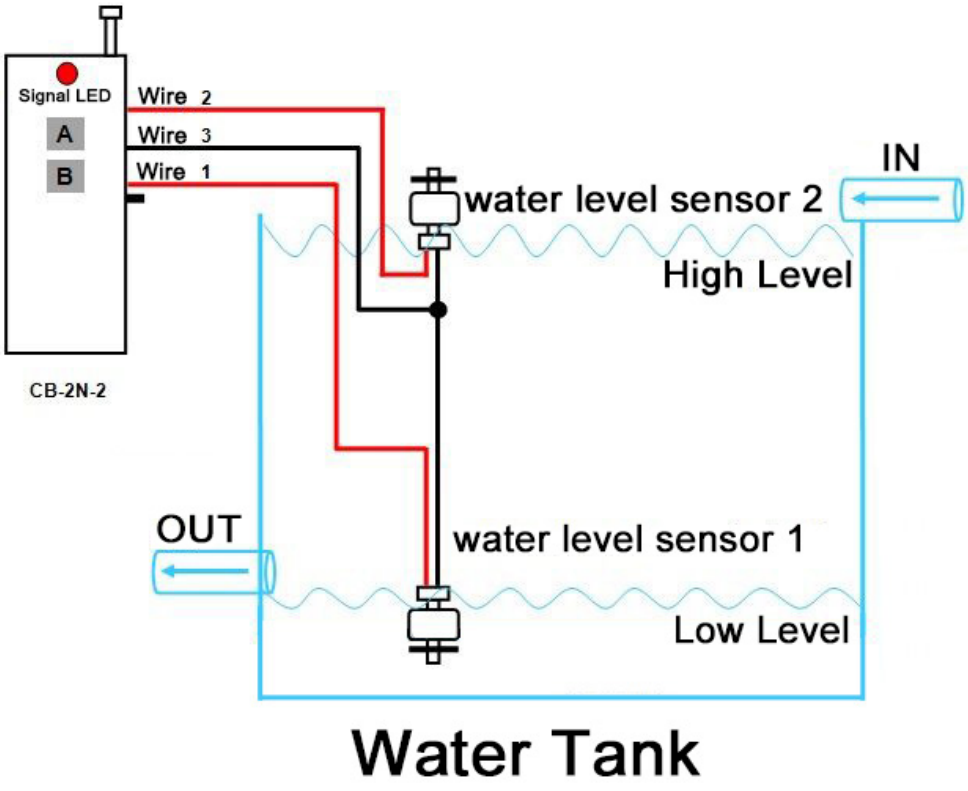
Transmitter Parameters:
Model No.: 0021046 (CB-2N-2)
With External Trigger Wires.
Triggering method: When wire 1 and wire 3 are connected, it will send wireless signal "ON". When wire 2 and wire 3 are connected, it will send wireless signal "OFF".
Channel/Button: 2
Button Symbol: A, B
Operating Voltage: 9V (1 x 6F22-9V battery, can be used for a week; or 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:
With a receiver (such as S1UA-DC-ANT3) to form a complete set, the maximum working distance can reach 1000M 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.

Usage:
If you want to control the device A by two 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 A 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 B on the transmitter. When the receiver receives this wireless signal, it will deactivate its relay to turn off the device A.
6. You also can press two buttons on the transmitter to turn on / off the device A.

How to solder the 8-bits code of the transmitter:
1. Open the transmitter shell, then you can see the circuit board. There are two rows pads and one row of chip feet on the back side.
2. The upper row of pads is "L" side, and the lower row of pads is "H" side.
3. If solder the middle row of chip feet to the "L" side, it is code 1. If solder the middle row of chip feet to the "H" side, it is code 2. Don't solder to any side, it is code 0.
4. The 8-bits code order is from left to right (from A1 to A8).
5. Here is an example, the 8-bits code in the picture is 00010121, solder as the following way:
   Code 0: don't solder any side, like A1, A2, A3, A5.
   Code 1: solder to the "L" side, like A4, A6, A8.
   Code 2: solder to the "H" side, like A7.


Transmitter Board
Code 0 0 0 1 0 1 2 1
A1 A2 A3 A4 A5 A6 A7 A8
L
H
L
H
Code:0
L
H
Code:1
L
H
Code:2
+
Power supply
–


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