

Operation Instruction

M-518 Automatic Door Vehicle Smart RFID Tag



1 Safety instruction

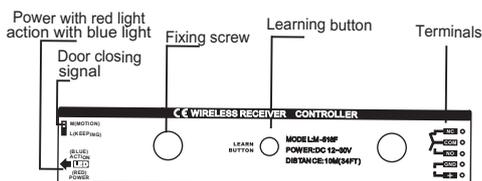
! Thank you very much for purchasing this product, in order to use it correctly, please read this manual carefully before use.

2 Overall characteristics

- Advanced software algorithm, strong anti-interference ability.
- The response distance is adjustable in six gears, making it more flexible to use.
- Receiver with wide voltage input design, 12~30V DC power input.
- Wireless transmission adopts 2.4GHz wireless communication technology, unique frequency hopping technology, and high wireless transceiver stability.

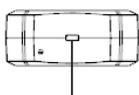
3 Product overview

Receiver:



Vehicle tag:

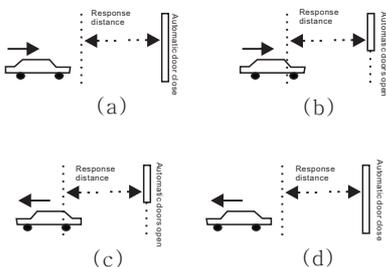
USB interface



Learning button / Distance adjusting switch

4 Product instructions

After the vehicle tag and receiver learn to pair, the receiver is installed on the automatic door operator controller,:



- (1) The car drives to the automatic door
 - a. The car has not reached the response distance range, the automatic door will not open;
 - b. The car has entered within the response distance, the automatic door opens automatically.
- (2) The car leaves the automatic door
 - c. The car is not out of the response distance range, the automatic door is still open;
 - d. The car is out of the response distance, the automatic door closes automatically.

NOTE: (1) The response distance can be set as 1,2,3,4,5,6 gears on the vehicle tag. See below for specific operations. And the actual response distance varies with different environments;
 (2) The response distance of the car driving toward the automatic door is not the same as the response distance of the car driving away from the automatic door. The response distance of the car driving toward the door is more shorter.

5 Product Function Operation Instruction

1. The receiver learns the vehicle tag ID (The vehicle tag and receiver pairing)

Please press the learning button of the receiver once, the blue indicator light of the receiver will light up; when the tag is power on, shortly press the vehicle tag button, and the blue indicator light of the receiver flashes, that is the receiver is successful paired with the vehicle tag. One receiver can learn up to 300pcs tag with different IDs, or can be paired with countless vehicle tag with the same ID (need to special customized)
2. Adjust the response distance between the vehicle tag and the receiver

The response distance of the vehicle tag and the receiver can be divided into six levels: Level 1: 1m, Level 2: 2m, Level 3: 3m, Level 4: 5m, Level 5: 8m, Level 6: 10m. (The actual response distance will be affected by the use and installation environment.)

 - 1) Enter the vehicle tag response distance adjustment mode

Please press the vehicle tag button for about 3s, the indicator light will light up, then release and enter the response distance adjustment mode, the different color indicator light will light on or flash, means under the corresponding gear.
 - 2) Adjust the response distance

In the response distance adjustment mode, shortly press the button to adjust and turn the response distance to 1 gear: red light on, 2 gear: green light on, 3 gear: blue light on, 4 gear: red light flashes, 5 gear: green light flashes, 6 gear: blue light flashes.
 - 3) Exit the vehicle tag response distance adjustment mode
 - a. Without any operation, wait for 5s to automatically exit this mode.
 - b. Please press the vehicle tag button for about 3s, after the indicator light goes out, loose the button and then will exit this mode.
3. Receiver output

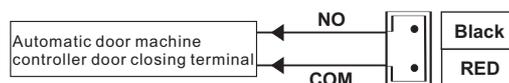
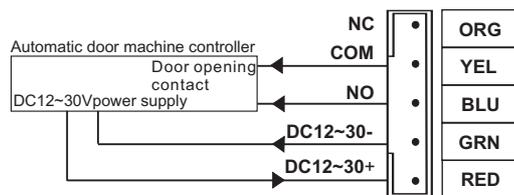
The receiver receive the signal from vehicle tag, and then output door opening signal, until the vehicle tag is lost, it will delay 1s then output 1s door closing signal.
4. Receiver LED indicator instructions

The red indicator will always on when standby mode, the blue indicator will always on when received the vehicle tag's signal, the blue indicator will flashes when learned the tag ID.
5. Open the door manually

When approaching the receiver but the receiver has not responded to the transmitting tag, shortly press the vehicle tag button, then the door can be opened immediately.
6. Delete the matching vehicle tag ID in the receiver (remove pairs between vehicle tag and receiver)

Press and hold the learning button of the receiver for about 5 seconds, and the blue indicator light of the receiver flashes quickly, then delete all vehicle tag IDs. Please note the ID can not be deleted individually.

6 Receiver terminal definition and wiring diagram



The receiver receive the signal from paired vehicle tag, and then output door opening signal; until the vehicle tag is lost, it will delay 1s then output 1s door closing signal.

8 Technical parameters

Receiver :	
Power supply	DC/AC 12 ~ 30V
Static current	19mA(DC12VPower)
Dynamic current	52mA(DC12VPower)
Dimension	110mm(L)x30mm(W)x15mm(H)
Vehicle tags :	
Power supply	5V (USB interface)
Operating current	13mA
Launch distance	Six gears adjustable
External dimension	45mm(L)x23mm(W)x9.6mm(H)