# DPS78 INFRARED MOTION SENSOR INSTRUCTION

## *SUMMARY*

This sensor adopts high sensitivity detector, IC and SMD technology; it utilizes the infrared energy from human body as its control signal source; when one enters the detection field, it can start the controlled load at once; it can identify day and night automatically; and it gathers automatism, convenience, safety, energy-saving and practicality.
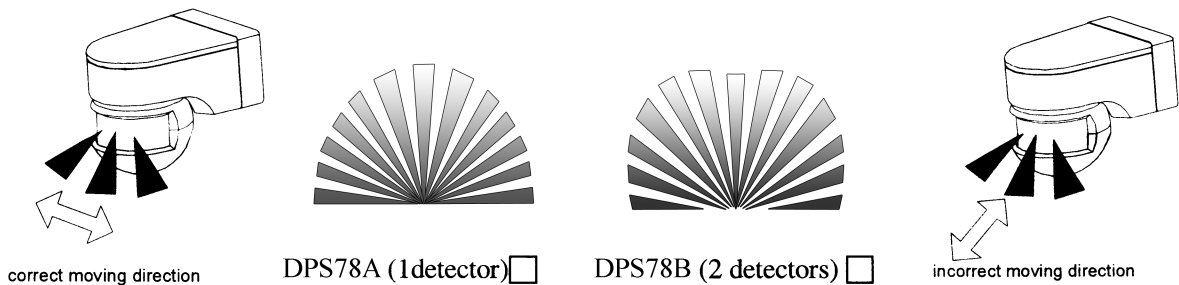
## *SPECIFICATION*

Power source: 220V/AC~240 V/AC ☐ Detection distance:12m max(<24℃)

100 V/AC~130 V/AC ☐ Detection angle: 180°

Power frequency: 50~60Hz    Light-control:<10LUX~daylight

Working humidity:-20~40℃    Relative humidity:<93%RH

Time-delay: min: 10sec    Installation height:0.5m~3.5m

max:7min±1min    Detection moving speed: 0.6~1.5m/s

Rated load: 1200W(220V/AC)    Power consumption:0.45W(working)

800W(100 V/AC)    0.1W(static)
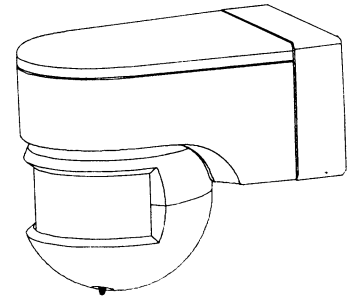
## *FUNCTION*

➢ Detection field: Detection range can be adjusted according to consumer's desire, but the moving orientation in the field has great relation with the sensitivity (like following diagram);



correct moving direction    DPS78A (1detector)☐    DPS78B (2 detectors)☐    incorrect moving direction

➢ Can identify day and night automatically: its working ambient light can be adjusted, when you turn it to daylight, it can work all day and night. If you turn it to night, it can only work in the circumstance less than 10LUX.

➢ Time-delay is added continually: When it receives the second induction signal after the first induction, it will recompute time from the second induction..

➢ Time-delay is adjustable: The working time-delay can be adjusted according to the customer's desire, the minimum time is 10sec,the maximum is 7min±1min;

➢ Sense indication.

## *INSTALLATION*

1. Switch off the power before installing;

2. Untighten the screw fixing bottom cover, pull on the wiring hole, put the power and load wire through the bottom cover;

3. Fix the bottom cover with the dilatability screw on the selected position;

4. Connect the power and load wire into connection column in the sensor according to the indication diagram;

5. Button the sensor on the bottom cover and tighten the screw, then you can electrify it and test.
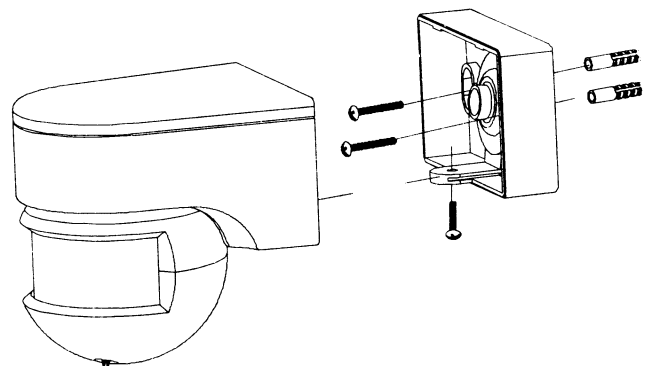
## CONNECTION-WIRE DIAGRAM



brown
~input
blue
sensor
output red
load
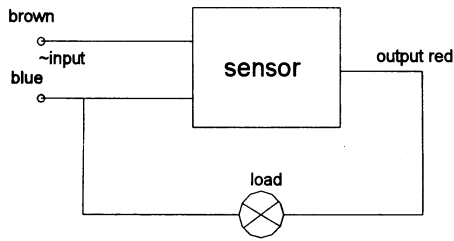
1. the blue, brown and red wire be from sensor;
2. Connect blue and brown with power;
3. Connect blue and red with load.

## TEST

- Turn the LUX knob counterclockwise to the end(sun); turn TIME knob to the end(-) counterclockwise.
- Switch on the power, after 60sec it enters the stable working state;
- 5-10sec later after the load stops working, sense it once, the load should work and the sense LED light, after 10sec the load stops working.
- In the daytime, if turn the LUX knob clockwise to end(moon), sense it, the sensor will not work. With opaque cover the sense-light window, sense it, the sensor will work;
- If above is normal, you can adjust the LUX and TIME knob according to your need then to use it;

Note: sense it again at least 1~2s later after the load stops working, the load will work again.
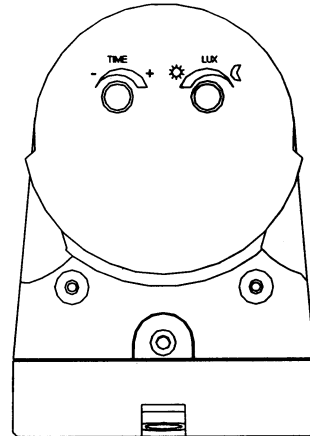
## ATTENTIONS FOR INSTALLATION

- Let electrician or experienced human install it;
- The unrest objects can't be regarded as the installation basis-face;
- There is no hinder or unrest objects effecting detection in front of the detection window;
- Avoid installing it where air temperature alter obviously, for example: Air condition, central heating etc;
- If you find hitch after installation, for your safety please don't open the case personally

## TROUBLESOME

① **The load doesn't work**
   a. Check if the connection of the power and the load is right;
   b. Check If the load is good;
   c. Check if the working light you set correspond to the ambient light

② **The sensitivity is poor**
   a. Check if there is obstruction in front of the detection window that effect it to receive signals;
   b. Check if the ambient temperature is too high;(the higher the ambient temperature is, the poorer the sensor's detection sensitivity is, when it is out of factory, the specification is the value when the ambient temperature is 24℃)
   c. Check if the induction signal source is in the detection field;
   d. Check if the installation height is in the instruction range.
   e. Check if the moving orientation is correct.

③ **The sensor can't shut off the load automatically**
   a. Check if there is continual induction signal like moving heating object(mobile etc.) and heat air current in the detection field.
   b. Check if the time-delay is set to max;
   c. Check if the power corresponds to the instruction required;
   d. Check if the temperature change obviously near the sensor, (for example air conditioner, central heating etc).