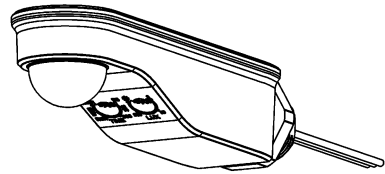
PIR5

Infrared Motion Sensor

Instructions



This luminaire mounted PIR sensor utilizes a good sensitivity detector and integrated circuit for energy-saving, safety and practical functionality. It utilizes infrared technology to detect movement of the human body and will switch on the load once someone enters the detection field. It has an inbuilt photocell to detect between day and nighttime operation.

SPECIFICATION:

Power Source: 220-240V/AC
Power Frequency: 50/60Hz
Ambient Light: <3-2000LUX (adjustable)
Time Delay: Min.10sec±3sec
Max.30min±2min
Rated Load: Max.1200W
500W

Detection Range: 360°
Detection Distance: 10m max(<24℃)
Working Temperature: -20~+40℃
Working Humidity: <93%RH
Power Consumption: approx 0.5W
Installation Height: 2-6m
Detection Moving Speed: 0.6-1.5m/s

FUNCTION:

- Can identify day and night: The installer can adjust the switching point at different ambient light levels. It can operate in both day and night when the dial is set to the “sun” position (max). It can work at night only when the dial is set towards the “3” position (min). As for the adjustment pattern, please refer to the testing pattern.
- Time-Delay is extended continually: During periods of continued occupancy, the sensor will restart the time delay with each detection of movement.

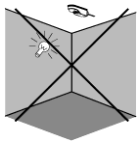

Good sensitivity

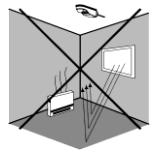

Poor sensitivity

INSTALLATION ADVICE:

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

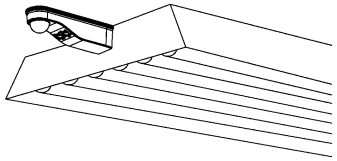
- Avoid pointing the detector towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioning units, lights etc.
- Avoid pointing the detector towards objects that may move in the wind, such as curtains, tall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



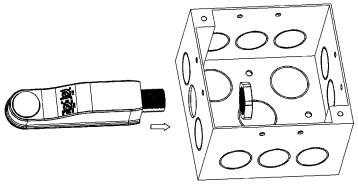


INSTALLATION: (see the diagram)

- Switch off the power.
- Connecting the power and the load to sensor as per the wiring diagram.
- Switch on the power and test it



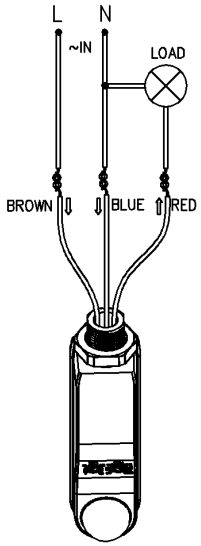
Fixture



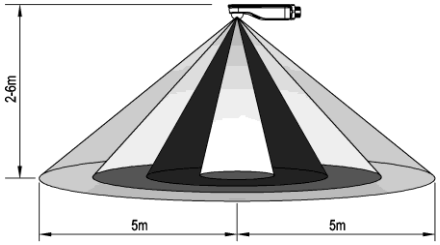
Junction box

WIRING DIAGRAM:

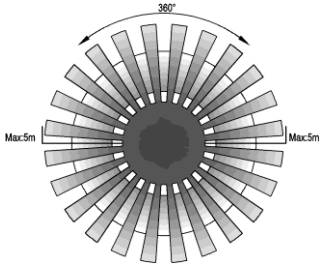
(See the right image)



SENSOR INFORMATION:



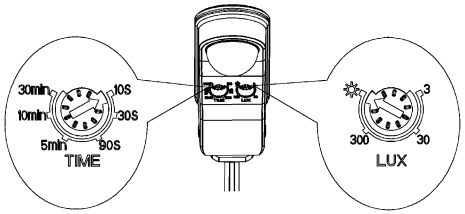
Height of installation: 2-6m



Detection Area: Max.10m

TEST:

- Turn the TIME knob anti-clockwise to the minimum (10s). 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 a 30sec warm-up period, the sensor will be operational. If the sensor detects movement, the load will turn on. When there is no further movement detected, the load should switch off within 10sec±3sec.
- Turn LUX knob anti-clockwise on the minimum (3). If the ambient light is more than 3LUX, the sensor will switch the load off. If the ambient light is less than 3LUX (darkness), the sensor will switch on the load. With no occupancy detected, the sensor will stop working within 10sec± 3sec.

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

NOTES：

- It is recommended to only be installed by a competent person in line with the latest regulations.
- Should not be installed on uneven and/or vibrating surfaces.
- Avoid placing the sensor behind obstructions to the detection pattern.
- For your safety, please do not open the sensor housing.
- In order to avoid the unexpected damage of product, please ensure it is connected to a circuit fitted with a 6A protective device.

TROUBLESHOOTING:

- The load does not switch on:
  - a. Check the power and the load.
  - b. Check if the indicator light is visible during periods of detection? If yes, please check load.
  - c. If the indicator light is not on after sensing, please check the light level setting.
  - d. Please check if the if the sensor is receiving power.
- The sensitivity is poor:
  - a. Please check the sensor is not obstructed from detecting movement.
  - b. Please check if the movement is in the detection field.
  - c. Please check the installation height.
- The sensor does not turn off the load automatically:
  - a. If there are continual signals in the detection fields.
  - b. If the time delay is set to the longest duration.
  - c. If the wiring corresponds to the instruction.

advance
LED lighting solutions

Advance LED Lighting Solutions Ltd
Unit 4, Stretton Business Park 2, Brunel Drive, Burton Upon Trent, DE13 0BY
Tel: 01332 865777