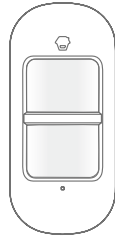


smanos®

Pet-Immune PIR Motion Detector

MD9100

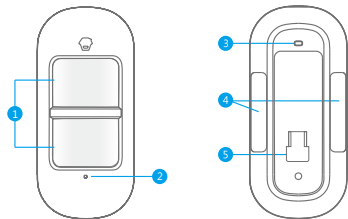


User Manual

Introduction

MD9100 motion detector adopts unique design with dual infrared sensors and intelligent analysis algorithm which effectively identify interference signal from body movement signals. It can reduce false alarm rate caused by pets under 20kgs or other interfering objects. The detector is suitable for lobby, hallway detection with a detective range of 0-9m at front. With low power feedback function, the users will get SMS alert or push message for low battery if the detector has been connected to a GSM or Wi-Fi alarm system.

Product Overview

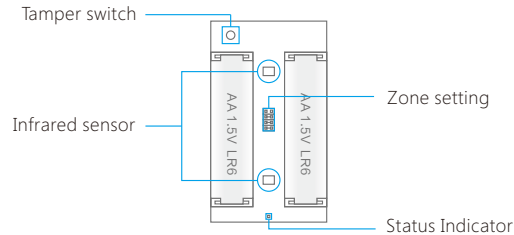


1. Detection window
2. Status indicator
3. Test button
4. Double-sided tape stick place
5. Bracket slot

Status Indication

Display	Meaning
Blinks continuously	Self testing
Blinks once	Intrusion detected
Blinks twice	Testing mode is finished, the detector enters power-saving mode
Blinks once every 3 seconds	Low battery, please replace the battery as soon as possible

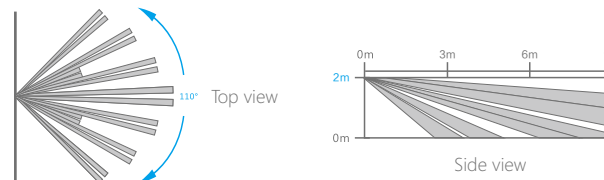
PCB Layout



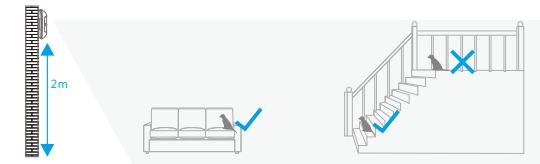
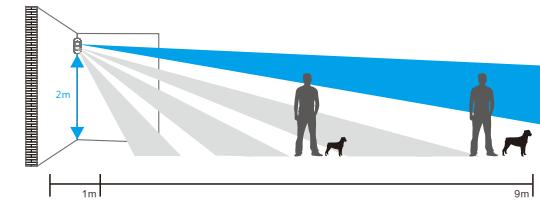
Infrared sensor: It detects the infrared rays released by human body motion, please don't touch the surface and always keep it clean.

Tamper switch: Once the case is opened in working mode, the tamper switch is triggered and then generates an alarm signal.

Detection Range



Pet-Immune Function Illustration



IMPORTANT: If pet-immune function is used, please do not adjust the angle up or down.

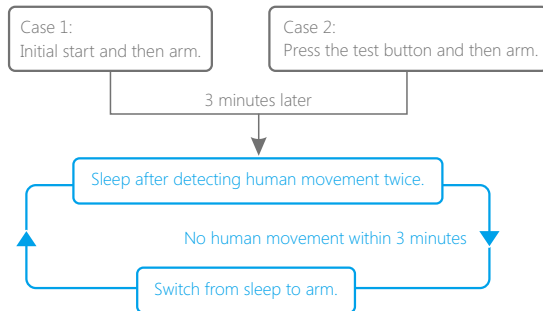
Working Mode

Testing Mode

Press the test button, the detector enters testing mode and detects once every 10 seconds. After 3 minutes, the status indicator blinks twice, and the detector switches to power saving mode.

Power Saving Mode

If the PIR motion detector detects movements twice in 3 minutes, it automatically goes into a sleep state. If there is no movement detected in next 3 minutes, it will switch from sleep state to arm. During the 3 minutes, the detector won't be active and send any signals to the control panel. As long as there is a movement detected within 3 minutes, the duration of power saving mode will be extended.



Pairing to Control Panel

Control panel enters pairing state

Make the control panel in pairing state.

Press the test button

Press the test button on the back of the detector twice, the control panel beeps once to indicate a successful pairing.

Note: If the control panel beeps twice when the above operation is done, it means the detector has been paired already.

Test

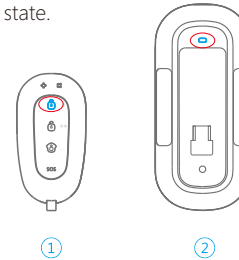
It is to check whether the PIR motion detector can work properly or not.

① Arm the system

Make sure the alarm system is in armed state.

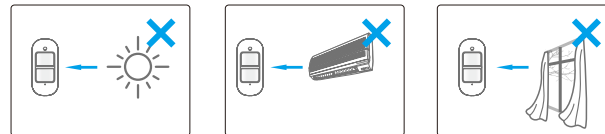
② Trigger an alarm

Press the test button until an alarm is triggered. The detector is proved to be connected successfully and ready for installation.

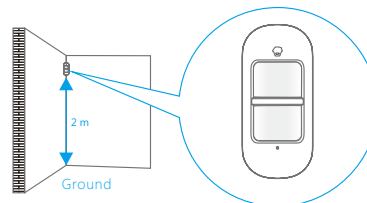


Installation

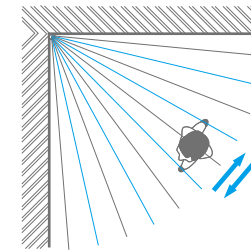
Important: Avoid installing the motion detector directly toward windows or near heat sources, such as heat extraction units, air-condition, micro-wave oven, refrigerator etc. Also try to avoid placing two motion detectors in the opposite of each other and don't place them in each other's detection range.



Step 1: The ideal mounting height of the motion detector is 2 meters from the floor. It is suggested to mount it at the corner of the wall or just stick it to the wall by using the supplied 3M sticker.



Step 2: After mounting the detector, please walk from left to right in the room for a test; The status indicator will blink once when motion is detected.



Note: This PIR motion detector can also be mounted at special location by using the supplied bracket and screw kits.

Specifications

Power Supply DC 3V (AA 1.5V LR6 battery x 2 pcs)

Static Current <50 uA

Alarm Current <9.5 mA

Detection Scope 9m/110°

Pet Immunity <25 kgs

Transmitting Distance <80 m (open area/ no interference)

Radio Frequency 868 MHz or 915 MHz (±75KHz)

Housing Material ABS plastic

Operation Condition Temperature: -10°C ~+ 55°C

Relative Humidity: <80% (non-condensing)

Detector Dimensions (L x W x H) 108 x 52 x 36.8 mm

Bracket Dimensions (L x W x H) 52 x 30 x 26.5 mm

smanos®

产品型号	MD9100	部件名称	说明书
设 计	林寿	材 料	80克书写纸
印刷尺寸	285x210mm	成品尺寸	95x70mm
工 艺	折页	版 本	Ver: MD9100-UM-EN-V1.0
<p>注:</p> <p>双色、单面印刷</p>			