Human Body Infrared Sensor

CT-SMEA2004-QR/CT-SMEF2004-QR
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Introduction

In recent years, with the rapid development of smart home system, a wide variety of human body infrared devices come out in an unending flow, such as some automatic doors in some public places, etc. Human body infrared sensor module has two characteristics: first, from the point of view of energy saving, it can be used for indoor lighting and other electrical appliances automatically power on/off, second is used for anti-theft alarm system.

The sensor uses a dual infrared detector to sense the human body signal, which can collect the indoor brightness information regularly. Illumination information is sent to the LED lamp through the 433.92MHz module, and controls the LED to turn on and off.

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Technical Information

- Compatible with any EnOcean network controller

- Easy to install

- Long service life
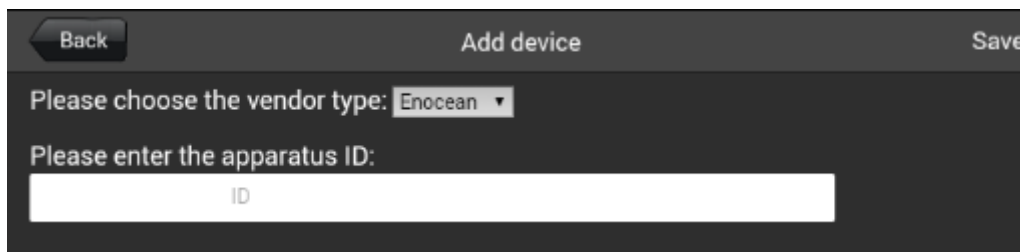
Specifications

- Radio protocol: EnOcean 868.3MHz

- Data rate/Modulation type: CT-SMEA2004-QR   125kbps/ASK

                             CT-SMEF2004-QR   125kbps/FSK

- Power supply: 3V (CR123A battery)

- Battery life: 1.5 years (40 times /day)

- Low power detection: 2.6V, low power, flash 2 times every 30 seconds

- Detection Angle: 120°

- Detection Distance: 5m

- Illumination measuring range: 0-500 Lux (maximum 1000 Lux)

- Temperature range：-10～45℃

- Humidity range: 10%-90% RH

- Installation：Screwed or Pasted or Place directly on the desktop

- Dimension： 65 x 65 x 39mm

Operation

Including of EnOcean network

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1) Make sure the device has sufficient power.

2) Choose "Enocean" to enter the Network Inclusion mode on the APP, and input the Apparatus ID, then click "Save".

3) Press the LRN button in 8 seconds

Fig.1

4) When prompt a message "Request Access Success", please go to the device list interface, and refresh the device list, the device will be displayed.

Installation Instructions

The device will enter the detection state after including of EnOcean network. The sensor module has two characteristics: first, from the point of view of energy saving, it can be used for indoor lighting and other electrical appliances automatically power on/off. When someone entered the room, the lamp will automatically be ON, otherwise, the lamp will automatically be OFF. Second,

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the device can be linked with the alarm, when someone broke into the room, it will send an alarm signal to remind the relevant personnel to take security measures. In addition, if you have done the SMS alarm or mailbox alarm configuration, you will receive alarm information when the alarm is triggered. At this time, when clicking on the alarm information, you will be aware of the specific situation and decide whether to take corresponding measures.

Installation Position

1) Place directly on the desktop.

2) Mount on the wall (Height ≤2.4m).

3) Install in the ceiling (Height ≤2.4m).

Installation Steps

In order to ensure the detection effect, this device should be placed in a place which is good permeability. In addition, this device does not need additional wiring, directly through the external 3V (CR123A) battery power supply, even if people do not understand the knowledge of electrical appliances can be very convenient to install.

1) Directly Installation: place on the desktop directly

2) Pasted Installation: using double-sided adhesive paste to the back of the device, and then paste it directly into the right position (wall or ceiling)

3) Screwed Installation: Punch holes in the wall or ceiling, then fix the bracket to the proper position with a screw, align the hole and press the detector and rotate clockwise to fix on the bracket.

Safety Notice

➢ During installation, protect the device from any physical damage by dropping or bumping. If happened, please contact the supplier for maintenance.

➢ Keep the device away from acid-base and other corrosive solids, liquids, gases, to avoid damage.

➢ Avoid overexertion during operation, to protect device from mechanical damage.

➢ Pay attention to the using range.

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➢ Read all instructions and documentation and save for future reference.