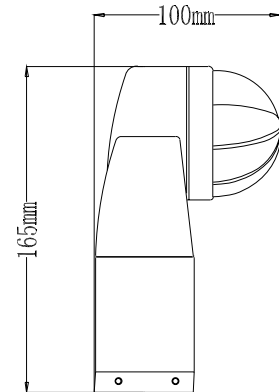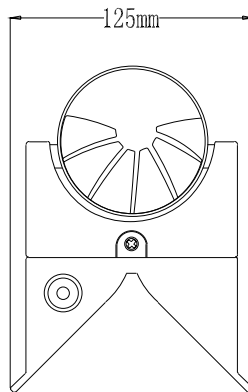# PD-PIR106 Infrared Motion Sensor Instruction

Summary

The product adopts 2 high sensitivity detectors, integrated circuit and SMT technology; the 2 detectors compose its wide detection range; it utilizes infrared energy from human body as its controlling signal source,when one enters the detection range, it can start controlled load at once,it can identify day and night automatically, it is easy to install and use field is wide. It gathers automatism, convenience, safety, energy saving and practicality.

Specifications

Power source: 220-240V/AC ☐
           100-130V/AC ☐
Power frequency: 50/60Hz
Rated load: 3000W Max.tungsten(220-240V/AC)
        300W Max.fluorescent(220-240V/AC)
        1200W Max.tungsten (100-130V/AC)
        150W Max.fluorescent(220-240V/AC)
Time setting: Min: 10sec (approximately)
        Max:6min~9min (adjustable)

Detection range:15m max(22℃) (adjustable)
Detection angle:220°
Light-control: <15LUX~daylight (adjustable)
Power consumption: 0.45W(working)
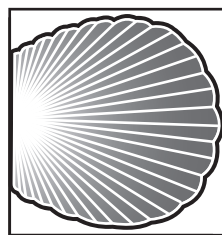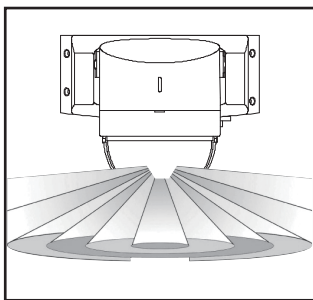   0.1W(static)
Installation height:1.8m~2.5m
Relative humidity:<93%RH
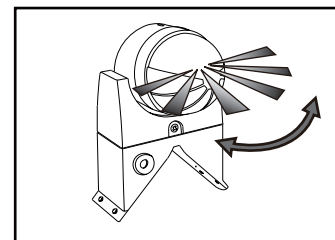Detection moving speed:0.6~1.5m/s
Working temperature:-10~+40℃

Sensor information

15m
Correct moving orientation

220°
Detection angle

Function

➢ Identify day and night automatically: user can adjust it's working light. When it is adjusted to sun (max), it works day and night; when to moon (min), it only works in the ambient light below 20LUX;
➢ Detection range is adjustable: by adjusting sensitivity you can set the distance according to installation position and the detection range you need, the sensitivity has great connection with moving direction;
➢ Time setting is added continually: when it receives the second induction signal again after the first induction, it will compute time-delay after the second induction;

- Time setting is adjustable: the time-delay can be adjusted by yourself according to your require, the product's shortest time set is about 10sec, the longest is 6min~9min;
- Power indication and sensing indication: when power is on, the LED is green, when sensing, the LED is orange;
- Provide lens cover: when need not sense certain range, you can install lens cover to block the range.

Installation (like the diagram1)

1、Before installing switch off power;
2、Untighten the base screw, according to the connection wire figure connect the power wire and load wire into the connection line column in sensor, and then tighten up the screw;
3、Install the sensor on needed position with frontal move,sensitivity low cross move,sensitivity high dilatants and screws.

Connection figure
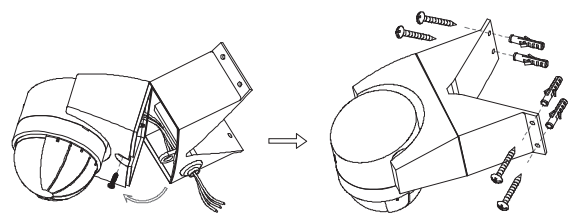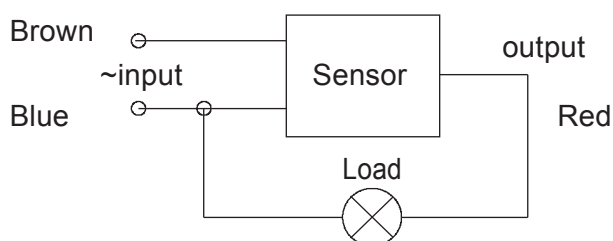
(diagram1)

Test

- Turn Lux knob anti-clockwise to the max (☼); Time knob anti-clockwise to min(-) and the Sens knob clockwise to max(+);
- Switch on power, the LED is green and 40~50sec later the sensor is in stable working state;
- 5~10sec later after the load stop working, sense it, the load should work, the LED turn orange. And under no sense condition, the LED resume green, the load should stop working after about 10sec;
- If turn the Lux knob counterclockwise to min(☾) and test it in the ambient light beyond 20LUX,after the load stop working, sense it the load should not work; with an opaque object (for example towel, etc) cover the detection window, the load should work, under no sense condition,it is normal that the load stop working within about 10sec.
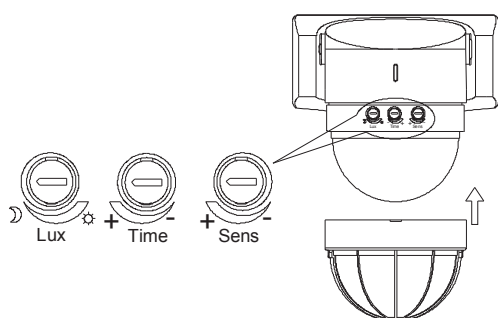
ATTENTION:When use this product, please adjust the sensitivity to an appropriate position you need, please do not adjust the sensitivity to maximum, to avoid the product does not work normally caused by wrong motion.Because the sensitivity is too high easily detect the wrong motion by wind blowing leaves & 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.

Attentions for installation

- Let electrician or experienced person install it;
- Don't regard unrest object as its installation basis;
- In front of the detection window there should be no obstruction or moving object to effect its detection;
- Don't install it where air current change obviously; for example: air condition and air heater.

Some problems and solutions

① **The load does not work:**
·Check whether the connection of the power and load is correct or not;
·Check whether the load is good or not;
·Check whether the working light you set accords with the ambient light or not.
② **The sensitivity is very low:**
·Please check whether in front of the detection window there is obstruction to effect the sensor receiving signal or not;
·Please check whether the ambient temperature is too high or not;
·Please check whether the sense signal is in the detection field or not;
·Please check whether the installation height is in the range of the instruction's require or not;
·Please check whether the moving orientation is correct or not.
③ **The sensor can't shut off the load automatically:**
·Whether there is continual sense signal in the detection field or not;
·Whether the time-delay is set to the max or not;
·Whether the power accords with the instruction's require or not;
·Whether the air temperature near the sensor change obviously, for example air condition, air heater etc.

⚠ Warning!

● **When used in different environments, please do not to adjust the sensitivity to the highest. Because that could easily lead to malfunction.**

● **Please confirm with prefessional installation.**

● **Please cut off power supply before installation and removal operations.**

● **Make sure that you have cut off the power for safety purposes.**

● **Improper operation caused losses, the manufacturer does not undertake any responsibility.**

We are committed to promoting the product quality and reliability, however, all the electronic components have certain probabilities to become ineffective, which will cause some troubles.When designing, we have paid attention to redundant designs and adopted safety quota to avoid any troubles.
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