PD-PIR158
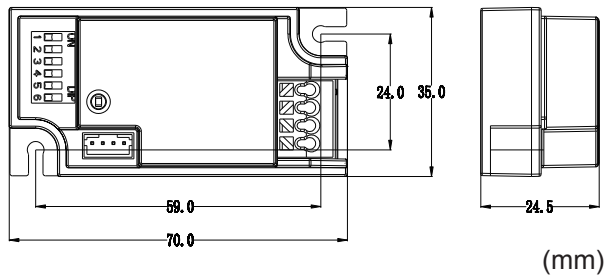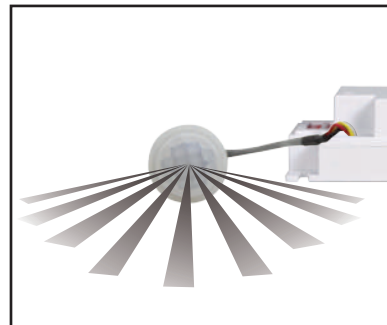# Infrared Sensor Instruction

(mm)

Summary

This product is an energy automatic sensor switch,it can identify day and night. It adopts infrared detector, IC and SMD technology, when someone enter its detecting range and triggered it work, the infrared detector turn on the lamp, after he leave its range, the lamp will turn off automatically. It can detect the ambient light illumination automatically and set and adjust the value according to the fact need. Such as, the light will turn on and works when the ambient light illumination is under setting value. once it exceeds the setting value, the light will stop working. It can be installed in indoor, corridor and public-building.
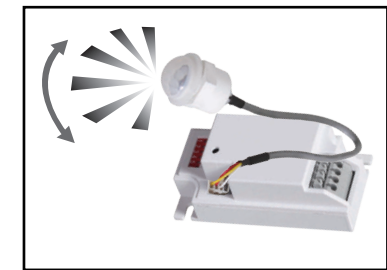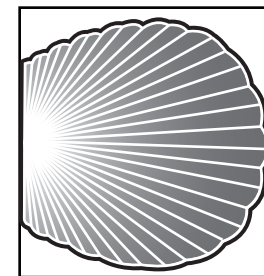
Specifications

Power source: 220-240VAC,50Hz
Rated load: 800W Max.
Time setting: 10s、2 Min、6 Min、12 Min(adjustable)
Light-control: 10LUX、50LUX、150LUX、>300LUX (adjustable)

Detection range: 8±1m (24°C) (adjustable)
Detection angle: 100°
Working temperature: -10~+40°C
Working humidity: ≤93%RH

Sensor information

8±1m (24°C)
Correct moving orientation

100°
Detection angle

Name of each part

S1 S2 S3 S4 S5 S6

ON
1
0
1 2 3 4 5 6

SENS:S1,S2   TIME:S3,S4   LUX:S5,S6

DIP switch

PIR sensor
Screw cap
Wirie
Wiring
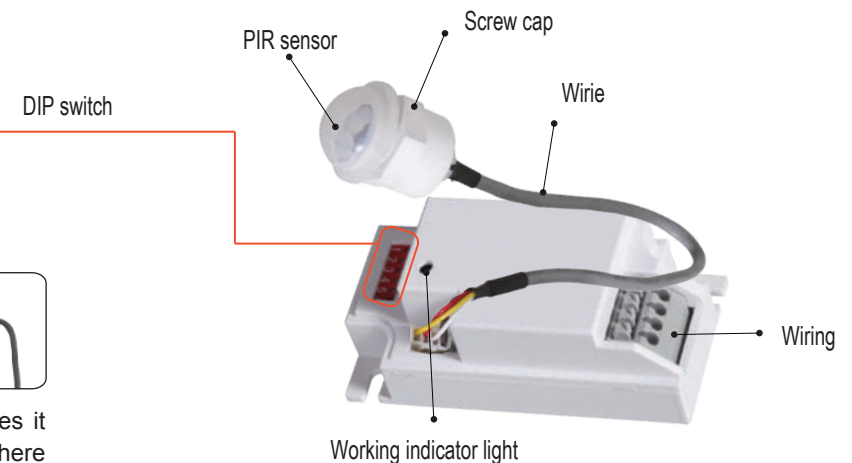Working indicator light
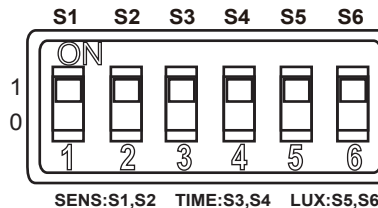
The nuts design at the head of the sensor makes it more convenient to fix on the installation object. There is also wiring for fixing made of plastic at its bottom in order to add its strength when being installed.

Function

1.Adopts 6-bit DIP switch:

·You can select working light to work only in the light below 10lux or in any light;

·Adjustable sensitivity;

·Choose working time-delay of the load: 10s, 2Min, 6Min, 12Min;

2.The time that the load work can delay automatically: it re-computes time after the last sensing;

3.Out connect infrared detector and sensitization resistor;

4.Simple structure and using convenient.

L'
L — AC Input
N
N

L'
L
N
N
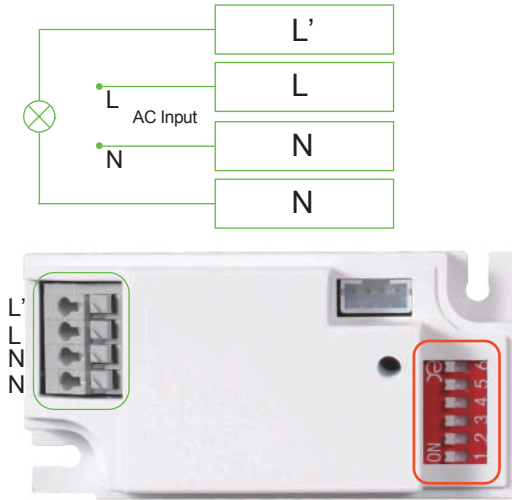
S1	S2	Detection range
0	0	25%
0	1	50%
1	0	75%
1	1	100%

S3	S4	Time setting
0	0	10s
0	1	2min
1	0	6min
1	1	12min

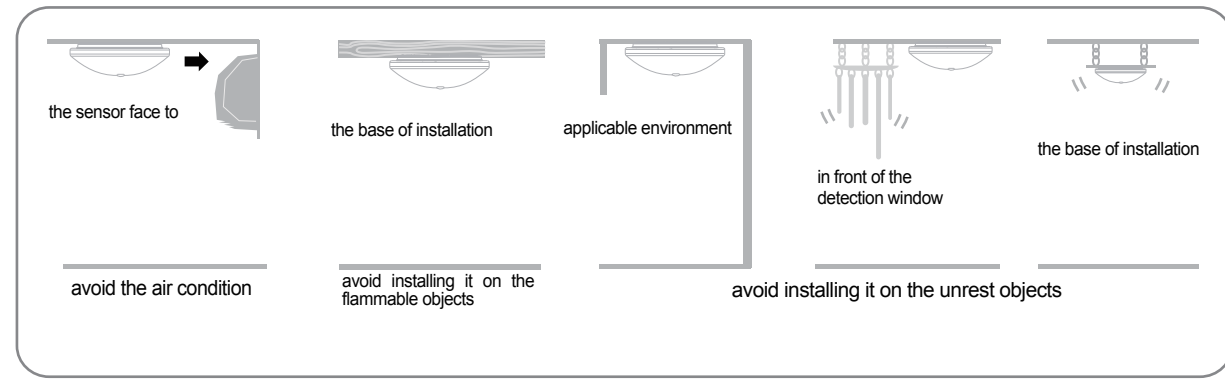| S5	S6	Light-control
0	0	10 LUX
0	1	50 LUX
1	0	150 LUX
1	1	>300 LUX

NOTE:The maximum detection distance: 8 ± 1m

ATTENTION: When use this product, please adjust the sensitivity to an appropriate position you need, please do not adjust the sensitivity to maximum, to avoid the product does not work normally caused by wrong motion.Because the sensitivity is too high easily detect the wrong motion by wind blowing leaves & curtains, small animals, and the wrong motion by interference of power grid & electrical equipment. All those lead the product does not work normally !

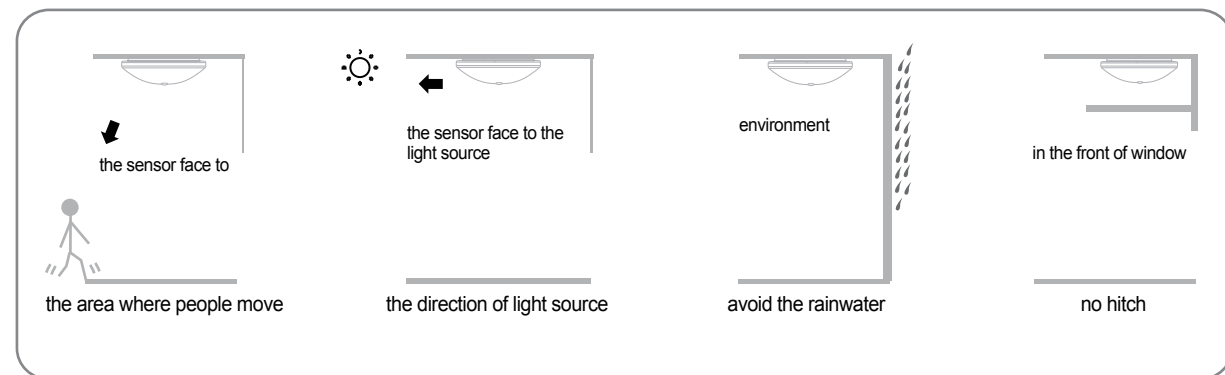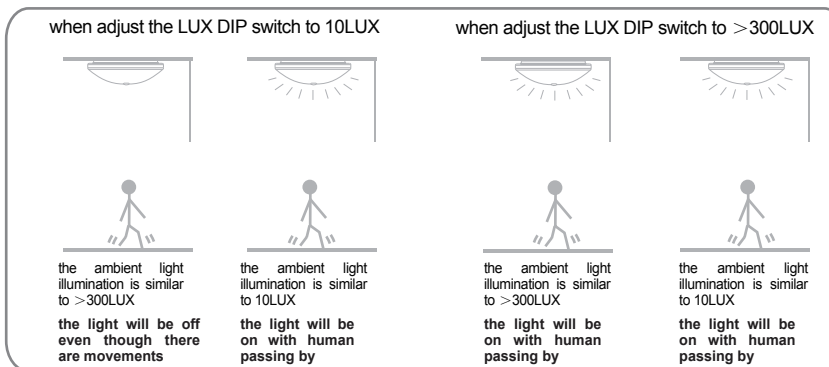**When the product does not work normally, please try to lower the sensitivity appropriately, and then test it.**

Operating principle of time setting

Within the time setting

Within the time setting

Within the time setting

Once the time setting past

the light will be on once receive the signal from human passing by the detection range.

the light will be always on and the time setting will be overlaid when human go through the detection time and again.

the light will be on even if there is no any movement.

the light will be off when there is no any movement .

Operating principle of the light-control

when adjust the LUX DIP switch to 10LUX

when adjust the LUX DIP switch to >300LUX

the ambient light illumination is similar to >300LUX

the light will be off even though there are movements

the ambient light illumination is similar to 10LUX

the light will be on with human passing by

the ambient light illumination is similar to >300LUX

the light will be on with human passing by

the ambient light illumination is similar to 10LUX

the light will be on with human passing by

Pay attention to installation

the sensor face to

the base of installation

applicable environment

in front of the detection window

the base of installation

avoid the air condition

avoid installing it on the flammable objects

avoid installing it on the unrest objects

the sensor face to

the area where people move

the sensor face to the light source

the direction of light source

environment

avoid the rainwater

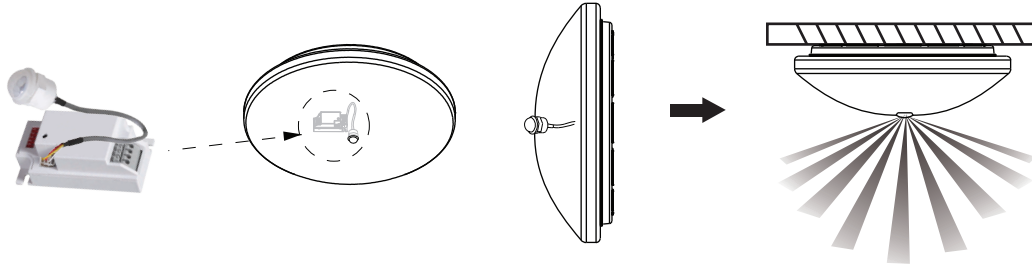in the front of window

no hitch

For occasions

It can be installed in indoor, corridor and public-building.

Installed inside on the device with non-metallic materials.

Eg, add the sensor, from one normal lighting to automatic sensor lamp.

Attention

·The installing personnel should be electrician or with correlation experience;
·Be sure not to install the unit in the place where sun shine, current and temperature change obviously, for example air conditioning, air warm;
·Do not choose the sway object as installing base;
·In front of sense range there should be no obstruction or moving object to influent its detecting.

Remark

1. Keep the sensor face to the area where human usually move.
2. Keep the sensor face to the position of the ambient light in order to get much more exact illuminance   setting.
3. If detect the signal again within the time setting, the time setting will be over lied.

Some problem and solved way

1、**The load do not work:**
　　a: Please check if the connection-wiring of power and load is correct;
　　b: Please check if the load is good ;
　　c: Please check if the working light set correspond to light-control.

2、**The sensitivity is poor:**
　　a: Please check if there has hinder in front of the detection window to effect to receive the signal;
　　b: Please check if the ambient temperature is too high;
　　c: Please check if the induction signal source is in the detection fields;
　　d: Please check if the installation height corresponds to the height showed in the instruction;
　　e: Please check if the moving orientation is correct.

3、**The sensor can not shut off the load automatically:**
　　a: Please check if there is continual signal in the detection field;
　　b: Please check if the time setting is the longest;
　　c: Please check if the power correspond to the instruction;
　　d: Please check if the temperature near the sensor change obviously, such as air condition or central heating etc.