



Extended Range PIR Sensor ZN31786



User Instructions

Welcome to the user instructions for the extended range PIR sensor!

The product combines good sensitivity with an integrated circuit. It provides a hands free, convenient, safe, energy-saving device with practical functions. It utilizes the infrared energy emitted from humans as a control-signal source to activate the load once someone enters the detection field. It can identify day and night automatically. It is easy to install and is widely useable.

SPECIFICATION:

Power Source: 220-240V/AC

Power Frequency: 50/60Hz

Ambient Light: <3-2000LUX(adjustable)

Time Delay: Min10sec±3sec

Max30min±2min

Rated Load: Max.2000W

1000W



Detection Range: 360°

Detection Distance: 3-20m (<24°C) adjustable

Working Temperature: -20~+40°C

Working Humidity: <93%RH

Power Consumption: approx 0.5W

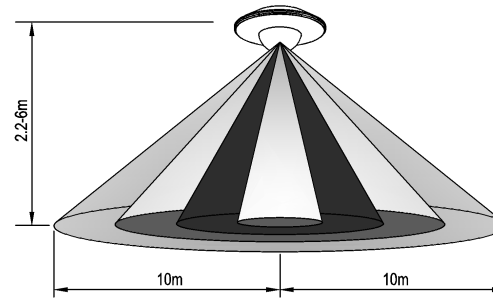
Installation Height: 2.2-6m

Detection Motion Speed: 0.6-1.5m/s

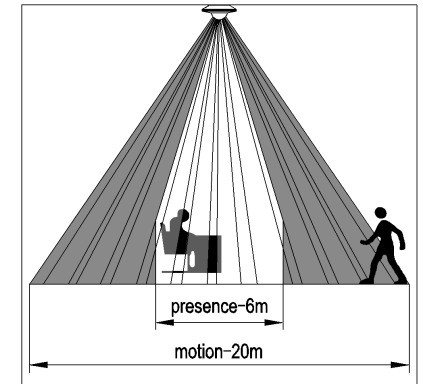
FUNCTION:

- 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 "3" 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 3m and high sensitivity could be 20m 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.

SENSOR INFORMATION:



Height of installation: 2.2-6m

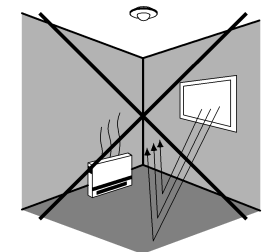
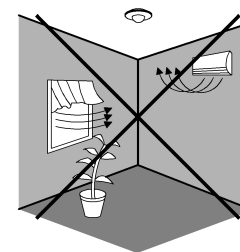
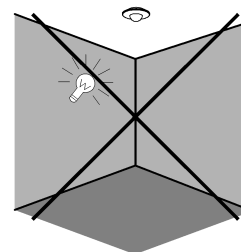


Detection Distance: max.20m

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:

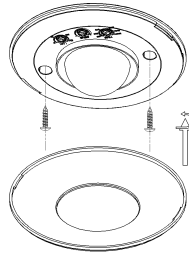


WARNING

Warning. Danger of death through electric shock!

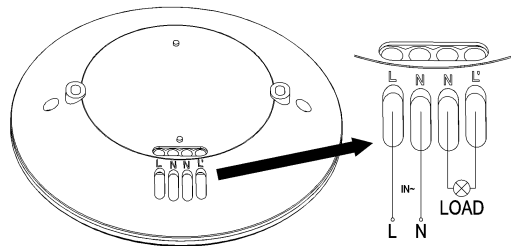
- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.

- Please move the upper cover with anti-clockwise whirl as per the diagram on the right.
- Connect the power and the load according to the connection-wire diagram.
- Fix the bottom on the selected position with the inflated screw.
- Install back the upper cover on the sensor, then you could switch on the power and test it.



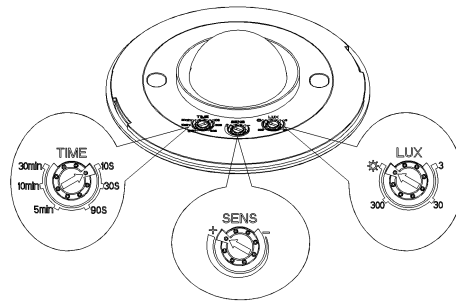
CONNECTION-WIRE DIAGRAM:

(See the right figure)



TEST:

- Turn the LUX knob clockwise on the maximum (sun). Turn the TIME knob anti-clockwise on the minimum (10s). Turn the SENS knob clockwise on the maximum (+).
- 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 (3). If the ambient light is more than 3LUX, the sensor would not work and the lamp stop working too. If the ambient light is less than 3LUX (darkness), 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!

TROUBLESHOOTING: PROBLEMS AND SOLUTIONS:

- The load does not work:
 - a. Please check if the connection of power source and load is correct.
 - b. Please check if the load is good.
 - c. Please check if the settings of working light correspond to ambient light.
- The sensitivity is poor:
 - a. Please check if there is any hindrance in front of the detector to affect it to receive the signals.
 - b. Please check if the ambient temperature is too high.
 - c. Please check if the induction signal source is in the detection field.
 - d. Please check if the installation height corresponds to the height required 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 set to the maximum position
 - 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.

Cascade Holdings Ltd, Gorse Mill, Gorse Street, Chadderton, Oldham. OL9 9RJ