MAJOR TECH

MS363

360° Microwave Sensor
(Flush Mount)
White

MAJOR TECH
eco friendly
product

MS363
360° Microwave Sensor
(Flash Mount) White

Product Overview

Thank you for purchasing the MS363 - 360° Microwave Sensor

The MS363 includes a sensitivity detector and an integrated circuit to save energy and offer practical functions. The MS363 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:

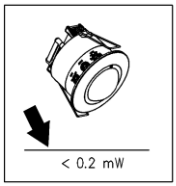
- Power source: 220-240V/AC
- Power Frequency: 50Hz
- Ambient Light: <3-2000LUX (adjustable)
- Time Delay: Min. 10sec±3sec / Max. 12min±1min
- Rated Load: 1200W / 300W
- Detection Range: 360°
- Detection Distance: 1-8m (radius), adjustable
- HF System: 5.8GHz CW radar, ISM band
- Transmission Power: <0.2mW
- Installation Height: 1.5-3.5m
- Power Consumption: approx 0.9W
- Detection Motion Speed: 0.6-1.5m/s

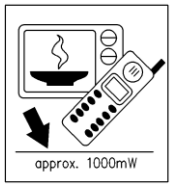
Functions:

- **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 on the following page.
- **SENS adjustable:**
  The sensor can be adjusted according to location. The detection distance of low sensitivity can be minimum 5m and on high sensitivity up to15m which will be suitable for a large room.
- **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.

Warning:

The high-frequency output of the HF sensor is <0.2MW- (5000th of the transmission power of a mobile phone or the output of a microwave oven). Keep away from children.

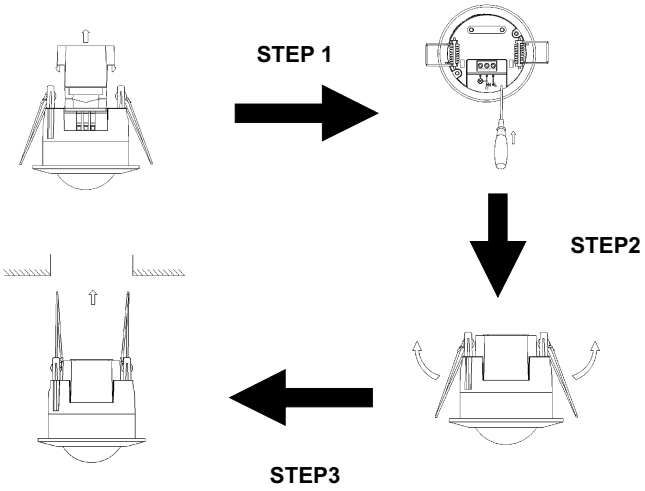




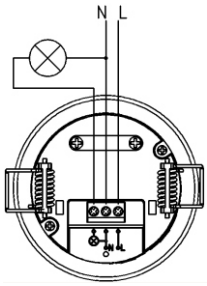
Installation:

- 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:

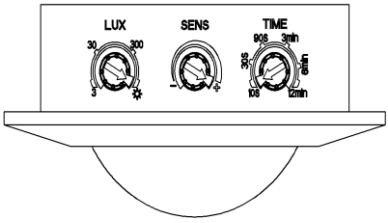


Connection-Wire Diagram:



Test:

- Turn the LUX knob clockwise on the maximum (sun). Turn the SENS knob clockwise on the maximum (+). Turn the TIME knob anti-clockwise on the minimum (10s). When you switch on the power, the light will
- be on at once. And 10sec ±3sec later the light will be switched off automatically. Then if the sensor receives another induction signal it will work normally.



- When the sensor receives the second induction signals within the first induction, it will restart timing from that moment.
- Turn LUX knob anti-clockwise on the minimum - (3 position). If the ambient light is less than 3LUX, the inductor load will work when it receives an induction signal.
  Note: When testing in daylight, please turn LUX knob to☼(SUN) position, otherwise the sensor will 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.

MAJOR TECH (PTY) LTD

T9 Industrial Village, Sam Green Road,
Tunney Ext. 9, Elandsfontein,
South Africa
P.O. Box 888, Isando 1600,
South Africa

Telephone: +27 11 872 5500
National Contact Number: 08 61 62 5678
Sales Facsimile: +27 11 822 2806
Admin Facsimile: +27 11 822 1411
E-mail: sales@major-tech.com

www.major-tech.com

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