

User Manual

Wireless PIR sensor BP-WPIR02-868



Enjoy it.

1. Introduction

BP-WPIR02-868 is a passive infrared intrusion detector suitable for indoor use. The passive infrared part of the device adopts the precise cylindrical Fresnel lens, which can effectively improve the efficiency of energy receiving and the detection sensitivity is high, but no false alarm is formed; in combination with the advanced patented software technology, it can make an accurate judgment on the real intruder or other interference factors that may cause false alarm. By selecting the number of pulses, it can be widely used in different installation occasions. CR123A is adopted in this machine, which has a unique power saving mode and a service life of about one year.

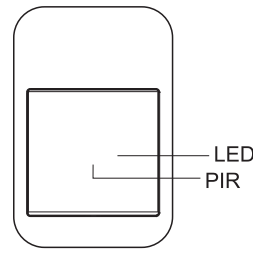


Fig. 1 front view

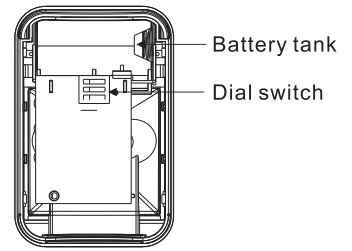
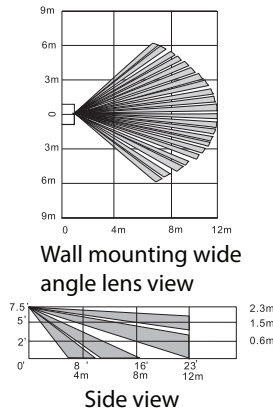


Fig. 2 internal structure

2. Specifications

Model: BP-WPIR02-868
 Maximum detection distance: 12m/25 °C
 Launching distance: 120m (open area)
 Working voltage: DC3V, 1 * CR123A lithium battery
 Working current: ≤35mA
 Static current: ≤ 15 μ A
 Infrared part (as shown on the right)
 Optical lens data
 Infrared area: 33,5
 Maximum coverage: 12m * 12m (39* 39 feet) / 90°
 Debugging mode: FSK
 Transmission frequency: 868MHz
 Alarm indication: LED red flashing



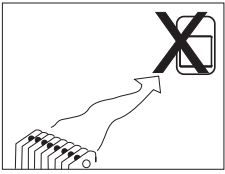
Heartbeat report: every 2 hours
 Power on preheating: LED red light flashes for 20 seconds

Installation:
 Installation method: wall mounting
 Installation height: 1.8 - 2.5m, no included angle between back cover and wall.
 Rotation angle: 30° up and down, 45° left and right

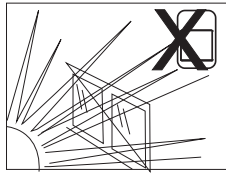
Working environment:
 Operating temperature: -10°C~60°C, 95% RH
 Storage temperature: -20°C~60°C (-4°F ~ 140°F)
 Appearance dimension: 78 (L) x 51.6 (W) x 60.5 (H) mm (including bracket)

3. Installation

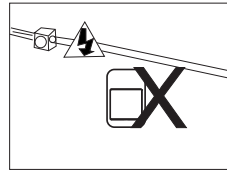
3.1 Installation precautions



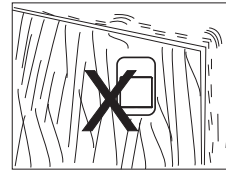
Don not face cold or heat directly



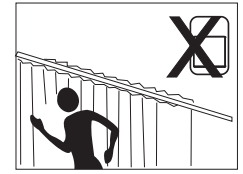
Don not face the sunshine directly



Don not install near electric cables



Don not install on unstable base

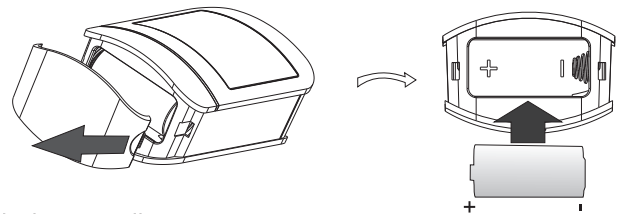


Don not face metal wall

3.2 Battery replacement

When the battery power of the detector is insufficient, the detector will send a corresponding signal to the alarm host. At this time, the customer shall purchase the battery by himself and replace it in time. (as shown on the right)

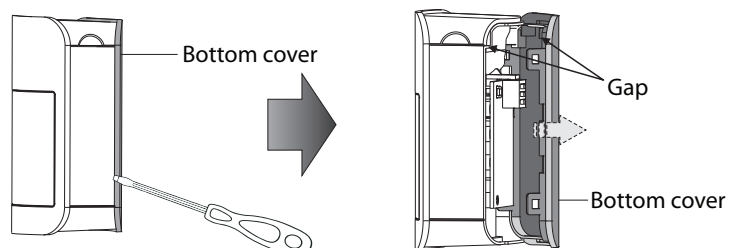
- A. Open the battery cover outwards.
- B. Remove the old battery.
- C. Put the battery in accordance with the positive and negative mark of the battery cell.
- D. Close the battery cover.



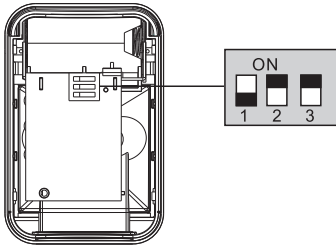
3.3 Disassembly of bottom cover

Remove the bottom cover: to adjust the dial switch, use a slotted screwdriver to open the detector bottom cover and remove the bottom cover.

Install the bottom cover: close the gap between the face shell and the bottom cover.

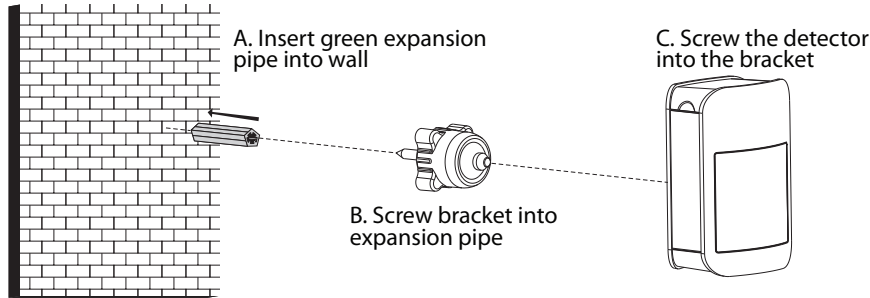


3.4 DIP switch function description



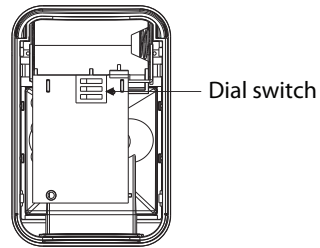
No.	ON	OFF
1	Low sensitivity	High sensitivity (default)
2	Alarm delay 5 minutes (default)	Alarm delay 5 minutes (default)
3	LED is on (default)	LED is off

4. Installation



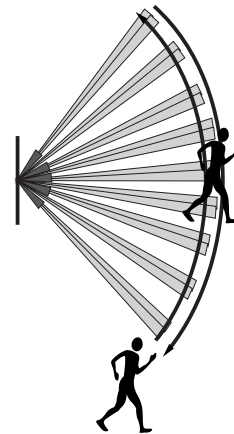
5. Coding method between detector and panel

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.



6. Walking test in coverage area

1. Set the detector as test mode to proceed walk-test. pulse count set as 1, 2 or 3 as per requirement.
2. 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).
3. 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.
4. Make sure the detection centre at the proper place, should properly adjust the detection area if you can not get an ideal detection area.
5. After adjust the detection angle, should re-do walk test as above.
6. After passing the test, be sure to set the alarm delay to 5 minutes mode, otherwise it will affect the battery life.



7. Customer Service

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

For Inquiries, Please contact:

Security Shop
Vladimira Popovica 6/6/A606
11070 Novi Beograd, Serbia
Tell: +381 11 318 68 68
office@securityshop.rs

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