MAJOR TECH

PIR32

360° PIR Sensor
(Flush Mount)
White

1 DETECTOR

MAJOR TECH eco friendly product

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360° PIR Sensor
(Flush Mount) White

Product Overview

Thank you for purchasing the PIR32 - 360° PIR Sensor

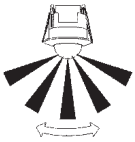
The PIR32 includes a sensitivity detector and an integrated circuit to save energy and offer practical functions. The PIR32 is designed to automatically turn lights on when motion and body heat is detected. The sensor uses the infrared energy from humans as a control-signal source; the load is activated as soon as one enters the detection field. It includes a day/night sensor to easily identify between day and night, and it is easy to install.

Specifications:

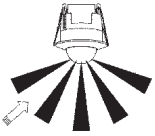
- Power source: 220-240V/AC
- Power Frequency: 50Hz
- Ambient Light: <3-2000LUX (adjustable)
- Time Delay: Min. 10sec±3sec / Max. 15min±2min
- Rated Load: 1200W 300W
- Detection Range: 360°
- Detection Distance: 6m max
- Installing Height: 2.2 - 4m
- Working Temperature: -20~+40℃
- Working Humidity: <93%RH
- Power Consumption: approx 0.5W
- Detection Motion Speed: 0.6-1.5m/s

Functions:

- **Can identify between day and night:**
  The sensor works during the day and at night when adjusted to the “sun” position (max). It can work in the ambient light less than 3LUX when it is adjusted to the “3” position (min). For the adjustment pattern, refer to the testing pattern below.
- **Time-Delay is added continually:**
  When the sensor receives a second induction signal within the first induction period, it will automatically reset to the set time parameter.



Good sensitivity



Poor sensitivity

Installation advice:

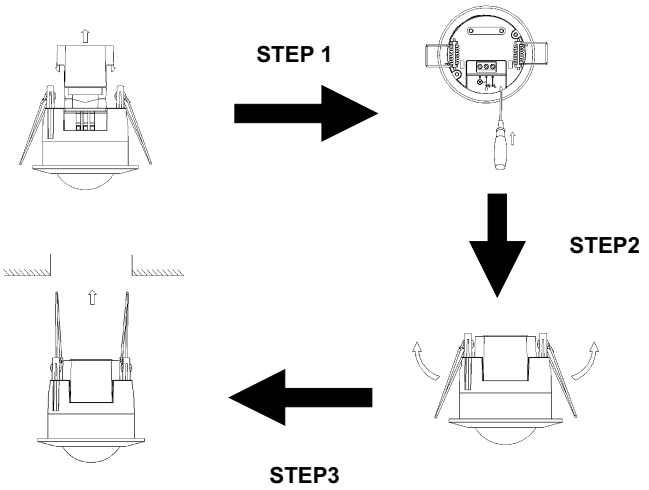
As the detector responds to changes in temperature, avoid the following situations:

- 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.

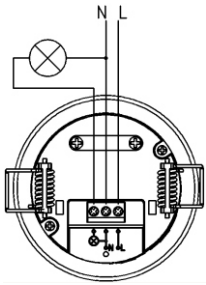
Installation:

- Switch off the power.
- Open the transparent vinyl cover which is at the bottom of the sensor.
- Loosen the screws in the connection terminal, and then connect the power and rated load to the connection terminal of the sensor according to the connection of the sketched map.
- Tighten the screws and replace the transparent vinyl cover.
- Fold the metal spring of the sensor upwards, until they are in “I” position with the sensor, and then place the sensor into the hole or installation box which is in the ceiling and has the same size as the sensor. When you release the spring, the sensor will be set in the installation position. After completing the installation, the sensor can be connected to the power and tested.

Diagram:

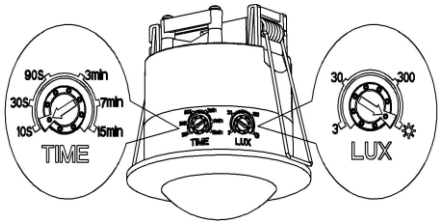


Connection-Wire Diagram:



Test:

- Turn the LUX knob clockwise on the minimum (10s). Turn the SENS knob clockwise on the maximum (sun).
- Switch on the power; the sensor and its connected lamp will have no signal at the beginning but will warm-up for 30 seconds.
- The sensor will then start to work .If the sensor receives the induction signal, the lamp will switch on. If no induction signal is detected, the load should stop working within 10sec±3sec and the lamp will switch off.



- Turn LUX knob anti-clockwise on the minimum - (3 position). If the ambient light is more than 3LUX, the sensor will not work and the lamp will stop working. If the ambient light is less than 3LUX (darkness), the sensor will work. If no induction signal is detected, the sensor should stop working within 10sec±3sec.
  Note: When testing in daylight, please turn LUX knob to☼(SUN) position, otherwise the sensor could not work!

Note:

- Must be installed by a suitably qualified installer.
- Disconnect power source before installation.
- Shield any adjacent live components.
- Ensure device cannot be switched on.
- Ensure the power supply is disconnected during installation.

Solutions to potential problems:

The load does not work:

a. Check if the connection of the power source and load is correct.
b. Check if the load is acceptable.
c. Check if the settings of the working light corresponds with the ambient light.

The sensitivity is poor:

a. Check if there is any hindrance in front of the detector that can affect it to receive the signals.
b. Check if the ambient temperature is too high.
c. Check if the induction signal source is in the detection field.
d. Check if the installation height corresponds with the height required in the instruction manual.
e. Check if the moving orientation is correct.

The sensor cannot shut off the load automatically:

a. Check if there is continual signal in the detection field.
b. Check if the time delay is set to the maximum position.
c. Check if the power corresponds to the instruction manual.

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