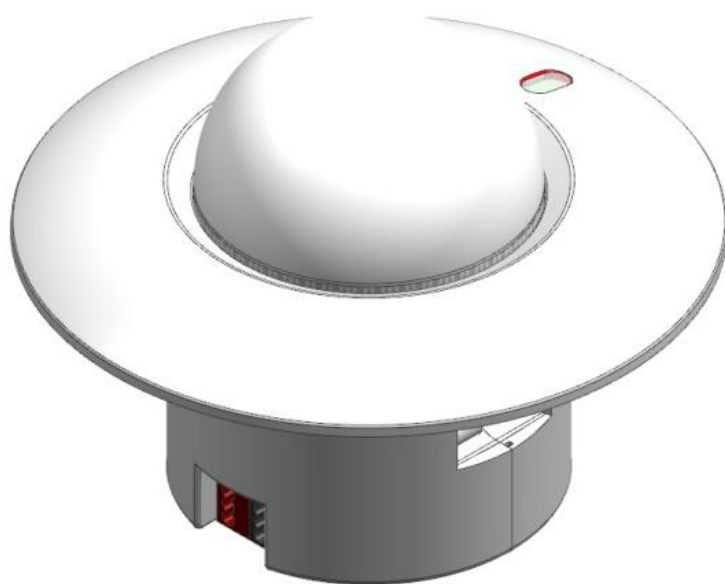


2016

KNX Presence Detector Manual



The manual refer to the following devices:

SATION-SS3001.1 PIR presence detector

SATION-SS3002.1 MW presence detector

SATION-SS3003.1 PIR presence detector with constant level light

SATION-SS3004.1 MW presence detector with constant level light

Zhuhai Sation Technology Co.Ltd

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Version

Version NO.	Release time	Description
V1.0	Jan.30th.2016	First release
V1.1	Sep.10th.2016	Product update
V1.2	Dec.20th.2016	Modify the technical parameters

Notice

1. Please carefully read this manual before using the product
2. This product is used in indoor environment and installed in electrical control box
3. Please install this product in a dry and ventilated place
4. Before power on, please confirm the input voltage according to the manual; after power on, please confirm the normal output voltage before connecting to the control bus
5. Please make sure the secure shell is in good condition, if the shell is damaged, please stop using to avoid accident
6. The power lead and ground lead must meet the requirement of Electrical Installation Standard
7. Only used indoor, model number need to be changed for outdoor use
8. This product is NOT a toy, please make sure it is out of childrens' touch
9. Only be suitable for EIB/KNX system bus
10. Others:

The below sign indicates this product can't be dealt as ordinary family rubbish,in order to avoid the possible environment and human health harm caused by the electrical waste, this product must follow recovery processing. Please contact the local recycling department after this product is scrapped, to make sure it can go as the right waste processing procedure.



1 Technical data

KNX Bus Supply	DC 21V~31V
AUX auxiliary power supply	DC 12V~31V
Supply current	< 12mA
consumption	<360mW
Program button	Push shell cover or Fresnel lens to distribute physical address and program
LED Display	LED
Detection range	High sensitivity area: 4~6m Low sensitivity area:6~10m
Detection angle	PIR:100°; MW:160°
Adjustable sensitivity level	10 level
Installation height	PIR :2m~4m, recommend:2.7m MW:2m~10m;
Installation	Celling
environment light Measurement range	1 lux~60k lux
Temperature measurement range	-20°C~55°C, ±1.5°C
Operation temperature	-5°C~+45°C
Storage temperature	-25°C~+55°C
Transport temperature	-30°C~+70°C

2 Overview

2.1 Application Area

According to the brightness, Presence Detector via human body motion to control load automatically, realizing a comfortable, save energy, security purpose of intelligent building. It can be applied in many occasions, such as Office, Meeting room, Rest room, corridor, warehouse, staircase, etc.

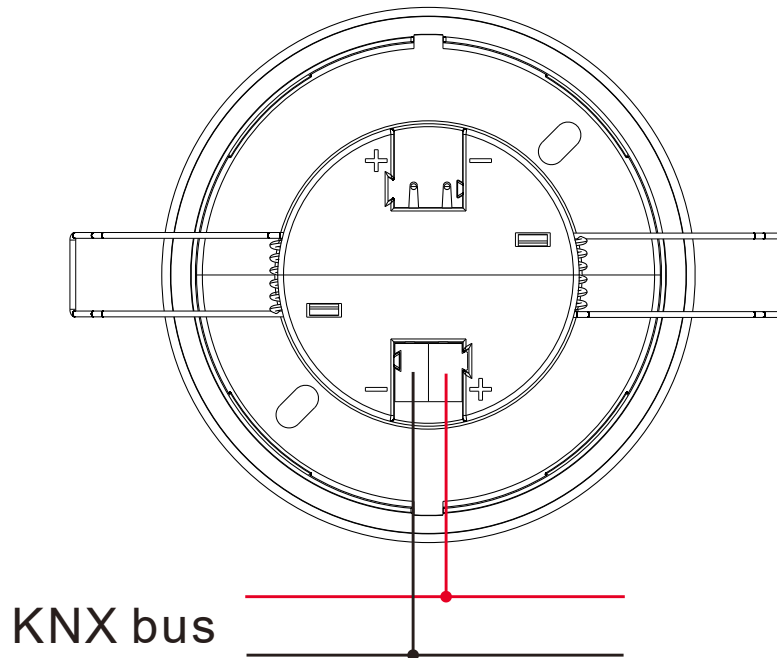
2.2 Overview Functions

SATION Presence Detector functions are as follows:

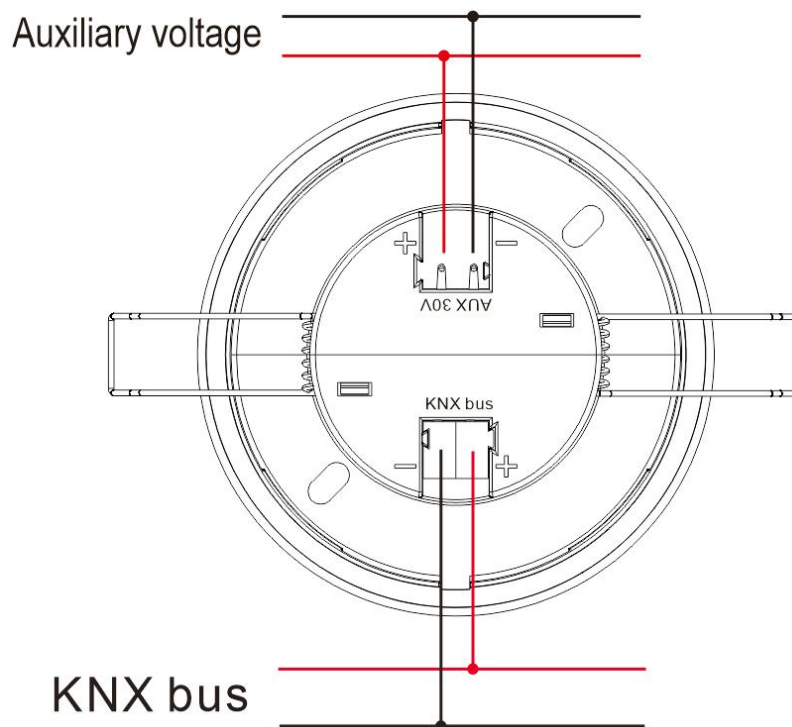
1. Brightness detection range: 1 lux ~ 60k lux
2. Day/Night function can be configured independently and also can switching externally
3. Support motion monitor function of 3 kinds of output data. Such as switching value, dimming value, scene value.
4. Operating mode: manual mode; Full-automatic mode; semi-automatic mode; support stand by mode when input dimming.
5. Support setting work load brightness threshold.
6. Support motion detector from 0-10 level sensitivity.
7. Support setting work load cycle and idle cycle.
8. Support master-slave function. Master have 3 kinds of output data.
9. Support brightness value output, the value can be send in circle mode at scheduled time.
10. Support the changing brightness value output to toggle to switching mode.
11. Support correct brightness value via external or internal.
12. Support constant level light function.
13. Support measured temperature value cycle send.

2.3 Circuit diagram

SATION-SS3001.0101, SATION-SS3003.0101:

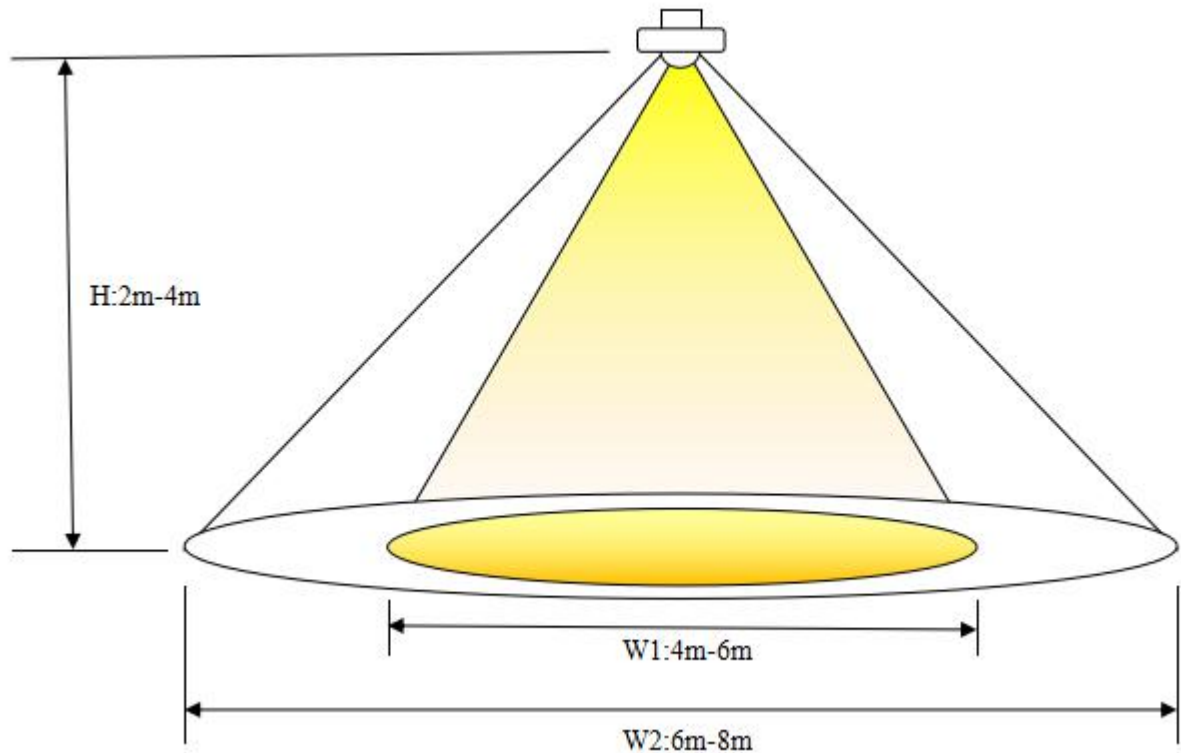


SATION-SS3002.0101, SATION-SS3004.0101:



2.4 Detection Area

Such as PIR presence detector, it should be installed in the middle of the room. The height should be in 2m-4m. The following figure shows the detection area of PIR Presence Detector.



High : Normal operating range: 2m ~ 4m, Range of sensitivity: 2.5m ~ 3m ,
Recommend range: 2.7m

Angle: Detection angle about 100 °

PIR presence detector: High sensitivity area $W1: 4m \sim 6m$

Low sensitivity area $W2: 6m \sim 8m$

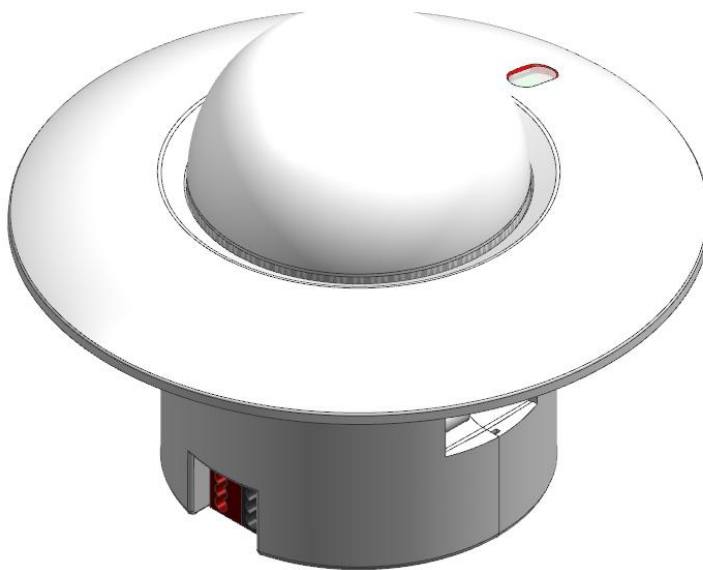
MW presence detector: High sensitivity area $W1: 6m \sim 10m$

Low sensitivity area $W2: 10m \sim 18m$

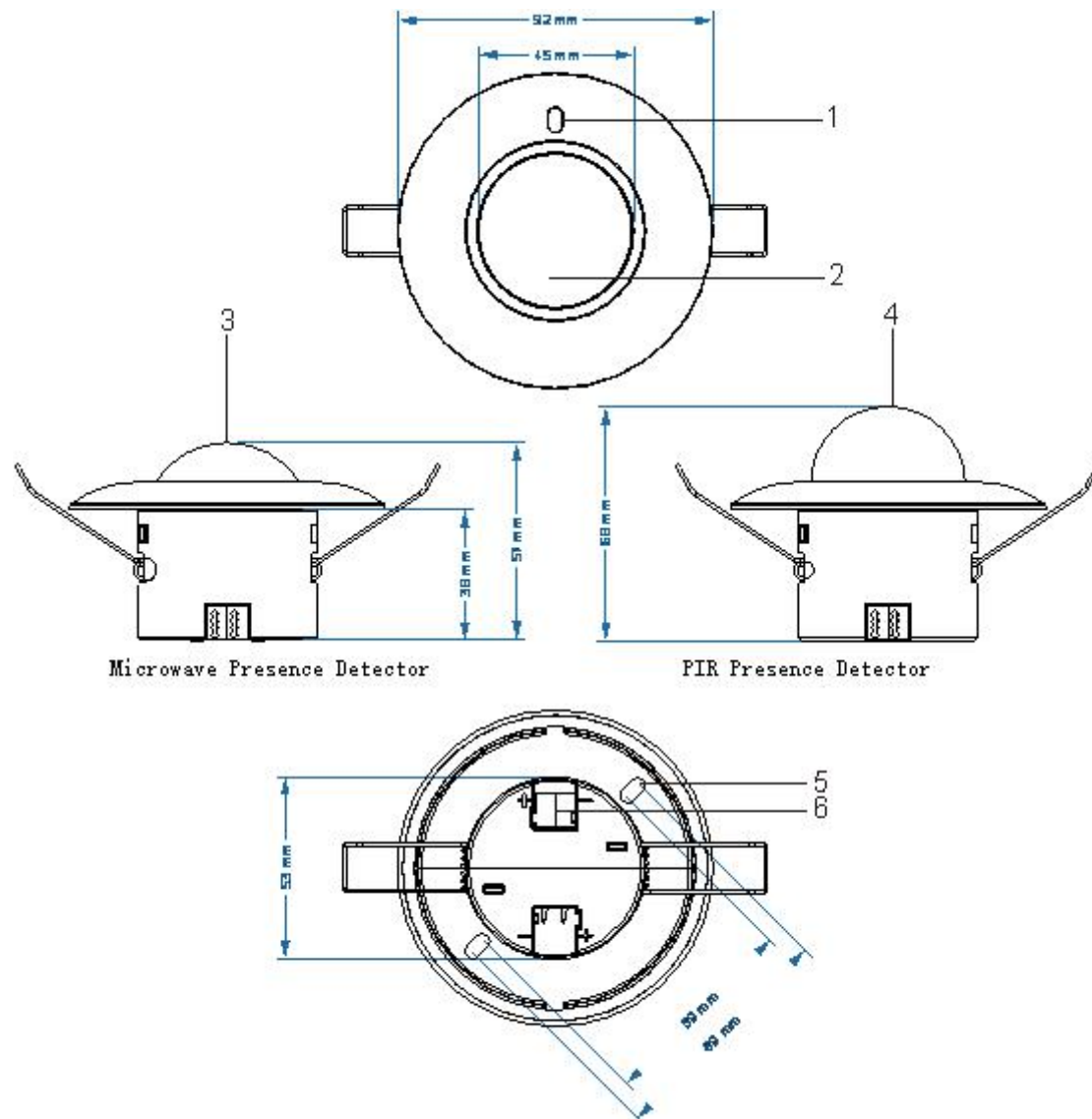
Note : At different sensitivity level, Detection range also different. Sensitivity level more higher, detection range more wider. Because of the different environment influence , the parameter would be a little bite different , so user can adjust sensitivity level according the site environment.

3 Appearance

3.1 Appearance



3.2 Size

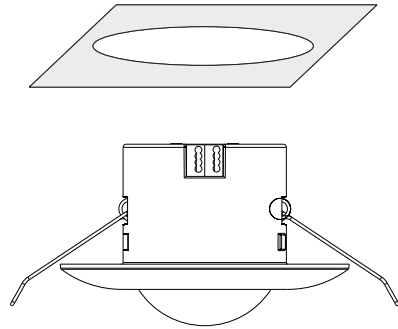


- 1 Brightness sensor's window
- 2 The position of programming LED(shell cover and Fresnel lens)
- 3 Shell cove, (push it into programming mode).
- 4 Fresnel lens, program button
- 5 Cassette type hole site
- 6 KNX Bus terminal

3.3 Installation

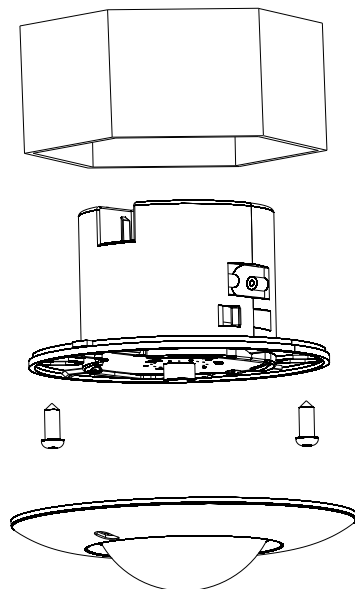
3.3.1 Open-cell ceiling

Diameter : 60mm~70mm



3.3.2 Cassette Type ceiling

About installation, The depth of octagonal cassette should over 45mm, the distance of two screws should be in 59~69mm.



3.3.3 Attention

1. Avoid installing Presence Detector on the heating devices.
2. Avoid installing Presence Detector on the place with direct sunlight .
- 3 Avoid installing PIR Presence Detector on the place where near Air condition , Fan , window and door.
- 4 Avoid invalid light source into Brightness sensor's window to disturb the light measurement.
- 5 The install direction reference the Brightness sensor's window oriented. If presence detector installed in lane, then the install direction should be paralleled with lane.

4 Contact Us

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