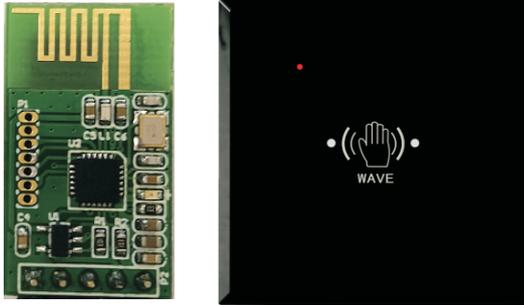


Operation Instructions

M-505MHWS Wireless Open Mounted Infrared Touchless Switch

Make your choice.....



Receiver wiring definition and instruction:

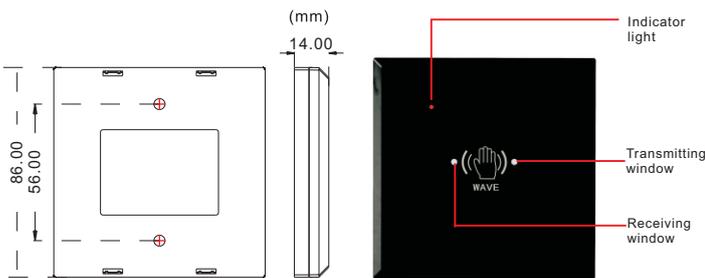
VCC : connect the positive pole of power supply, the power supply is 3.3V;
 GND : contact the negative pole of power supply;
 OPEN : opening signal, the pin is high level when idle,when the receiver receives open signal, the pin will output a low level signal of 50ms;
 LOW_POWER : transmitter battery low power indicator pin, when the transmitter battery voltage is higher than 2.8V, this pin will outputs a high level. When the transmitter battery voltage is lower than 2.8V, this pin will outputs a low level.
 LEARN : enter learning mode or delete all transmitter IDs control pin, when the pin inputs a low level signal less than 3s, the receiver enter the learning mode; When a low level signal greater than 3s is input, the receiver deletes all transmitter IDs.

1 Safety instruction

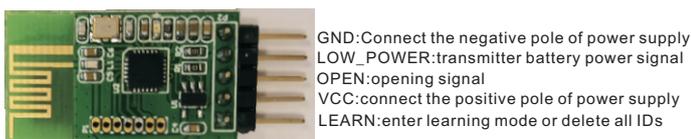
Thank you very much for your purchasing, in order to use this product correctly, please be careful read this operating manual before using it.

2 Overview

Transmitter:



Receiver:

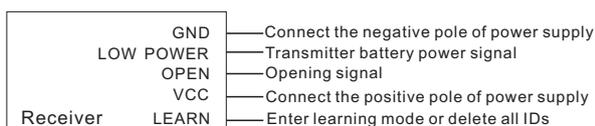


3 Overall characteristic

- The transmitter with standard 86 switch panel, strong commonality and flexible installation.
- The panel adopts laser engraving technology, with backlight display, novel and fashion style.
- The receiver is small in size, and is installed in a straight-line way for flexible replacement.
- The transmitter and receiver adopt low-power consumption technology, which saves electricity and extends battery life.
- The transmitter and receiver adopt ID pairing to achieve many-to-one control, which is convenient for uses to quickly add transmitters.
- Both the transmitter and receiver have indicator lights to facilitate uses to understand the working status of the system.
- Using 2.4G wireless communication technology, which is convenient for equipment maintenance and saves the cost of the upgrading wiring.

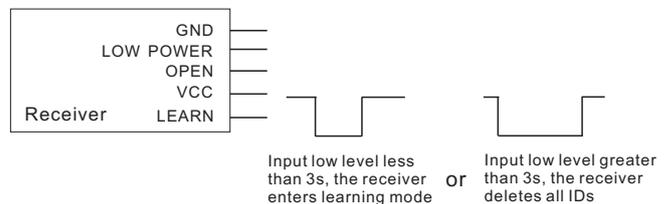
4 Receiver wiring definition and instruction

Receiver diagram:



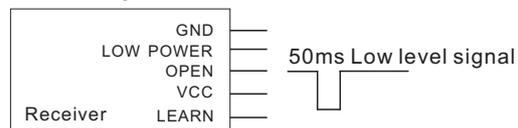
5 Instructions

- Receiver and transmitter are paired (1 receiver can be paired with up to 20 transmitters) and delete ID
 Step 1: Control the input level signal of LEARN pin to enter learning mode or delete all IDs



- Step 2: In learning mode, wave your hand to make the transmitter panel sense it, and will emit a pairing signal;
 Step 3: Check the receiver's indicator light, the indicator light flashes to indicates that the pairing is successful.

- After the receiver and transmitter are paired successfully, the transmitter will be sensed, and receiver OPEN pin will output a 50ms low level signal.



- Description of the transmitter's indicator light

- 1) When the battery power is normal and the system is idle, the blue indicator light flashes once at an interval of about 1.5s;
- 2) In the sensing state, the blue indicator light is always on;
- 3) When the battery power is low (lower than 2.8V, but greater than 2.7V) and the system is idle state, the red indicator light flashes once every 1.5s;
- 4) When the battery power is low (lower than 2.7V) and the system is idle state, the red indicator light flashes once every 700ms.

- Description of the receiver's indicator light

- 1) When the signal is received, the indicator light will be on (the lighting time is depends on the sensing time of the transmitter);
- 2) Enter the learning mode, the indicator light is on for about 5s.
- 3) Successfully paired with the transmitter, the indicator light flashes 3 times at an interval of about 300ms;
- 4) The transmitter ID is deleted, the indicator light flashes at 120ms interval until LEARN becomes high level.

6 Parameters

Receiver parameter	
Power supply:	DC3.3V
Action current:	27mA
Static current:	260uA
Dimension:	27.5mm (L) × 15.5mm (W) × 0.1mm (H)
Transmitter parameter	
Power supply:	DC3V
Standby current:	100uA
Emission current:	41mA
Induction distance:	3-30cm
Launch distance:	Open area more than 30 m, or a metal shielding/wall environment 10 m
Dimension:	86mm×86mm