

operation instruction

M-520 Embedded Wireless Capacitance Induction Switch



1 safety Instruction

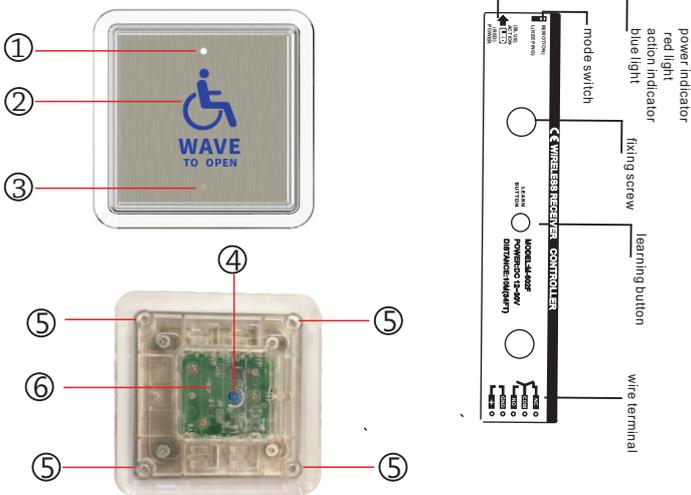
Thanks for purchasing this product. in order to use this product correctly. please read this manual carefully before use it

Note: When the power is just turned on, the red light of the sensor flashes. At this time, the sensor is learning the current environmental parameters, please do not touch the sensor. Wait for the learning to be completed and The red light flashes after learning is completed

2 overall product Characteristic

- Stainless steel metal large panel design.
- The imported capacitive sensor chip is used, and the surface metal panel is used as the sensor antenna. The button function is realized by detecting the charge change brought by the human palm and judging the human hand sensing action
- Replace the traditional mechanical contact switch, non-contact sensing on the front of the hand, clean and hygienic.
- Advanced software algorithm, strong anti-interference ability.
- The sensing distance is adjustable from 0~8CM, and can be adjusted for different occasions.
- Wireless transmission adopts 2.4GHz wireless communication technology, unique frequency hopping technology, and high wireless transceiver stability.
- Low power consumption sensor panel design, long battery life.
- The receiver has a large capacity output, which can be used in conjunction with automatic doors and access controllers.
- After the signal is received, it outputs a 1.5-second door opening signal, and is equipped with receiving LED lights.
- Receiver wide voltage input design, 12~30V DC power input.

3 Overview of product



- LED indication (red light flashes in the power-on learning state, the red light is off when the learning is completed, and the action blue light is on)
- Sensing surface
- Panel disassembly screw hole
- Induction distance adjustment knob
- Mounting hole
- Battery box

- The wireless function of this product adopts self-learning code, and the transmitter must be matched with the receiver when using the wireless function. It can learn up to 20 transmitters
- Learning method: press the learning key on the receiver for 1 second to release the blue indicator light on and enter the learning state then activation the transmitter, the blue lights flicker twice, means learning succeeded
- Deleting method: Press the learn button on the receiver for 5S, the blue light flashes quickly, that is, delete all codes successfully

4 Installation mode



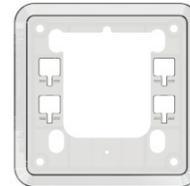
Step 1: Loosen the hex screw



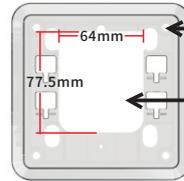
Step 2: Slide the metal panel up



Step 3: Take out the metal panel



Step 4: Fix the four screw holes in corner



Step 5: Open a rectangular hole 64 * 77.5 * 20mm

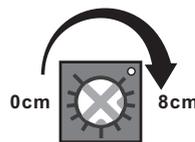


Step 6: Install the panel and slide down



Step 7: Tighten the hex screws

5 Induction distance adjustment

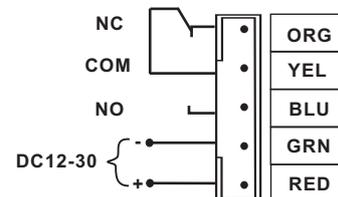


The clockwise direction the induction distance becomes farther, the counterclockwise direction the induction distance becomes closer, and the maximum induction distance is 8cm

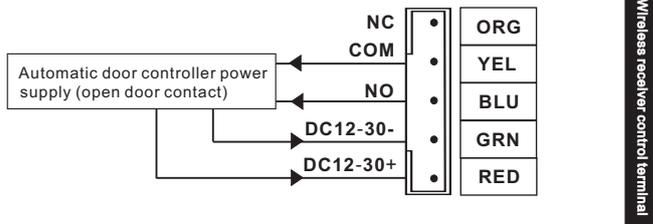
Note: The adjustment knob is in the battery box on the back, you can see an adjustment hole when you remove the second battery

6 I/O wiring definition

Wireless receiver control terminal



7 The wiring diagram



Receiver and automatic door controller wiring diagram

8 Output state selection

- L** If the state selection switch is pulled to the M position, it is a motion output.
M Each time the transmitter senses, it will output a door opening signal of about 1.5seconds.
- 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
M

9 Parameters

Receiver

Power supply:	DC12~30V
Static current	34mA
Action current	62mA(DC12Vpower supply)
Main contact capacity	1A 24VDC

Wireless switch

Power supply	6V (4 pcs 1.5V AA batteries)
Static current	≤30uA
Battery life	500times/day ,can use 520days
Emission current	12mA
Launch distance	More than 30meters in the open area,Partition wall or metal shielding environment only 10 meters
Working temperature	-42°C~45°C
Working humidity	10~90%RH
Size	136mm (L) ×136mm (W) ×34mm (H) (panel) 110mm (L) ×30mm (W) ×15mm (H) (Receiver)