

Manual Instructions (EN)

Dear customer,

Thank you for choosing Elrigs new microwave & photo sensor light bulb and thank you for the confidence you have shown in us. This sensor light bulb which you have purchased is a fine product that has been carefully developed, manufactured and tested. Please familiarize yourself with the instructions before installation, only the correct installation and debugging can ensure the product be long-term reliable and trouble-free in operation. We hope you will be satisfied with your new Elrigs sensor light bulb.

Installation

1. Turn off the light switch.
2. Screw the bulb in an E26 socket.
3. Turn on the switch.

Important: After you turn on the switch, the sensor light bulb will be in calibration phase, the light will turn on then turn off automatically after about 30 seconds (keep still when in this phase, if any movement is detected in these 30 seconds, the detection time will be extended). It is not necessary to actuate the light switch a second time after the calibration phase.



Safety warnings

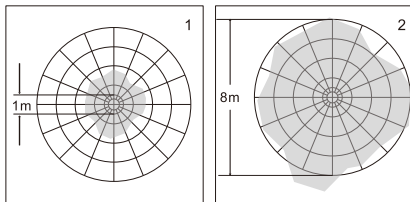
Keep the switch off while you screwing the bulb.

Operational Principle

This microwave sensor light is an active motion detector. The integrated HF sensor emits high-frequency electromagnetic waves (2.8 Ghz) and receives their reflected waves. The sensor detects the change in the reflected waves even the slightest motion within the detection range. The microprocessor then triggers the "turn-on light" command. Detection is possible through doors, windows or thin walls. Compared to the traditional infrared sensor light, the microwave sensor light possesses more larger reach, is not affected by temperature, works steady even in harsh weather conditions.

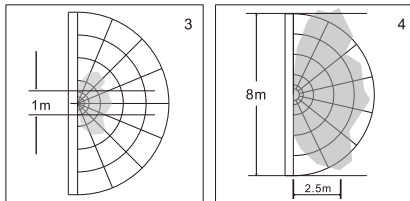
Detection range for ceiling installation

- 1) Minimum reach (1 m)
- 2) Maximum reach (8 m)



Detection range for wall installation

- 3) Minimum reach (1 m)
- 4) Maximum reach (8 m)



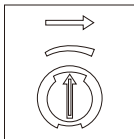
IMPORTANT:

When you walk towards the light, the motion sensor works best.

Tips:

The high-frequency output of HF sensor is 1mW- it's just equal to 1/1000 of mobile phone or microwave oven.

Setting



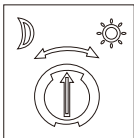
Reach Setting (sensitivity)

Factory setting: Maximum effective distance

Reach is the radius of the circular induction zone produced on the ground when the sensor light is mounted at the height of 2.5 m.

Regulator max. (clockwise) = maximum reach (approx. 8m)

Regulator min. (counterclockwise) = minimum reach (approx. 1m)



Twilight setting (response threshold)

Factory setting: daylight mode (approx. 3000 Lux)

The response threshold for the light can be steplessly adjusted between approximately 1-3000 Lux

Tips: cloudy room is about 5-50 Lux, the evening room is about 10 Lux

Regulator max. (clockwise) = maximum Lux (approx. 3000)

Regulator min. (counterclockwise) = minimum Lux (approx. 1)



Time Setting (switch-off delay)

Factory setting: shortest time (approx. 5 seconds)

The required lighting time can be steplessly adjusted from 5 seconds to 5 minutes. If any movement is detected before the end of the time. The timer will be restarted.

Regulator max. (clockwise) = longest time (approx. 5 min.)

Regulator min. (counterclockwise) = shortest time (approx. 5 sec.)

Note:

Each time the lamp is turned OFF, the new detecting for motion will be interrupted for about 1 second. The light will only switch ON in response to movement again. The shortest time setting is recommended when adjusting the sensing range and conducting functional tests.

Technical specifications

Size(L*B*H)	60 mm dia. x 117 mm
Material:	Aluminium(heat sink), PC (bulb shade, bulb base)
Mains voltage:	85-265V, 50Hz
Output:	7W, 700lm, 100lm/W
Color Temperature:	3000K/6000K(warm white/daylight)
LED lifespan:	30,000 hours
High Frequency system:	2450MHz $\pm$ 50MHz
Induction Angle:	360°with 160°aperture, also through glass, wood and thin walls
Induction Distance:	1 - 8 m adjustable
Twilight Setting:	1 - 3000 Lux adjustable
Time Setting:	5 - 300 Seconds adjustable
Power Consumption:	approx. 0.3W
Working Temperature:	-20°C ~ + 40°C

Troubleshooting

Trouble	Reasons	Solution
Sensor bulb without power	- Housing fuse damaged, not connected, wire breaking - Short circuit in power line - The power switch may be turned off	- Replace fuse, turn on the power switch, check wiring with electroprobe - Check connections - Turn on the power switch
Sensor bulb will not be turned ON	- The power switch is turned off - The ambient light is brighter than twilight setting - Socket damage	- Switch on - Change twilight setting (1-3000 Lux) - check socket with electroprobe
Sensor bulb will not be turned OFF	Continuously moving in the detection range	Keep all the object still
Sensor bulb turns ON without any identifiable movement	- Bulb mounting surface is subject to vibration (e.g. light fixture is vibrational) - Movement occurred, but not identified by the observing person (movement behind wall, movement of a small object in immediate lamp vicinity etc.) - Over-sensitive: too large induction range	- Keep all the object still - Check the surrounding environment - Reduce the reach setting
Sensor light does not turn ON despite movement	- Large metal interrupt the sensor (e.g. large metal cover the bulb PC shade) - Too small induction range	- Check the surrounding environment - Increase the reach setting

§18.212 Compliance information.

(a) Equipment authorized under Supplier's Declaration of Conformity shall include a compliance statement that contains the information set forth in § 2.1077 of this chapter and a statement identical or similar to the following: "This device complies with part 18 of the FCC Rules."

(b) The compliance information may be placed in the instruction manual, on a separate sheet, on the packaging, or electronically as permitted under §2.935 of this chapter. There is no specific format for this information.

§18.213 Information to the user.

Information on the following matters shall be provided to the user in the instruction manual or on the packaging if an instruction manual is not provided for any type of ISM equipment:

(a) The interference potential of the device or system

(b) Maintenance of the system

(c) Simple measures that can be taken by the user to correct interference.

(d) Manufacturers of RF lighting devices must provide an advisory statement, either on the product packaging or with other user documentation, similar to the following: This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Variations of this language are permitted provided all the points of the statement are addressed and may be presented in any legible font or text style.

Functional Warranty

This Elrigs product is carefully developed and manufactured, has been passed the valid functional and safety audit, and conducted sample inspection. Elrigs guarantees the product is perfect in performance and functionality. The warranty period is 24 months, calculated from the date from consumer purchase. Any product defects caused by material or production errors shall be born by ourselves and offer free replacement. Loss and damage to consumables, improper use and maintenance are not included in the warranty. Please contact us for any product related questions. Please send an email to elrigs@outlook.com, our customer service team will offer service for you in time