

TC-U9AF-HW/Z

ZigBee PIR Detector Installation Instructions

1. Product introduction

TC-U9AF-HW/Z is a PIR intruder detector for indoor use. It adopts precision cylindrical FRESNEL lens, can effectively improve energy saving, with high sensitivity and free of false alarm. By using advanced patented software, it can identify the real intruder and other interference factor which may result in false alarm. Pulse counting can be adjustable. It is widely use in various indoor applications, Built-in big capacity lithium battery, power-save mode, Its working life is up to 2 years or above.

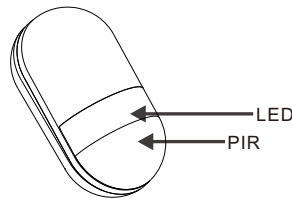


Fig.1 Appearance

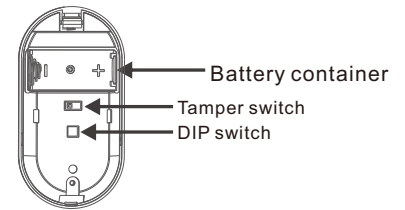
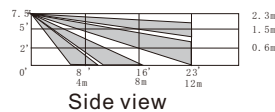
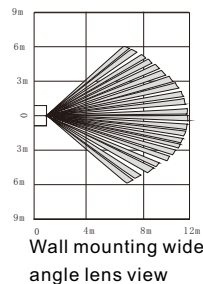


Fig.2 Internal Structure

2. Specifications

Detection range: 12m/25°C
 Emitting distance: 150-200m(in the open air)
 Power supply: 3 VDC 1*CR123A
 current: <math><15\mu A</math>
 Max. alarm current: <math><20mA</math>
 Infrared part e.g right picture
 Max. coverage area: 12m 12m 39 39 inches 90
 Emitting frequency: 2. 4GHz
 Alarm indication: LED flashes 2-3 seconds



Installation:

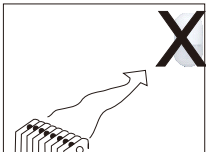
1. Wide angle installation: 12M*12M detection angle 110 degree
2. Installation height: 2.0-2.5m

Operation condition:

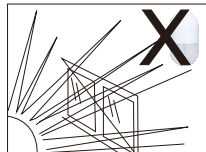
Operation temperature: 10°C~60°C, <math><95\%RH</math>
 Storage temperature: 20°C~60°C (4°F~140°F)
 Size: 86(L)*45(W)*36(H)mm

3. Installation

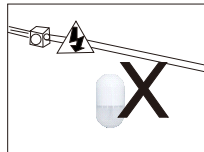
3.1 Notes



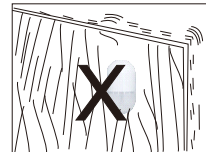
Don't face cold or heat directly



Don't face the sun - shine directly



Don't install near electric cables



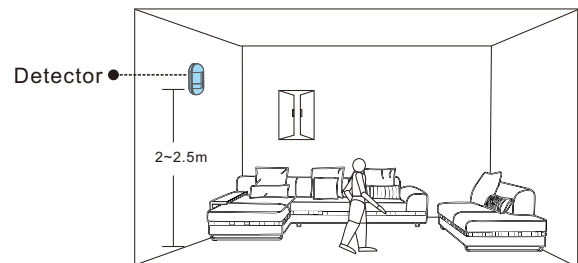
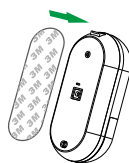
Don't install on a unstable base



Don't face metal wall

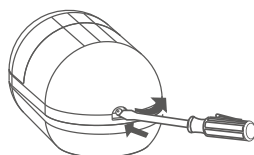
3.2 Installation location

Use double-sided adhesive to install the detector 2 to 2.5 meters from the ground, pay attention to the installation of PIR down.

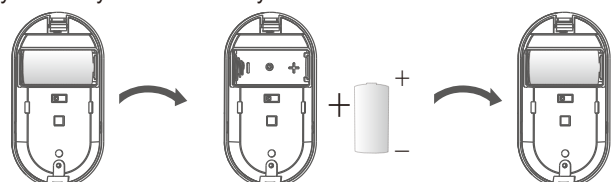


3.3 Change battery:

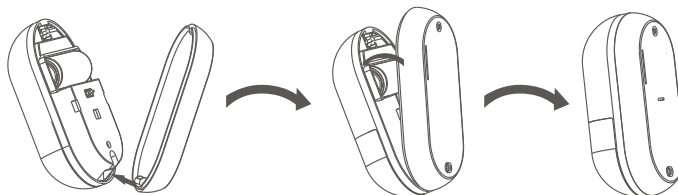
A. with a word screwdriver light top groove, pull out the bottom cover, remove the bottom cover.



B. remove the old battery, according to the marked polarity of the battery correctly into the battery.

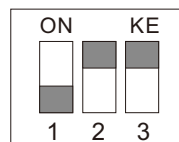


C. the side of the shell with a battery up one end, the bottom cover with a button at one end down the face of the shell to close and pull the bottom cover into the face shell.



4. DIP switch function description

Switch serial number	OFF	ON
1	High sensitivity (default)	Low sensitivity
2	Alarm delay 5 second	Alarm delay 5 minutes (default)
3	LED is off	LED is on (default)

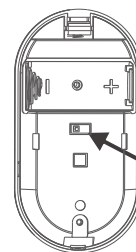


5. Coding method between detector and panel:

Coding setting:

① Set the detector as normal mode, place the battery and LED will flash seconds, set the panel as coding mode (panel coding setting pls refer to panel manual), within 3 seconds when press the confirm key of the panel Wave hand near the front side of detector, it will send a alarm signal to the panel, if the panel sounds a response then code successfully.

② Enter the address number to code with panel, set the panel as manual coding mode and enter the 9-digit address number, this method is much better.



Tamper switch

6. Walking test in coverage area :

- Set the detector as test mode to proceed walk-test.
- Walk across the far edge of coverage area at the speed of 1 step/second (about 0.75m/s). The LED will flash for seconds then alarm (see the right figure).
- Do walk-test in opposite direction to confirm the boundary of both sides. Make sure the detection centre pointing to the centre of protected area.
- Make sure the detection centre at the proper place, should properly adjust the detection area if you can not get an ideal detection area.
- After adjust the detection angle, should re-do walk test as above.
- After passing the test, be sure to set the alarm delay to 5 minutes mode, otherwise it will affect the battery life.

