USA FCC Part 15 Indoors International level

# Operation instruction

## M-512 Wireless Non-touch infrared switch

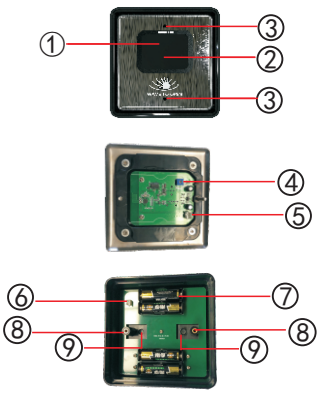
## 1 Safety Instruction

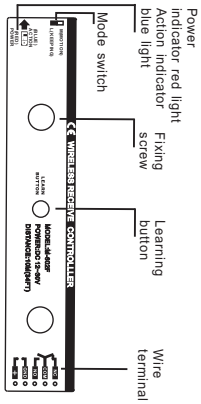
Thanks for purchasing this product. In order to use this product correctly,please read this manual carefully before use.

## 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 receiving buzzer and LED indicator.
- Receiver wide voltage input design, 12 ~ 30V DC power input.

## 3 Overview of Product

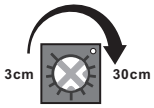



① LED indicator (standby red light flashes for 1.5 seconds
② Inductive window
③ Screw holes
④ Adjustment screw for the sensing distance
⑤ Power supply board connection socket
⑥ Panel connection socket
⑦ Battery box
⑧ Panel fixing screw column
⑨ Control box fixing screw hole

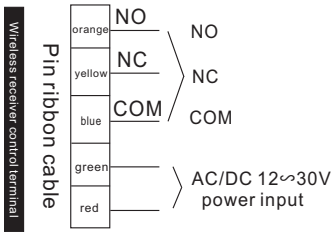
- Adopts the self-learning code type. When using the wireless function, the transmitter must be matched with the receiver.
- Learning method: press the learning key on the receiver for 1 second to release the indicator light from green to red and enter the learning state then sense or touch the transmitter, the red and green lights flicker alternately, means success in learning.
- Deletion method: Press and hold the learning button for 5 seconds, the blue light flashes quickly, you can delete all the codes.

## 4 Induction distance adjustment

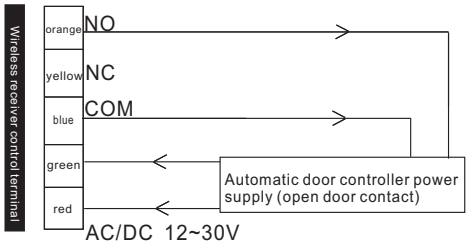



The clockwise direction the induction distance becomes farther, the counterclockwise direction the induction distance becomes closer, and the maximum induction distance is 30cm.

## 5 I/O wiring definition




## 6 The wiring diagram




Receiver and automatic door controller wiring diagram

## 7 Output state selection

| | |
|---|---|
| L M | If the state selection switch is pulled to the M position, it is a motion output. Each time the transmitter senses, it will output a door opening signal of about 1.5seconds. |
| M L | If the status selection switch is pulled to the L position, it is a hold type output, and the output signal is kept. Each time the transmitter senses or touches, the output state will change once. |

## 8 Parameters

| Receiver | |
|---|---|
| Power supply | AC/DC12∽30V |
| Static current | 30mA |
| Action current | 74mA (DC12V power supply) |
| Main contact capacity (wireless receiver) | 3A 30VDC |
| **Wireless switch** | |
| 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) |

**§ 15.19 Labelling requirements.**
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**§ 15.21 Information to user.**
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**§ 15.105 Information to the user.**
**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and receiver.
-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.