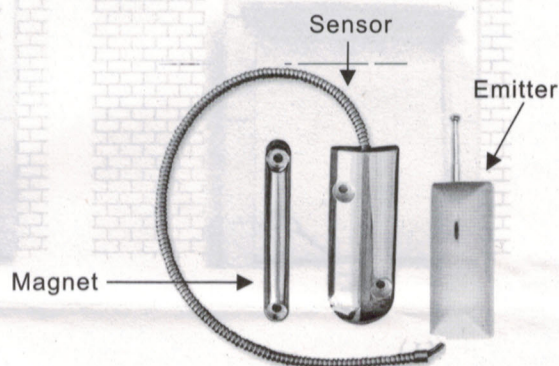


MD-212R WIRELESS ROLLING SHUTTER MAGNETIC SWITCH MANUAL

1. Brief introduction

MD-212R is a Mini wireless rolling shutter magnetic switch detector. It is our latest product which can work together with wireless control panel series. With novelty and streamline design, it fits well the surroundings and can be decorative at residence. It features strong emitting signal and high sensitivity within 120m away from control panel. Before use it, should code to control panel. Please input the only address code to control panel. This detector is the separating trigger model. When the distance between the emitter and magnet is about 4cm, the emitter will send out the alarm signal to control panel in order To prevent the intruder entering into the room from the door or window.



2. Specification

Model: MD-212R

Wireless emitting distance: outlay antenna 150m

Code: 28 bit ID, 8bit function code, 36 bit digital code.

Emitting frequency: 433MHz/868MHz

Operating voltage: 3V (1pc Cr123 Lithium battery, battery life is 1 year)

Current: static $\leq 5\mu\text{A}$, alarm:7-12mA (433MHz)
static $\leq 5\mu\text{A}$, alarm:35-45mA (868MHz)

Alarm output: wireless signal

Tamper report Self-check report: send status report to control panel at the first 30seconds , 2minute and sixth minute after first power up or reset. Then report every 2 hours.

Environment: $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$ ($14^{\circ}\text{F} \sim 122^{\circ}\text{F}$)

Dimensions: emitter $80 \times 32 \times 25\text{mm}$; magnet: $74 \times 12 \times 20\text{mm}$

Color: white

3. Function introduction and installation

3.1 MD series Function introduction

- A. Special low power consumption CPU;
- C. Auto report the operating status;
- E. Periodic report when rolling shutter is not well closed.

B. Patented Mutil code.

D. Lost alarm;

3.2 Installation notes

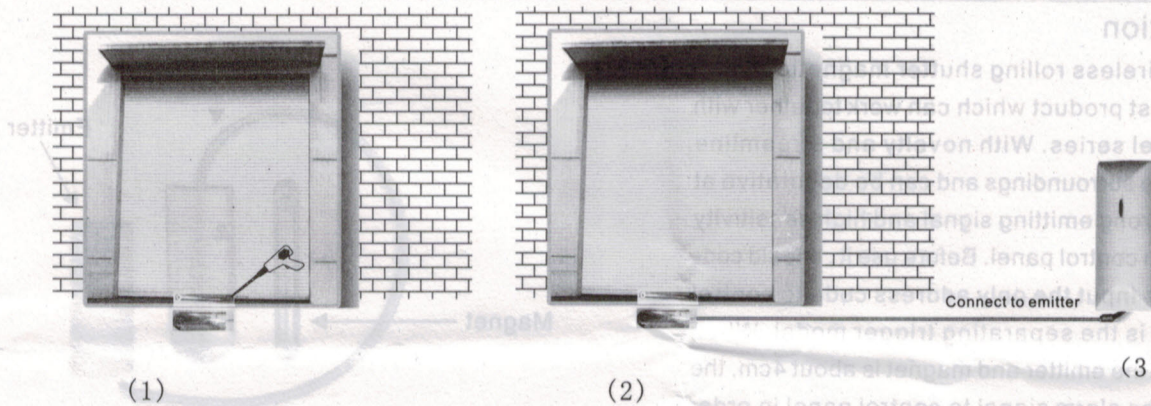
It uses 3V lithium battery and battery was not installed when left factory. Please refer to 4.1 to install battery before use.

- ① Fix the magnet at the bottom of rolling shutter and fix the sensor of detector on the ground.

Notes: When the rolling shutter are closed, the sensor and magnet should be in parallel position with distance less than 4 cm.

- ② Connect the wires separately of the sensor and emitter(two wires each), no negative and positive difference of the wire, wrap the joint part with insulant .
- ③ Slightly press the front cover to remove it.
- ④ Install the battery to the battery case, please pay attention to the negative and positive.
- ⑤ Install the emitter of detector on the proper position.
- ⑥ Coding to control panel
 - A. Activate the Auto coding Mode
 - B. MD-212R enter into Operating Mode and the sensor is parallel to magnet within 4cm, move the magnet to trigger the magnetic switch emitting wireless signal after press the confirm key, then the control panel will automatically learn the code.
 - C. User can manually input other address codes. Activate Manual Coding Mode and input the 9 bit address code on the emitter label.
- ⑦ Testing: Separate the magnet and emitter in parallel , generate a signal then the LED on emitter will flash five times and the control panel should alarm.

3.3 Illustrated installation



① Mark screw hole at the bottom of rolling shutter, then fix the magnet on the rolling shutter with screws.

② Drill hole on the ground parallel to magnet, then fix the sensor on the ground.

③ connect the two wires of sensor to wired terminal of emitter. Freely connect between connected wire and terminals.

4. Maintenance

4.1 Battery change

Battery life is around 1 years, should change the battery when the signal between the detector and control panel becomes weak.

- ① Remove the battery cover per arrow direction on the cover.
- ② Slide out the old battery and install new ones.
- ③ Test battery : Move the magnet away from emitter about 2cm, control panel should alarm at arm condition
- ④ Replace the battery cover.

4.2 Clearance and Maintenance

After being long use, detector may get dusty on surface. Use wet cloth or sponge to rub it.

5. System limit

Our products are very reliable, but for some special reasons, the working performance will be limited in certain range. We here list some cases as follows:

- ① The voltage of control panel is not stable;
- ② Low-voltage of the detector.

For any help please contact with our company and you could visit our website for more information.