Operation Instruction

M-512D   Wireless Infrared Touchless Induction Switch

1 Safety Instruction

⚠ Thanks for purchasing this product. In order to use this product correctly,please read this manual carefully before use.

⚠ Avoid sunshine directly to the sensing window when installation, otherwise it will cause the sensing distance get shorter

2 Overall Product Characteristics

■ Adopts infrared modulation and demodulation, which is not easy to be misjudged by interference.
■ Non - contact induction with hands or reflective objects, clean and hygienic.
■ The induction distance is adjustable from 3-30cm. It can be adjusted for different occasions.
■ High sensitivity infrared , quick response.
■ Wireless transmission adopts 2.4g wireless communication technology, with good frequency consistency and high wireless transceiver stability.
■ Low power consumption sensor panel design, long battery life.
■ Receiver large capacity output, can be used with automatic door, and access control.
■ After receiving the signal, the door opening signal is output for 1.5 seconds. It is equipped with LED indicator.
■ Receiver wide voltage input design, 12 ~ 30V DC power input.
■ With independent signal output of A.B two sets of relays

3 Overview of Product
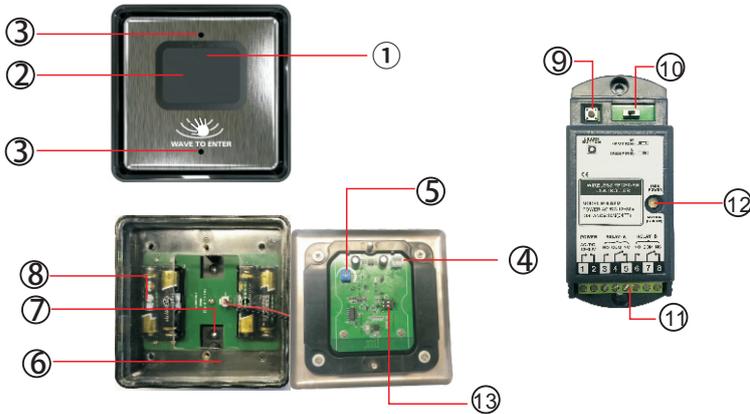
① LED indicator (standby red light flashes for 1.5 seconds action blue light flashes)
② Inductive window
③ Panel dismantling screw holes
④ Panel connection socket
⑤ Induction distance adjustment knob
⑥ Top cover fixing screw column
⑦ Bottom cover fixing holes
⑧ Battery case
⑨ Learning button
⑩ Mode selector switch
⑪ Input and output terminals
⑫ LED indicator (standby red light, action blue light)
⑬ Relay A.B channel selection switch

■ Adopts the self-learning code type. When using the wireless function, need to learn the transmitter into the receiver before use it. Up to 20 transmitters can be learned.
■ Learning method: press the learning key on the receiver for 1 second then release, the indicator light on and from red to green, that is enter the learning state.Meanwhile press the transmitter, the red lights and green lights flashing alternately, means learning successed.
■ Deleting method: Press the learn button on the receiver for 5S, the red and green lights flashes quickly and alternately, that is, delete all codes successfully.

4 Induction distance adjustment
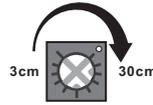
The clockwise direction the induction distance becomes farther, the counterclockwise direction the induction distance becomes closer, and the maximum induction distance is 30cm.

5 I/O wiring definition
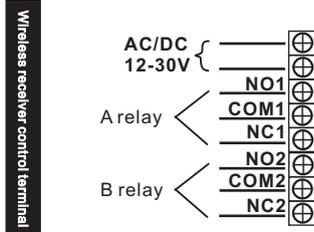
The relay output of the receiver is based on the DIP switch on the transmitter to choose which relay output is.

 A relay output

 B relay output

 A and B relay output at the same time

6 Output state selection

L ▢ M ▢	Pull the state selector switch to the M position, it is Jog output. Relay A will output about 1.5s door opening signal when it induct, and every time relay B induct, it will also output about 1.5s door opening signal.
L ▢ M ■	Pull the state selector switch to L position,it is hold output. When A inducts, the signal output of relay A reverses once, and when inductor B inducts, the signal output of relay B reverses once.

8 Parameters

Receiver

Power supply	DC12～30V
Static current	22mA (DC12V power supply)
Action current	68mA (DC12V power supply)
output signal	Two independent relay outputs
contact capacity	3A 30VDC

transmitter

Power supply	6V (4 pcs AA batteries)
Static current	≦80uA
Battery life	500times/day ,can use 450days .
Emission current	10mA
Infrared modulation frequency	38KHz
Infrared scanning interval	100ms
Response time	≦130ms
Launch distance	More than 30meters in the open area
Working temperature	-42℃～45℃
Working humidity	10～90%RH
Size	129mm（L）×129mm（W）×46mm（H）　(panel) 123mm（L）×50mm（W）×32mm（H）（Receiver)