Operation Instructions

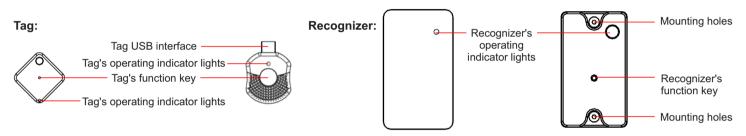## M-504 Electronic RFID identify Recognizer tag set

M-504   M-504(0)   M-504   M-504C(0)

---

1 Safety Instructions

⚠ Thanks for your purchasing, please refer to the following manual carefully before using.

---

2 Product Overall

Tag:

Tag USB interface
Tag's operating indicator lights
Tag's function key
Tag's operating indicator lights

Recognizer:

Recognizer's operating indicator lights
Mounting holes
Recognizer's function key
Mounting holes

---

3 Product Dimension

111 mm
65 mm
16.5 mm
88 mm
46 mm
46 mm
11 mm
58 mm
38 mm
12 mm

---

4 Installation Instruction

Receiver: 1. Pry and open the housing by a screwdriver along the notch on the bottom of the receiver.
2. Drill two mounting fixing holes and one cable hole according to the size drawing, in the appropriate position on the door head where the receiver needs to be installed.
3. Fix the receiver with the provided screws bag.
4. Thread the cable through the hole with the attached cable carefully.
5. After debugging, buckle the cover tightly.

Tag: M-504(0): Remove the screws, pry and open the housing by a screwdriver along the notch on the side, and fasten the screws after installing the battery.
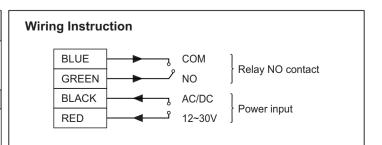M-504C(0): Plug it into the USB port of the forklift or robot.

⚠ **NOTE: Please don't install the receiver on the metal surface, or place it behind the metal baffle, it will affect the sensing range.**

---

5 Led Indicators And Wiring Instruction

	Red indicator always on	Red indicator flashes	Blue indicator always on
Recognizer	Standby state	Receive a matchable tag signal	Receive a matched tag signal and output opening signal
Tag	**Red indicator flashes**		
	Receive the receiver's sensing signal and output opening signal		

Wiring Instruction

BLUE	COM
GREEN	NO
BLACK	AC/DC
RED	12~30V

Relay NO contact

Power input

6 Function Instructions
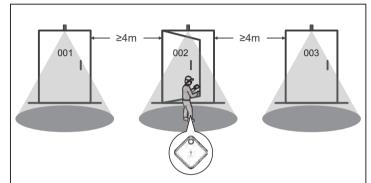
1, Learning method

Press the recognizer's function setting key, the red indicator light turns to blue LED indicator, within 5 seconds, press the tag's setting key, blue indicator light of recognizer flashes 3 times, learning is successful, up to 200pcs tags can be matched.

2, Delete method

Press and hold the recognizer's setting key, until blue indicator light of recognizer flashes slowly, then release it, blue indicator lights is always on, wait for the blue lights turns to red lights, all tags will be deleted. (Note: press for 5 seconds, blue light flashes slowly, press for 10 seconds, blue light flashes quickly)
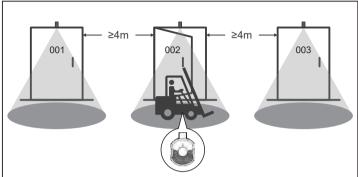
3, Sensing distance setting

Sensing distance with 3 levels: the 1st level is 1 meter, the 2nd level is 3 meters, the 3rd level is 5 meters. Press and hold the recognizer's setting key, the tag's indicator light flashes once, twice, three times, once.....form a cycle. When the tag's indicator light flashes once, and release the setting key, that is in the 1st level. Flash twice means in the 2nd level; flash three times means in the 3rd level.

Scene one: carry it portably and no need to plug in

When the person carrying the tag enters the sensing range of the Door 002, the Door 002 will be opened automatically. The people stay in the sensing range, Door 002 will always stay opening until people leave the sensing range.

Scene two: Plug in and connect by USB port

When the car carrying the tag enters the sensing range of the Door 002, the Door 002 will be opened automatically. The car stay in the sensing range, Door 002 will always stay opening until car leave the sensing range.

⚠ **When the distance between the two adjacent doors is less than 4 meters, the tag sensing invalid and the door does not open, please try to reduce sensing distance of the tag.**

7 Technical parameters

Recognizer	Tag
Access authorization: Learning code	Power supply(504(0)): 3V (CR2032 cell buttons)
The min distance between door and door: 4 meters	Power supply(504C(0)): 5V
The max quantity of the tag: 300pcs	Standby current: 10µA
Output signal: COM, NO, Dry contact	Transmitting current: 2mA
Output delay time: 2.5 seconds	Launch range: Three levels adjustable (1,3,5 meters)
Power supply: AC/DC 12~30V	Dimension(504(0)): 46mm(L)x46mm(W)x11mm(H)
Current: Action 143mA, standby 125mA	Dimension(504C(0)): 58mm(L)x38mm(W)x12mm(H)
Dimension: 111mm(L)x65mm(W)x16.5(H)mm	

8 Packing List

NO.	Name	Quantity	Remark
1	Receiver	1	
2	4-PIN cable	1	165mm
3	Screws bag	1	
4	Manual	1	
5	Tag	Optional	