

ZINK

# Dion 180 Degree PIR Sensor

## ZN25151 LED Compatible



## User Instructions

### Welcome to use ST10A Infrared motion sensor!

The product adopts good sensitivity detector and integrated circuit. It gathers automatism, convenience, safety, saving-energy and practical functions. It utilizes the infrared energy from human as control-signal source and it can start the load at once when one enters detection field. It can identify day and night automatically. It is easy to install and used widely.

#### **SPECIFICATION:**


Power Source: 220-240V/AC

Power Frequency: 50Hz

Ambient Light: <3-2000LUX (adjustable)

Time Delay: Min.10sec ± 3sec

Max.7min ± 2min

Rated Load: Max.1200W   
300W LED

Detection Range: 180°

Detection Distance: 5-12m (<24°C) adjustable

Working Temperature: -20~+40°C

Working Humidity: <93%RH

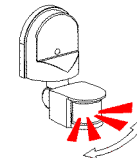
Power Consumption: approx 0.5W

Installation Height: 1.8-2.5m

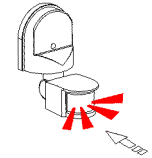
Detection Moving Speed: 0.6-1.5m/s

#### **FUNCTION :**

- Can identify day and night: The consumer can adjust working state in different ambient light. It can work in the daytime and at night when it is adjusted on the "sun" position (max). It can work in the ambient light less than 3LUX when it is adjusted on the "moon" position (min). As for the adjustment pattern, please refer to the testing pattern.
- SENS adjustable: It can be adjusted according to using location. The detection distance of low sensitivity could be only 5m and high sensitivity could be 12m which fits for large room.
- Time-Delay is added continually: When it receives the second induction signals within the first induction, it will restart to time from the moment.



Good sensitivity

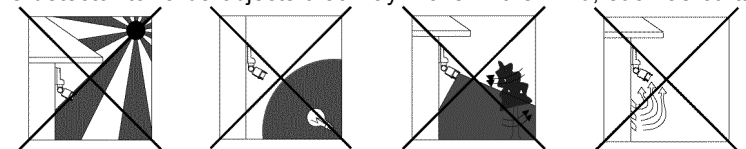


Poor sensitivity

#### **INSTALLATION ADVICE:**

**As the detector responds to changes in temperature, avoid the following situations:**

- Avoid pointing the detector towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioning units, light etc.
- Avoid pointing the detector towards objects that may move in the wind, such as curtains, tall plants etc.



## CONNECTION:



### WARNING

#### Warning. Danger of death through electric shock!

- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.

- Screw off the nail on the front cover and unload the front cover. (refer to figure1).
- Find the wire hole with gasket in the bottom and pass the power wire through hole.
- Fix the bottom on the selected position with the inflated screw (refer to figure 2).
- Connect the power wire into connection-wire column according to the connection-wire diagram.
- Install back the front cover, tighten the screw and switch on the power. Then you can test it.

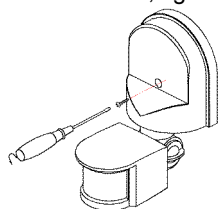


Figure1

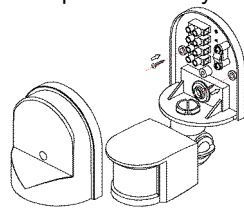
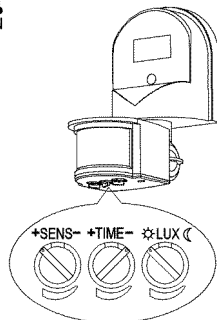
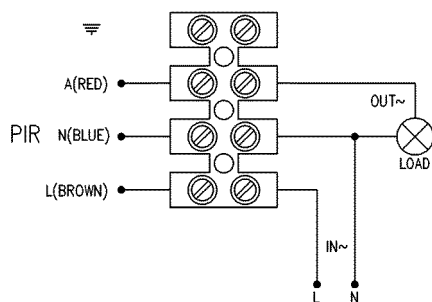


Figure2

## CONNECTION-WIRE DIAGRAM:

(See the right figure)



## TEST :

- Turn the SENS knob clockwise on the maximum(+). Turn the TIME knob anti-clockwise on the minimum(-). Turn the LUX knob clockwise on the maximum (sun).
- Switch on the power; the sensor and its connected lamp will have no signal at the beginning. After Warm-up 30sec, the sensor can start work. If the sensor receives the induction signal, the lamp will turn on. While there is no another induction signal any more,

the load should stop working within  $10\text{sec} \pm 3\text{sec}$  and the lamp would turn off.

- Turn LUX knob anti-clockwise on the minimum (moon). If the ambient light is more than 3LUX, the sensor would not work and the lamp stop working too. If you cover the detection window with the opaque objects (towel etc), the sensor would work. Under no induction signal condition, the sensor should stop working within  $10\text{sec} \pm 3\text{sec}$ .

**Note: when testing in daylight, please turn LUX knob to ☀ (SUN) position, otherwise the sensor lamp could not work! If the lamp is more than 60W, the distance between lamp and sensor should be 60cm at least.**

## SOME PROBLEM AND SOLVED WAY :

- The load do not work:
  - a. Please check if the connection-wiring of power and load is correct.
  - b. Please check if the load is good.
  - c. Please check if the working light sets correspond to ambient light.
- The sensitivity is poor:
  - a. Please check if there has any hindrance in front of the detection window to affect to receive the signal.
  - b. Please check if the ambient temperature is too high.
  - c. Please check if the induction signal source is in the detection fields.
  - d. Please check if the installation height corresponds to the height showed in the instruction.
  - e. Please check if the moving orientation is correct.
- The sensor can not shut off the load automatically:
  - a. Please check if there is continual signal in the detection field.
  - b. Please check if the time delay is the longest.
  - c. Please check if the power corresponds to the instruction.

## Helpline

If you receive this item with parts broken or missing, please telephone:

**0333-005-0077**

Please have ready your name, address, tel. no., product reference, where purchased and parts required. An answering service is in operation outside office hours and during busy periods.

**We regret that we are unable to give advice on internal house wiring.**

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