Solar Powered Occupancy Sensor

CT-SMEA2004-PT/CT-SMEF2004-PT
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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. Solar Powered Occupancy 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 occupancy sensor with solar powered by indoor light is designed for accurately detecting

when an area is occupied or not. This device is wireless, Obtain energy from light and stored, and uses a passive infrared (PIR) sensor to detect motion for transmits RF signals to control lighting, curtain and other devices more efficiently.

Technical Information

- Compatible with any EnOcean network controller
- Without external power supply
- Easy to install
- Long service life

Specifications

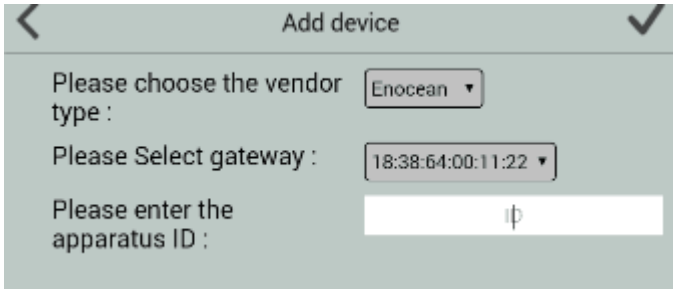
- Radio protocol: EnOcean 868.3MHz
- Data rate/Modulation type: CT-SMEA2004-PT 125kbps/ASK
  CT-SMEF2004-PT 125kbps/FSK
- Power supply: Indoor light, or use Li-SOCl2 battery(1/2AA)
- Minimum operating light: >50lux
- Operating life in Darkness: 72hours(after full charge and without Li-SOCl2 battery)
- Detection Angle: 120°
- Illumination measuring range: 20~1000 lux
- Temperature range：-10～60℃
- Humidity range: 20%-95% RH
- Installation：Screwed or Pasted
- Transmission range: 300m free field, typ. 30m within buildings
- Dimension： 210mm×69mm×45mm

Operation

Including of EnOcean network

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 "✓".



3) Press the LRN (learn) 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, 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.

DEVICE INSTALLATION

Decide which place to be protected by the Solar Powered Occupancy Sensor. If you want to fix it to a location, just paste the double-sided adhesive on the back of the device, then paste it into the right place. What's more, you can complete the installation by screwing, the steps are as follows:

1. Ensure that the system properly powered

   The device is a passive wireless sensor, supplied by indoor light, or use Li-SOCl2 battery (1/2AA) or connect to 2.5V~24V external power

2. Position the base on the wall or ceiling, gently mark two small points with a pencil. (Figure 2).

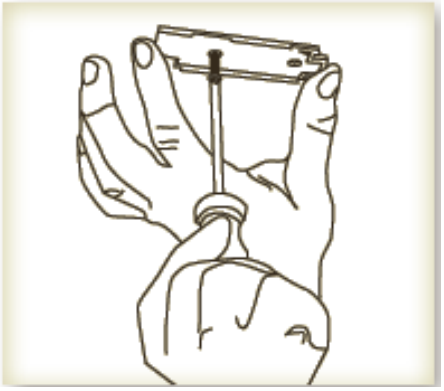


Fig.2

3. Fix the base on the selected installation position with the mounting screw.

4. Put the detector into the card slot, fixed. (Figure 3)

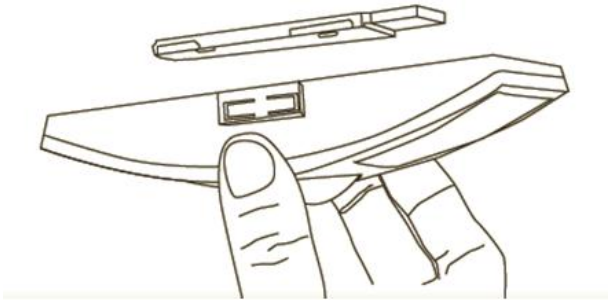


Fig.3

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