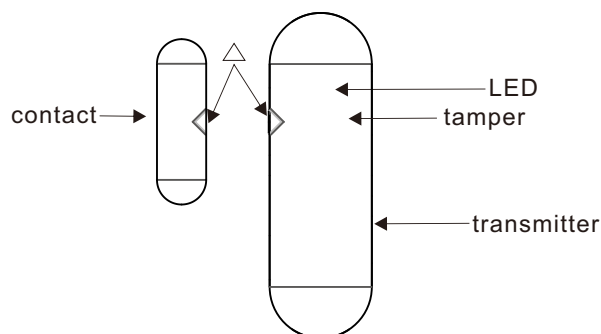


# TC-U9AF-MC/Z

## ZigBee Door / Window Magnetic Sensor Installation Instructions

### 1. Product introduction

TC-U9AF-MC/Z is a mini wireless magnetic contact with elegant design. Its ability of transmitting signal is strong, which can keep high sensitivity within 150m. Before installation, we need to learn its unique address code into the gateway. When install, please pay much attention to the mark on transmitter and contact, keep them on same level as shown in the picture. if someone tries to open the door, once the transmitter and contact separate about 2.5cm, it will send alarm signal to alarm host, the user will get the alert.



### 2. Perimeters

Network protocol: Zigbee IEEE802.15.4  
Communication protocol: Zigbee HA protocol  
Max transmitting frequency: 4dbm  
Working frequency: 2.4Ghz  
Power supply: 3V(CR123A)  
Working current: static  $\leq 15\mu\text{A}$ , alarm  $\leq 10\text{mA}$   
(when within Zigbee network,  $\approx 27\text{mA}$ , in other case,  $\approx 10\text{mA}$ )  
① When alarm, the current increase instantly. After alarm, it will enter into sleep mode.  
② when the voltage gets down to 2.3V, the network gateway will show it low battery. The living-checking time between them is 40min.

Alarm output: alarm report, recovery report, tamper report, low battery report, status report  
Status report: after power on, or transmitter come to work, it will send status reports to gateway every 40min  
Working environment:  $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$  ( $14^{\circ}\text{F} - 122^{\circ}\text{F}$ )  
Dimension: Transmitter 69.5(L)\*21.2(W)\*19.5(H)mm  
Contact 34.5(L)\*10(W)\*13.2(H)mm  
Color: white

### 3. Function and Installation

#### 3.1 main functions

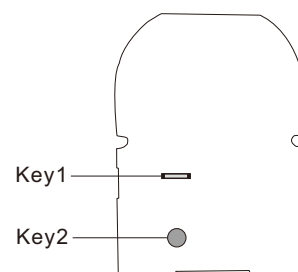
##### A. Open/Close door

On phone app, it displays open/close door dialog box.

1. when contact is close to the transmitter, the door is closed.
2. when contact is getting away from the transmitter, the door is opened.

##### B. Tamper function

There are two buttons on the PCB as shown in the picture, Key1 is for tamper. Key2 is used to work with gateway.



#### 3.2 Learn into Gateway

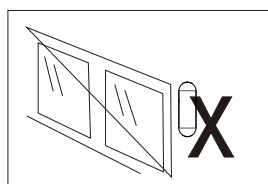
Open the plastic cover, power on the transmitter, press Key2, the red led will last flash every 1s. If done, the led wont flash.

#### 3.3 Delete from Gateway

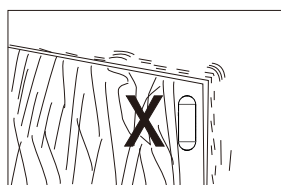
Open the plastic cover, power on the transmitter, keep pressing the small button for more than 6s. At first, red led continue to light, once the red Led begins to flash, it is deleted from the gateway successfully and reset automatically.

#### 3.4 installation precautions

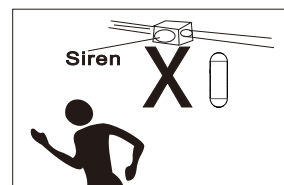
Please pay much attention to the following points in case of failure to use after installation.



A. Do not mount on the place possibly to be destroyed outdoor.



B. Do not mount at the loose place



C. When use as wireless detector, do not mount near strong magnetism item.

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### 3.5 Installation

This magnetic contact uses CR123A lithium battery, which is not installed in factory default. Please install it before use.

- A. Open the cover by pressing the buckle at one end close to led.
- B. Install CR123A battery on PCB, please pay attention to "+-"mark.
- C. Test: pull the contact away from the transmitter, it will send a alarm signal to gateway, meanwhile, led on transmitter will flash.
- D. Close the cover

### 3.6 Install Caution

- A. If not drill on the wall, please use strong double side glue or other strong bonding agent to fix the magnetic stripe and transmitter on the right place
- B. Do not mount on the base-loose place, possible to be destroyed place or with strong magnetic interface(eg. Loudspeaker, high voltage cable)

### 3.7 Precautions

There is a white triangle  $\Delta$  in the surface of transmitter and receiver, keep them on the same level. All alarm happens, the led indicator will flash red once and turn off.

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## 4.Maintenance

### 4.1 change battery

The working life of battery is about one year, change battery when the signal between the detector and alarm host become weak.

1. Open cover
2. Take out used up battery and put in new battery rightly.
3. Test battery, parallel move the magnetic from transmitter, then the control panel will make alarm information.

### 4.2 clean and fix the cover

The surface of the detector will be dusty when used for a long time, please use wet cloth to clean it.

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## 5.Miscellaneous comments

Our wireless products are very reliable and tested to high standards, however, due to low transmitting power and limited range, required by regulatory authorities, there are some limitations to be considered. It will course the panel to make alarm at any alarm situation, following are some common examples

1. Voltage instability for the control panel
2. Under voltage of detector etc.

These problem are not so difficult to solve, if need help please contact the supplier