

# Product Details

*Automatic PIR infrared motion sensor*



**180° adjustment**

★ **2 colors**



**Wall Mount Motion Automatic PIR Infrared  
motion Sensor Switch for LED switch**

## Wall Mount Motion Automatic PIR Infrared motion Sensor

Switch for LED switch (BS039B)

### Description

This pir motion sensor switch is a new type of energy-saving lighting switch, it adopts high sensitivity detector, integrate circuit and SMT; It gathers automatic, convenient, safe, energy-saving, practical functions; It has wide detection range made up of up and down, left and right service field; It utilizes human motion infrared rays as control signal sources, when one enters the detection field, it will start the controlled load at once; It can identify day and night automatically; It is easy to install and its usage is wide; It has the function of power indication and detection indication.



### SPECIFICATION:

Power Source 110V/AC-240V/AC

Detection Range: 180 degree

Power Frequency: 50Hz

Working Temperature: -20~+40 centigrade

Ambient Light: 3-2000LUX (adjustable)

Working Humidity: <93%RH

Time-Delay: min:10sec±3sec max:7min±2min

Installation Height: 1.8m~2.5m

Power Consumption: 0.45W (work) 0.1W (static)

Rated Load: 1200W (incandescent lamp) 300W (energy-saving lamp)

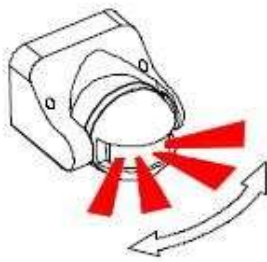
Detection Moving Speed: 0.6~1.5m/s

Detection Distance: 12m max (<24 centigrade)

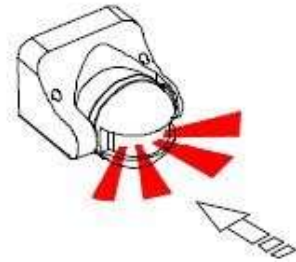
### FUNCTION:

1. Detection field: The wide detection range is made up of up and down, left and right (see the following diagram), the detection range could be adjusted according to your desire, but the moving orientation in detection field has great relation with the sensitivity.
2. Identify day and night automatically: The ambient light of ST09 could be adjusted according to your desire: when turn to SUN (max), it will work day and night, when turn it to MOON (min), it will only work in the ambient light less than 3LUX. As for adjustment, please refer to testing way.
3. Time-delay is added continually: When it receives the second induction signals after the first induction, it will compute time once more on the rest of the first time-delay basis (set time).

4. Time-delay is adjustable: It can be set according to your desire, the minimum is  $10\text{sec} \pm 3\text{sec}$ , the maximum is  $7\text{min} \pm 2\text{min}$ .

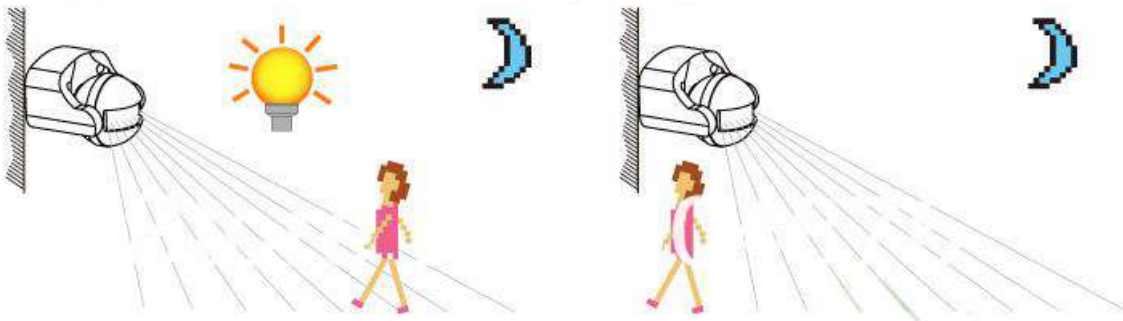


Good sensitivity

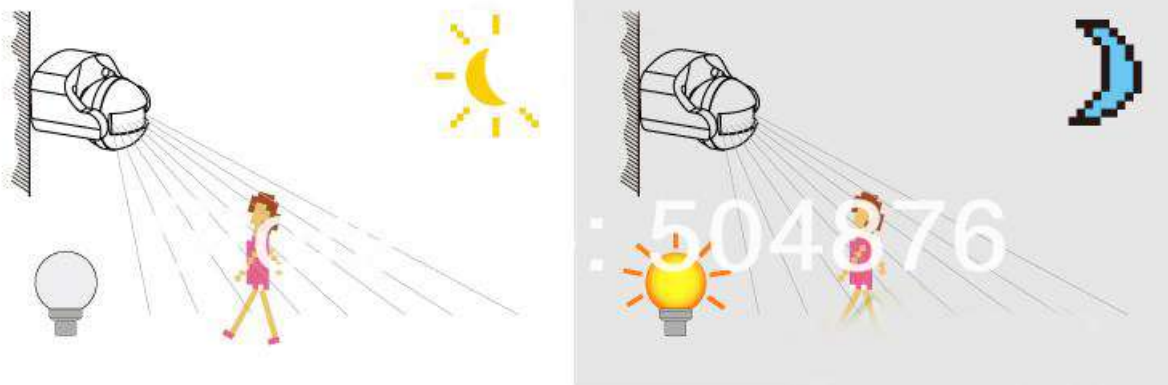


Poor sensitivity

### 1. People come switch turns on, people leave switch turns off

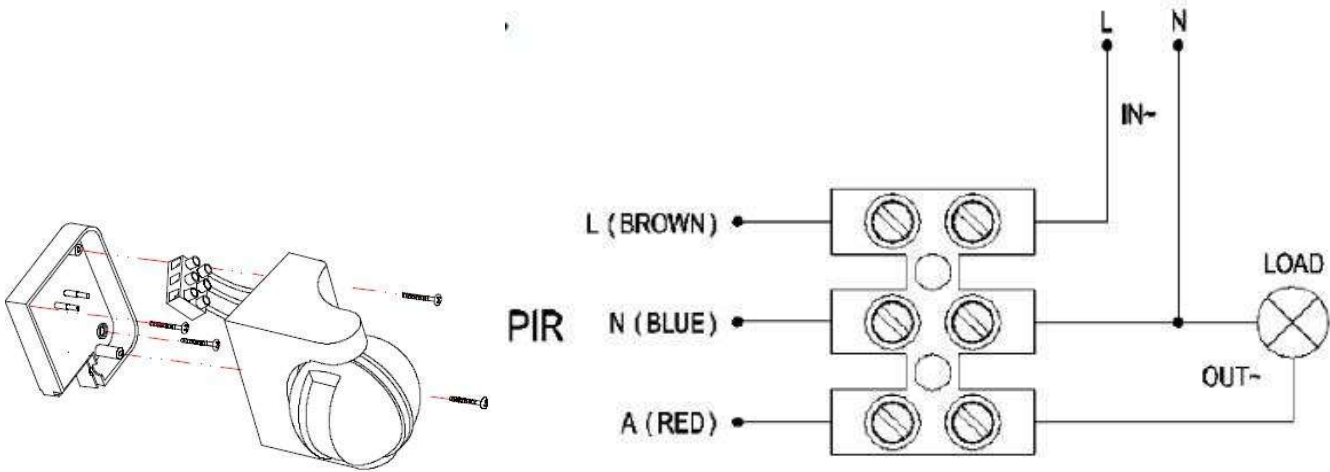


### 2. Intelligent light control, automatic identify day and light



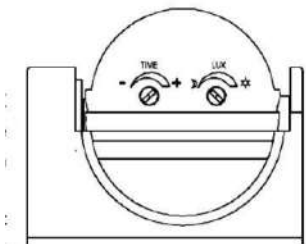
### INSTALLATION: (see the diagram)

1. Shut off power.
2. Loosen the screw on the bottom lid, open the wiring hole, pass the wire of power and load through the bottom lid.
3. Fix the bottom lid with inflated screw on the selected position.
4. Connect the power and load wire into connection-wire column according to the connecting figure.
5. Put the sensor on the bottom lid, twist the screw tightly then electrify it and test it.



**TEST:**

1. Turn time knob anti-clockwise to the minimum; turn the LUX knob clockwise to the maximum (SUN), Switch on power, the controlled load should not work, needing to preheat within 5-30sec.
2. The sensor will be sensed again in 5-10sec later when the first induction is finished, the load should work when received sensor signal and stop working within 7-13sec with no any sensor signal.
3. Turn LUX knob to minimum anti-clockwise, if you test it when the ambient light is more than 3LUX, the induction load would not work after the load stops working; the load should work if you cover the detection window with opaque object (towel etc), it would be regular the load stops to work within 7-13sec under no induction signal condition.



**Note: when testing in daylight, please turn LUX knob to  (SUN) position, otherwise the sensor lamp could not work!**

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