

LEEDARSON

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LEEDARSON Multi-Sensor

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Multi-Sensor

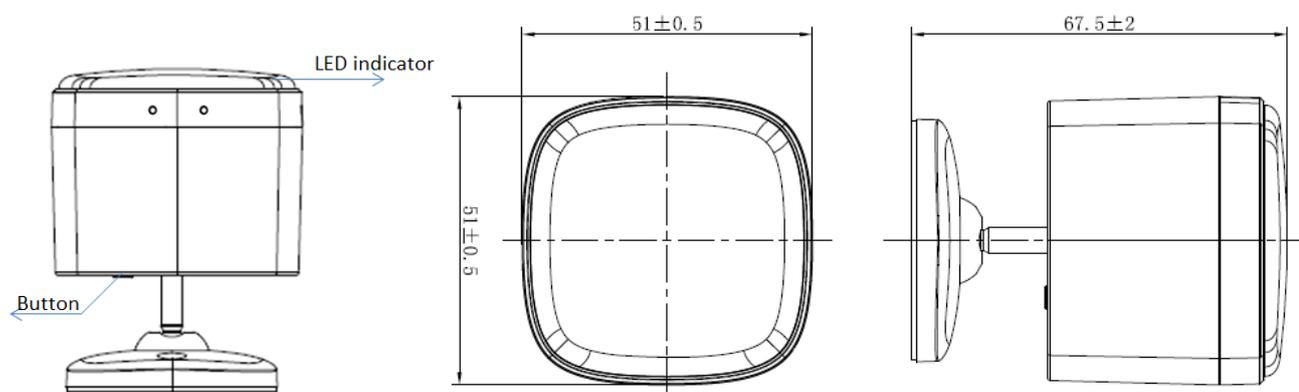
Quick Start Guide

1. Product Introduction

The Multi sensor is designed for using with scenes in home automation systems, integrate motion, light, temperature and humidity sensors, powered by CR123A battery or USB cable. The Motion Sensor lets you know when movement is detected in a certain area and can trigger different actions in response to that movement (or lack of movement). It also lets you know the ambient temperature and humidity to trigger different actions to make you more comfort. This sensor integrated Zigbee communication module to connect with Zigbee gateway.

2. Product Appearance

Product appearance and function overview.



- ① **Reset** : Using the pin to press the reset button for 3 seconds then release the pin to reset the sensor. After the reset, the sensor will be found by the App or the gateway when they search for the device.
- ② **LED Indicator**: If sensor has not been added to gateway, the LED will be blinking about one time per second. The LED will turn off when joined to gateway successfully.

3. Specification

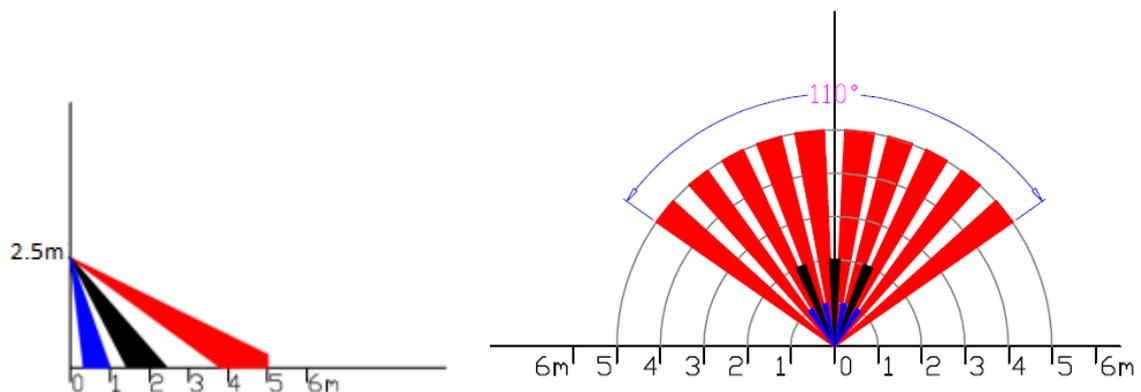
Detection Technology	PIR (Passive Infrared)
Detection Angle	100°±10°
Temperature Accuracy	±1°C
Humidity Accuracy	±5%
Communication Protocol	Zigbee
Radio Frequency	2.4G (2405-2480MHz)
Wireless Range	40m (Line of sight) outdoor About 30m indoors (depending on building materials)
RF Output power(E.I.R.P.)	6.3 dBm
Power Source	3V, CR123A *1
Power source USB connector	5V USB port, support external 5V power adapter
Battery Life	2 years
Mounting	Screws or 3M Tape
Mounting Height (recommended)	7.22 ft to 9.19 ft (2.2m to 2.8m) recommend 2.5 meters
Mounting Location	Wall Surface
Operating Temperature	-10°C to + 45°C
Operating Humidity	Up to 85% non-condensing
Certifications	CE/FCC
Dimensions (mm)	51(L)X51(W)X67.5(H) mm (with mounting bracket)
OTA	Yes

4. Features/Capabilities:

- The LEEDARSON Multi Sensor is a universal Zigbee Motion Sensor.
- The LEEDARSON Multi Sensor detects motion / Luminance intensity/ Temperature/ Humidity.
- The LEEDARSON Multi Sensor is powered by one CR123A batteries with 2 years battery life.
- The LEEDARSON Multi Sensor is designed to be mounted on the wall and indoor use only.
- The LEEDARSON Multi Sensor has configuration Luminance intensity/ Temperature/ Humidity Report time interval.
- The LEEDARSON Multi Sensor has detective range 5m(max.).
- The LEEDARSON Multi Sensor Support low battery alarm function.
- The LEEDARSON Multi Sensor Support firmware OTA.
- After installation, detect direction can be adjusted by universal wheels.

5. Installation Position and Notes

1. Installation position should be chosen at the area which the pass-by will be across, try to make the pass-by in the detection area as below.

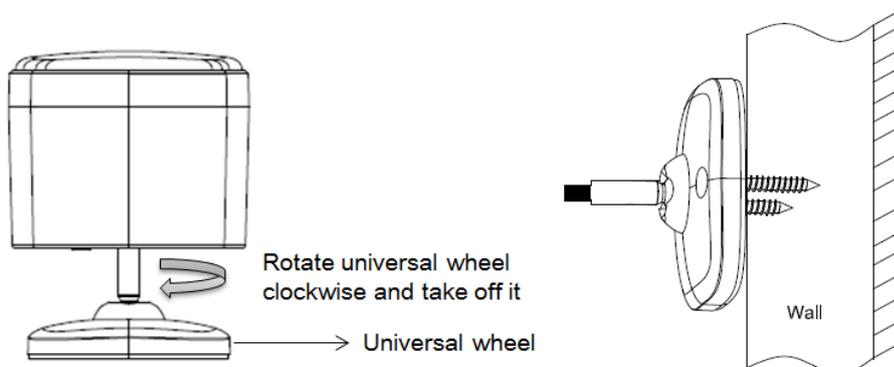


2. Do avoid installation near air-conditioner, electric fans, refrigerators, ovens or other places where temperature easy change.
3. In order not to affect the detecting result, there should be no object in front of the produces lens.
4. Building (such as the wall) will shorten the distance of wireless communication.

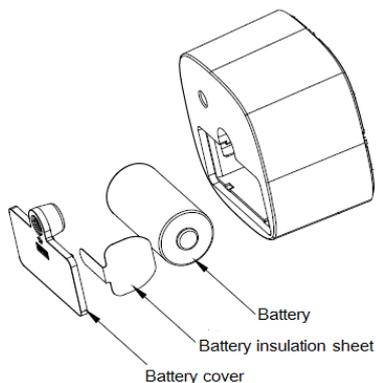
6. Product Installation

Adding the device as accessories, install it according to the diagram below:

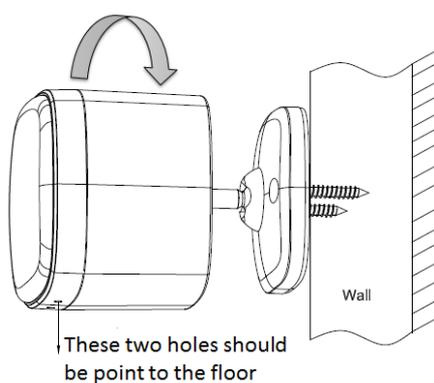
- ① Choose the installation location on the wall, fix the universal wheels by screw or 3M adhesion tape on the wall.



- ② Take off the bracket in the back, install battery into the body.



- ③ Assembly the body to the universal wheels, adjust the detection position, then installation finishes.



7. Attention

1. If need to clean the sensor, please use a soft cloth with a little alcohol to wipe it after you cut off the power.
2. This product is just for indoor use.
3. Replace the battery timely on low battery warning to ensure the detector works properly. Please remove the battery and safe keeping, if you don't use this product for a long time.
4. This device can be mounted on the wall only, it cannot be installed on the ceiling.
5. The reference range template of PIR detection is tested at the indoor temperature (the range is 20°C ~ 25°C), the target of the test is 77kg ± 10kg weight and 1.71m ± 0.3m height, the target of the test across movement speed is 4m/s ± 0.15m/s.

6. In order to prevent the PIR sensor's abnormal fault, please don't mounting and operating sensor in the bellow conditions,

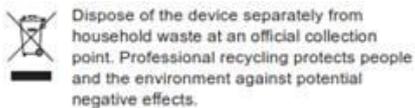
Firstly, product mounting should prevent installed in the air flow environment such as in front of the door, window, heater, air conditioner and so on.

Secondly, the PIR detection area should not be shielded by other screen.

Thirdly, if the operating temperature range is out of the defined range of product specification may result in some product faults, which is not in the technique commitment of manufacturer.

Fourthly, this product has mot pet immunity function, so when some animals go through in front of the product may trigger PIR function reported.

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC NOTICE TO CANADIAN USERS

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003 (Cet appareil numérique de la Classe B conforme à la norme NMB-003 du Canada).