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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CE

ISO 9001-2008

MAJOR TECH

PIR45

360° PIR Sensor

(Long Range)
White

2 DETECTORS

MAJOR TECH eco friendly product

PIR45
360° PIR Sensor
(Long Range) White

Product Overview

Thank you for purchasing the PIR45 - 360° PIR Sensor

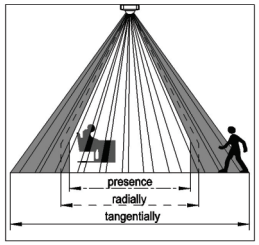
The PIR45 includes two sensitivity detectors and an integrated circuit to save energy and offer practical functions. The PIR45 has a wide detection field for up to 20m and is designed to automatically turn lights on when motion and body heat is detected. The sensor uses the infrared energy from humans 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.

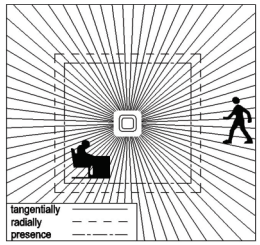
Specifications:

- Power source: 220-240V/AC
- Power Frequency: 50Hz
- Ambient Light: <3-2000LUX (adjustable)
- Time Delay: Min. 10sec ±3sec / Max. 30min ±2min
- Rated Load: 2000W☼/ 1000W⇩
- Detection Range: 360°
- Detection Distance: 20m max
- Working Temperature: -20~+40°C
- Working Humidity: <93%RH
- Installing Height: 4 - 10m
- 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,
- **Time–Delay is adjustable:**
  It can be set according to the consumer's requirements. The minimum time is 10sec - ±3sec. The maximum is 30min - ±2min.

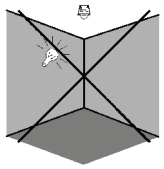


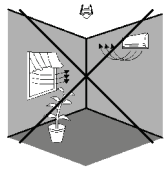


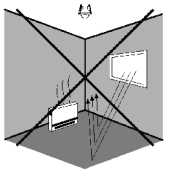
Installation Advice:

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:

- Remove the cover.
- Connect the power and the load into the connection-wire column of the sensor as shown in the connection-wire diagram below.
- Fix the sensor in the correct position using the inflated screws as shown in figure (A).
- Replace the cover and test the unit.

Connection-Wire Diagram:

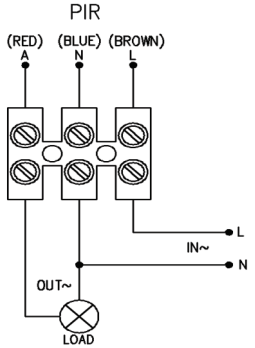
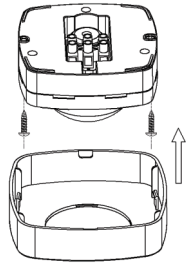
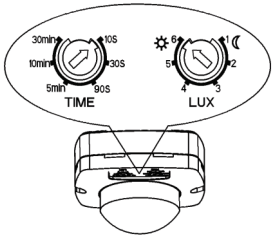


Figure (A)





Test:

- Turn the TIME knob anti-clockwise to (10s) min.
- Turn the LUX knob clockwise to (sun position).
- Switch on the power.
- The sensor and its connected lamp will have no signal at the beginning.
- Warm-up for 30 seconds, before the sensor will start to work .
- If the sensor receives the induction signal, the lamp will turn on. If there is no induction signal, the load should stop working within 10sec±3sec and the lamp will switch off.
- Turn the LUX knob anti-clockwise to the minimum - (3 position). If the ambient light is more than 3LUX, the sensor will not work and the lamp will stop working.
- If you cover the detection window with opaque objects (towel etc), the sensor will work. If there is no induction signal conditions, the sensor will stop working within 10sec±3sec.

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