MD-209R ZICOM

Wireless Magnetic Contact Transmitter Installation Instructions

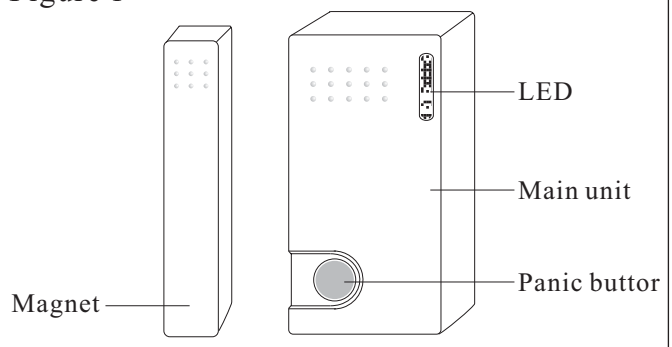
1. Introduction

The MD-209R is a fully supervised mini style magnetic contact transmitter. It features door/ window close/open instant alarm function. It features a built-in reed switch (that opens upon 2 cm removal of a magnet placed near it).Each input has a unique 36-bit Code ID, selected in the factory from over 16 million possible code combinations.

Upon alarm, a digital message is transmitted, alarm and other data are thus forwarded to the receiver. An LED lights whenever alarm or tamper events are reported. The LED does not light while a supervision message is being transmitted. Operating power is obtained from 3 on-board AAA alkaline battery. A weak battery will cause a □low battery□ alarm message transmitted. When the door/window remains open, it also will give an alarm message.

A movement of the magnet triggers the internal sensor in the detector. It can trigger an Instant or Delayed intruder. Alarm and it also has built in tamper sensors. There are inputs for external sensors available. The JA-60N uses a sophisticated radio communication protocolwith a high level of data safety. The detector makes regular auto testing and reports its conditions regularly to the system for full supervision. An automatic testing mode makes testing an ease.

Figure 1



2. Specification

Model:MD-209R
Working range:200m(open area)
Code:28 + 8 (function) ID
Working frequency: 433MHz
Working voltage:4.5V 3x AAA alkaline battery
Battery life: 1 year
Current: static <5uA, alarm <15mA
Alarm output: alarm, tamper
Auto test report:
Transmitting once each 2 hours(normal time)
Transmitting once after 1 minute(after triggered)
Transmitting once after 6 minutes(after triggered)
Working Temeprature:-10C~50C
Dimesion:8x32x24mm
Color: ivory

3. Main functions

A. Adopted low consumption CPU
B. Adopted unique Mutil code
C. Auto status report
D. Anti-lost report
E. Open door/window indication

Attention! *The MCT-302T carries an additional tamper switch under the board. This switch is actuated by a leaf spring, mounted on a small base segment that is loosely connected to the mounting frame.*

Figure 2

remove the mounting frame

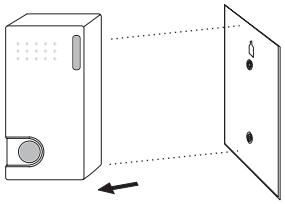


Figure 3

frame on the door/window.

door or windowmounting frame

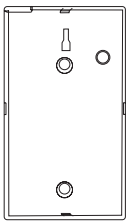


Figure 4

insert bateries to the nain unit.

tamper suitch.

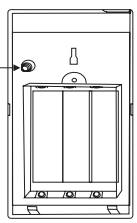
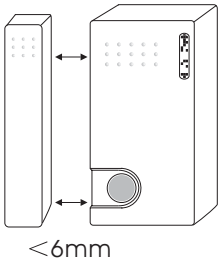


Figure 5



4. Mounting

4.1 Caution: ensure the proper performance, you should avoid to installing the place 1),2) and 3)

1) Places easy to damaged
2) Places unstable
3) Places nearby the magnetic objects

4.2 Installation introduction

A. Remove the mounting frame from the main unit . (Figure 2).

B. Hold the frame against the mounting surface and mark the 2 drilling points through the mounting holes.

C. Drill the holes and fix the frame to the wall using the screws with countersunk heads supplied in t-he package. (Figure 3).

D. Remove the battery cover at the back of the main unit shown in the figure. Here you see the code ID attached.(Figures 4) and insert the batteries between the battery clip. The MD-209R will generate an enrollment signal after the batteries are installed. Attach the main unit to the fixed mounting frame and the magnet to the movable part (door or window - see Figure 3). Locate the magnet not more than 6 mm (0.25 in.) from the transmitter's marked side.

F. Enrollment of the detector to the system:
Study the installation manual of the control panel to learn how to enter the enrolling mode to enroll the MD-209R. Now the control panel is ready to enrolling

a) Triggering the MD-209R by moving the magnetic, then the MD-209R will be enrolled automatically.
b) Remember the zone enrolled for maintenance convenience in the future.
c) Testing: triggering the MD-209R by moving the magnet, when the magnet leaving the main unit, a message will be transmitted, meanwhile the LED light 3 times. When moving the magnet back to the main unit, there will be another alarm message transmitted.

G. Install the main unit back to the clips. removed.

CAUTION! *When installing the PCB board back to he case, ensure don't make Short circuit or damage the components on the PCB board.*

5. Battery testing and replacement

The detector checks its batteries conditions automatically. If it is necessary to replace its batteries(recommend 12 months), the detector will inform the system about the need for new batteries. If a low battery is indicated, it should be replaced as soon as possible (in a week).Use only alkaline AAA batteries for replacement. After replaced new batteries the detector will be in testing mode and each triggering will be indicated by detector's LED. Five minutes after the cover is closed, the detector will automatically enter the normal mode and its LED indicator will be switched off (battery energy saving function).

6. Miscellaneous Comments

These wireless systems are very reliable and are te sted to high standards. However, due to low transmitting power and limited range(required by regulatory authorities), there are some limitations to be considered:

A. Receivers may be blocked by radio signals occurring on or near their operating frequencies, regardless of the digital code used.

B. A receiver or the transmitter at low voltage battery.

C. Wireless devices should be tested regularly to determine whether there are sources of interference and to protect against faults.

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