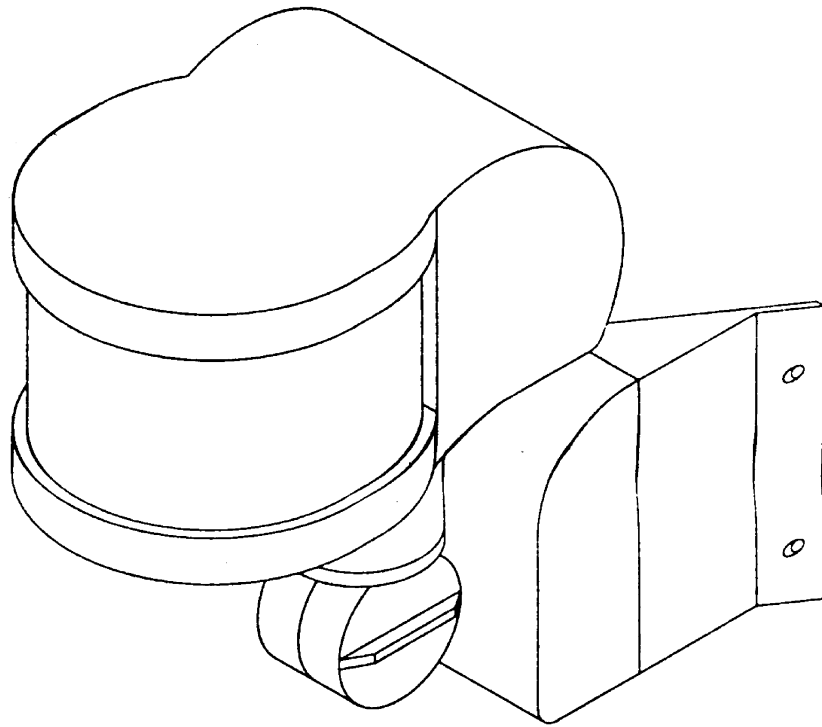


# DPS48B

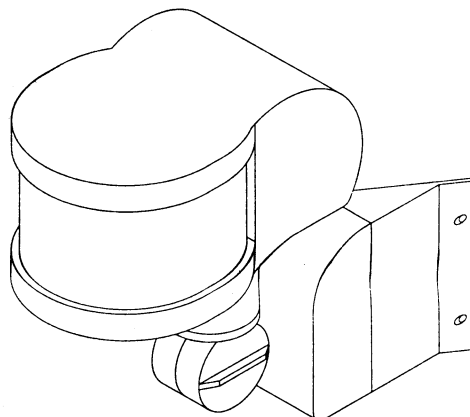
## *Infrared Motion Sensor*



## Instruction

## **WELCOME TO USE DPS48B INFRARED SENSOR SWITCH**

This product is a new energy-saving lighting Switch, it adopts two high sensitivity detectors, integrated circuit and SMT technology. it gathers the functions of automatism, convenience, safety, energy saving, etc. The wide detection is comprised by the right and left services field, which utilizes human infrared rays as signal control source to start the load when one enters the detection field. The sensors can identify day and night automatically. It is used widely and easy to install with the function of power show and detection show.



### **Technology reference**

Power source: 220V/AC~240V/AC   
110V/AC~240V/AC

Power frequency: 50~60Hz

Control light: <3LUX~sunshine light

Working time:min:8sec±3sec

Max:7min±2min

Detection range: 270°

Detection distance:11m max(<24°C)

Detection moving speed:0. 6~1.5m/s

Related load:

1200W(220V/AC~240V/AC)

800W(110V/AC~130V/AC)

Working temperature:-20~40°C

Working humidity: <93%RH

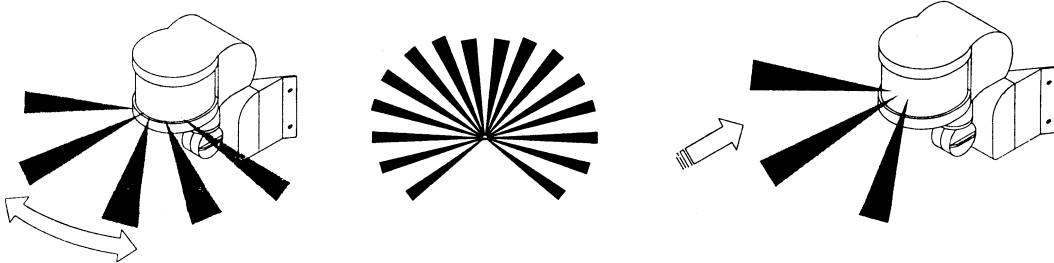
Power consumption:0.45W(static 0.1W)

Installation height: 1.5m~2.5m

### **Function**

- ◇ The detection distance can be adjusted: The detection distance is near if you press down the switch, otherwise it is far;
- ◇ Can identify day and night automatically: The working ambient light of DPS48B can be adjusted freely, when you turn it to the sunshine (largest), it can work day and night while it can only work in the circumstance less than 3LUX,if you turn it to moon (smallest). Please refer to the testing way about the adjustment
- ◇ Power and detection indication: The indicator lamp flash one time each 4sec after switching on the power, it can flash 2 times each 1sec after receiving the Induction signals. So it can show if the detector and power is normal;
- ◇ Time-delay is added continually: When it receives the second induction signals after the first, it will compute time once more on the basis of the first time-delay's rest basis.
- ◇ Time-delay is adjustable: The working time-delay can be adjusted according to the customer's desire, the minimums time is 8sec±3sec,the maximum is 7min±2min.

- ◇ Locking function: during working, sensor will keep load lighting when power is shut off for 2 seconds and then on. And shut off the power for 4 seconds and then on, sensor will resume automation.

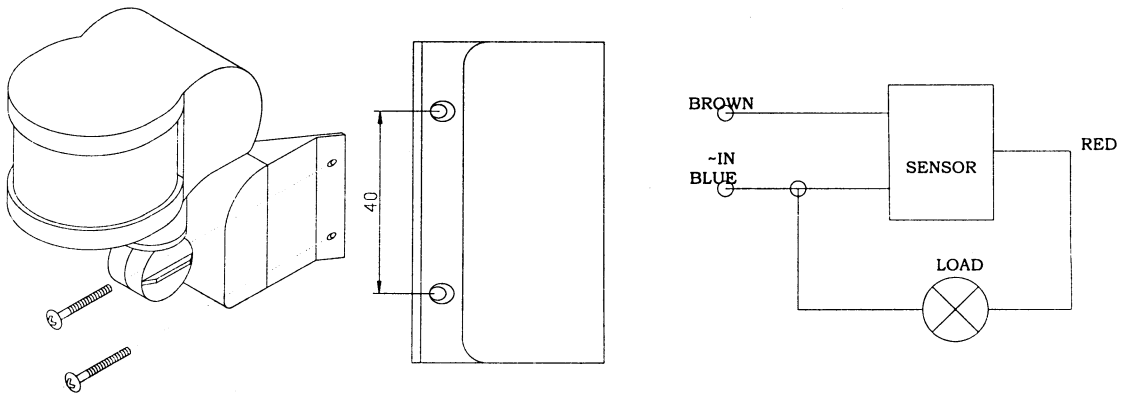


Correct moving orientation

incorrect moving orientation

### **Installation** (see the following diagram)

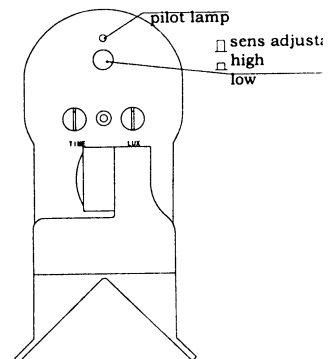
- △ switch off the power;
- △ Tight off the screw on the base-lid, pull on the wiring hole, connect the power and load wire into the base-lid;
- △ Fix the base-lid with the dilatibility screw on the selected installation position;
- △ connect the power and load wire into connection line column in the sensor according to the indication diagram;
- △ Fix the sensor on the base-lid, tighten the screw then you can electrify it to test;



Connection-wire diagram

### **Test**

- ◇ Turn the light control knob to the maximum anti-clockwise (LUX); turn the time knob to minimum clockwise.
- ◇ Switch on the power, the controlled load should not work, and the indicator lamp flash 1 time every 4sec; the load will work within 5~10sec and the indicator lamp flash 2 times each 1 sec. If there are



no induction signals, the load should stop working within 5~30sec, the indicator lamp should resume flashing 1 time each 4sec;

- ◇ After the first is out, make it sense again after 5-10sec, the load should work and the indicator lamp flash 2 times every 1sec, the load stop working within 5-15sec;
- ◇ Turn the LUX knob to the minimum anti-clockwise. If you test it in the ambient light more than 3LUX, the sensor load shouldn't work after load stop working; if you cover the detector window with opaque objects (towel etc), the load should work. Under no induction signals condition, it is normal the load stop working within 5-15sec.
- ◇ Attention: the second induction must be in 5sec later after the first induction and the load stop working, but when the load doesn't stop working, there needn't be interval to sense continually,

### **Note:**

- Electrician or experienced human can install it;
- The unrest objects can't be regarded as the installation basis-face;
- There should be no hinder or unrest objects effecting detection in front of the detection window;
- Avoid installing it near temperature alteration zones, for example: Air condition, central heating etc;
- For your safety, Please don't open the case personally if you find the hitch after installation.

### **SOME PROBLEM AND SOLVED WAY**

- **The load doesn't work:**
  - a. Check the power and the load;
  - b. If the indicator lamp flash 1 time every 4sec;
  - c. If the load is good;
  - d. If the indicator lamp flashing speed quicken after induction.
  - e. Please check if the working light set correspond to the ambient light
- **The sensitivity is poor:**
  - a. Please check if there is any hinder in front of the detection window that effect to receive the signals;
  - b. Please check the ambient temperature;
  - c. Please check if the signal source is in the detection fields;
  - d. Please check the installation height
  - e. If the moving orientation is correct.
- **The sensor can't shut off the load automatically:**
  - a. If there is continual signal in the detection field;
  - b. If the time-delay is set to the longest;
  - c. If the power correspond to the instruction required;
  - d. If the temperature change obviously near the sensor, (air conditioner, central heating etc).
  - e. To check it if it is in locked condition.