INFRARED MOTION SENSOR

INSTRUCTION

WELCOME TO USING:

The product is the new saving-energy switch adopted the good sensitivity detector, integrated circuit. It gathers automatic, convenient safe saving-energy and practical functions. The wide detection fields are made up of up and down, left and right service field. It works by receiving human motion infrared rays. When human enter detection fields, it can start the load at once and identify automatically day and night; its installation is very convenient and its using is very wide.

SPECIFICATIONS:

Power source:220-240V~
Power frequency:50~60Hz
Ambient light:<5Lux/Daylight
Detection distance:6m max(<24℃)
Time-delay: 8sec ± 3sec
         7min ± 2min
Working temperature:-20~40℃
Working humidity:<93%RH
Rated load:1100W(220-240V~)
Installation height:2~4m
Power consumption:0.45W(static0.1W)
Detection motion speed:0.6~1.5m/s

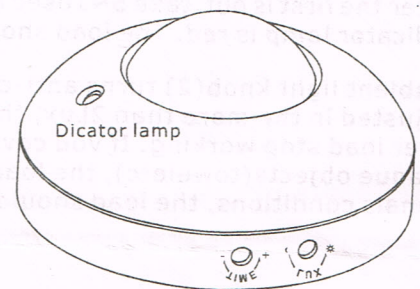Detection range:120° (side view)\360° (top view)

Dicator lamp

Fig:1

FUNCTION:

➤ Can identify day and night: The consumer can adjust ambient light when it worked. It can work at the day and night when it is adjusted on the (sun) position(max). It can work in the less than 5Lux ambient light when it is adjusted on the (moon) position (min).As for the adjustment pattern,please refer to the testing pattren;

➤ Power and detection in dictation: The in dicator lamp is green when you switch on the power and it is red when sensor receive the inductor signals. So it can show if the power.

➤ Time-Delay added continually: When it received the second induction signals after the first inductor, you should compute time once mor e on the rest of the first time delay basic.(set time).

➤ Time-Delay adjustment: It can be set according to the consumer desire. The minimum time is 8s±3s. The maximum is 6min±2min.
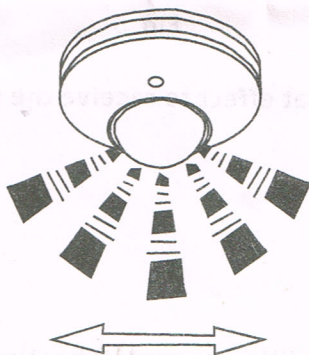
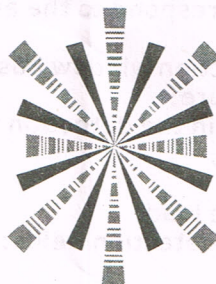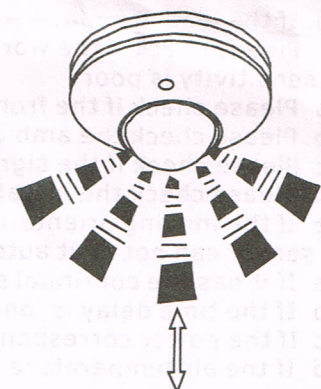Correct the moving orientation

Fig:2

Fig:3

Incorrect the moving orientation

Fig:4

INSTALLATION (see the following diagram)

➤ Switch off the power.
➤ Turn clockwise the bottom-stand and take off it. The power wire is crossed from the hole in the middle of bottom-stand.
➤ The bottom-stand is fixed on the on the selected position with inflated screw.
➤ The power and the load are connected with the connection-wire column of the sensor according to connection-wire diagram.
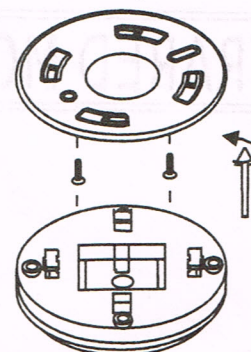➤ The sensor aimed at the month of bottom-stand and turned anti-clockwise.

Fig:5

CONNECTION-WIRE DIAGRAM (see the right figure)
TEST:

➤ The light-control knob(2) turn clockwise on the maximum (sun),the time-knob(1) turn clockwise on

➤ After switch on the power, the controlled load should not work and the indicator lamp is green, take 5~10sec, the load should work and the indicator lamp is red. Under the no inductor signals condition,the load should stop working within 5~30sec,the indicator lamp is still green.

➤ After the first is out, take 5~10sec to sense,the load should work and the indicator lamp is red. The load should stop working within 5~15sec.

Fig:6

➤ Ambient light knob(2) turns anti-clockwise on the minimum. If it is adjusted in the more than 2Lux, the inductor load should not work after load stop working. If you cover the detection window with the opaque objects(toweletc), the load word. Under the no inductor signals conditions, the load should stop working within 5~15sec.
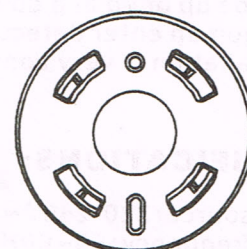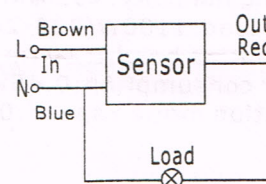
Brown — L In — Sensor — Out Red
No — Blue
Load

NOTES:

➤ Electrician or experienced human can install it;
➤ The unrest objects can not be regarded the installation basis-face;
➤ Front of the detection window has not hinder or unrest objects effecting detection.
➤ Avoid installing it near air temperature alteration zones for example: air condition, central heating, etc.
➤ Please do not open the case for your safety if you find the hitch after installation.If there are some difference between instruction and the function the product has,please give priority to product and sorry not to inform you additionally.

SOME PROBLEM AND SOLVED WAY

Dicator lamp

Fig:8

➤ The load do not work:
    a Check the power and the load;
    b If the load is good;
    c Please check if the working light correspond to the ambient light.
➤ The sensitivity is poor:
    a Please check if the front of the detection window has the hinder that effect to receive the signals.
    b Please check the ambient temperature;
    c Please check if the signals source is in the detection fields;
    d Please check the installation height;
    e If the moving orientation is right.
➤ The sensor can not shut automatically the load:
    a If it has the continual signals in the detection fields;
    b If the time delay is longest;
    c If the power correspond to the instruction;
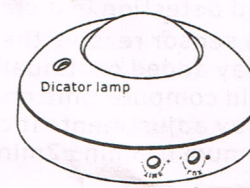   d If the air temperature change near the sensor, for example air condition or central heating etc.