MAJOR TECH

MS362

360° / 180° Outdoor Microwave Sensor

White

IP45
Drip Proof

MAJOR TECH
eco friendly
product

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White

Product Overview

Thank you for purchasing the MS362 - 360° / 180° Outdoor Microwave Sensor

The MS362 includes a sensitivity detector and an integrated circuit to save energy and offer practical functions. The MS362 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. Detection is possible through doors, panes of glass or thin walls. The MS362 is IP44 and can be used outdoor.

Specifications:

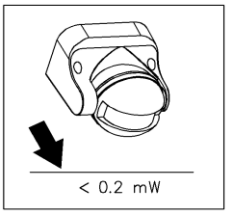
- Power source: 220-240V/AC
- Power Frequency: 50Hz
- Ambient Light: <3-2000LUX (adjustable)
- Time Delay: Min. 10sec ± 3sec / Max. 12min ± 1min
- Rated Load: 1200W ☼ 300W ☾
- Detection Range: 360° / 180°
- Detection Distance: 5-15m (adjustable)
- HF System: 5.8GHz CW radar, ISM band
- Transmission Power: <0.2mW
- Installing Height: 1.5 - 3.5m
- Power Consumption: approx 0.9W
- Detection Motion Speed: 0.6-1.5m/s

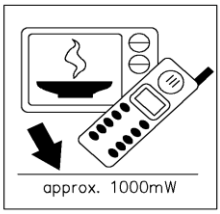
Functions:

- **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 below.
- **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:

- Shut the power off.
- Loosen the screw on the bottom lid and open the wiring hole, pass the wire of power and load through the bottom lid.
- Replace the bottom lid with inflated screws as shown in figure 1.
- Connect the power and load wire into the connection-wire column according to the connecting figure.
- Place the sensor on the bottom lid, twist the screw tightly, switch on and test.

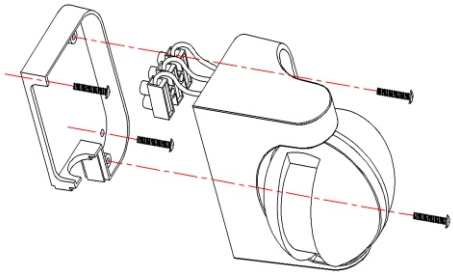
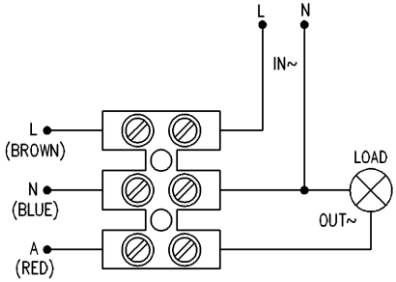


Figure 1

Connection-Wire Diagram:



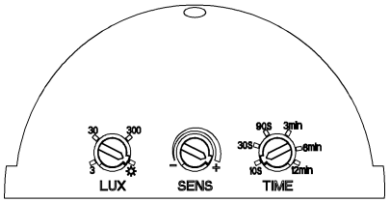


Figure 2

Test:

- Turn the LUX knob clockwise to the maximum - (sun position).
- Turn the TIME knob anti-clockwise to minimum - (10s).
- 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!

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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