

Microwave sensor ceiling light HF-101

INSTRUCTION

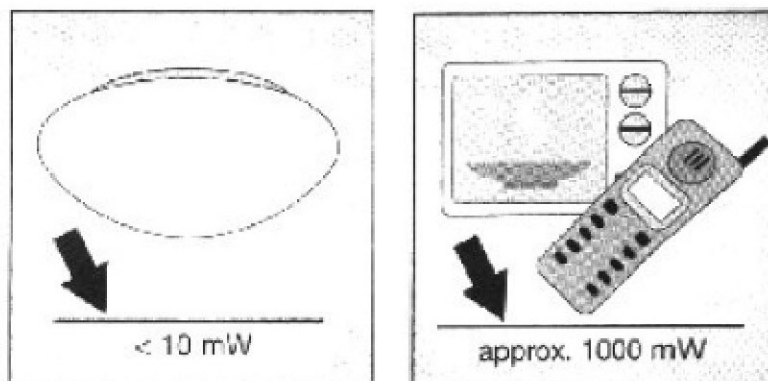
Welcome to using:

The sensor light is an active motion detector, the integrated HF sensor emits high-frequency electro-magnetic wave (5.8GHz) and receives their echo. The sensor detects the change in echo from even the slightest movement in the light's detection zone. A microprocessor then triggers the "switch light ON" command. Detection is possible through doors, panes of glass or thin walls.



IMPORTANT: persons or objects moving towards the light are detected best!

NOTE: the high-frequency output of the HF sensor is $<10\text{mW}$ - that is just one 100^{th} of the transmission power of a mobile phone or the output of a microwave oven.



Installation procedures

1. Take down the glass shade by turning it anti-clockwise(see fig.1)
2. Hold base against the wall and mark drill holes, paying attention to any existing wiring in the wall;
3. Drill the holes, insert wall plugs (6mm dia);
4. Put the power wire and load wire through the base holes;
5. Screw the base into place(see fig.2);
6. Connect the mains power supply and the load wire to the connection terminal according to connection-wire mark.
7. Adjust knob to setting;
8. Fit glass shade and turn it clockwise(see fig.3).

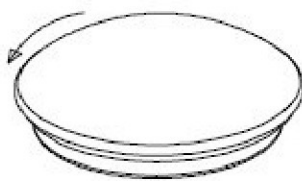


Fig.1

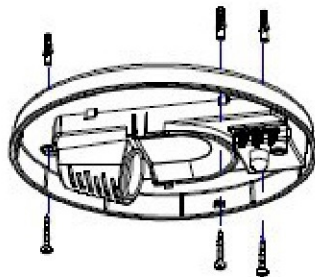


fig.2

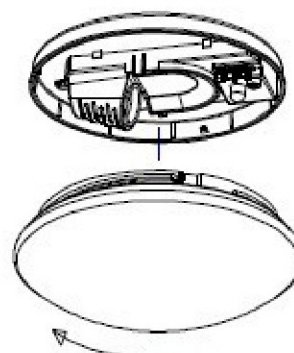


fig.3

Technical specifications

Wattage:60W/E27

power supply: 100-130 V ~ □ 220-240V ~ □ , 50/60Hz

Installation sit: indoors, wall/ceiling mounting

HF system: 5.8GHz CW radar, ISM band

transmission power: <10mW

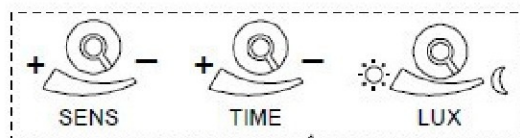
detection angle: 360° , 160°

reach:3-9m (radii.) , adjustable

time setting: 8sec to 12min

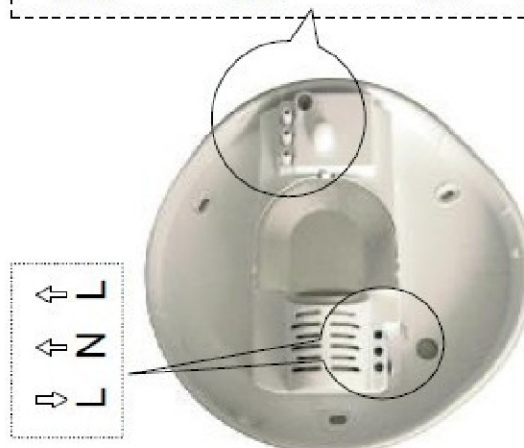
light control: 2~2000LUX

power consumption: approx.0.9W

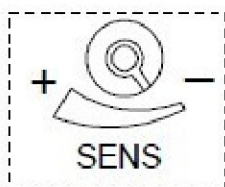


Connection illumination

connect N ↑ ,L ↑ with power;



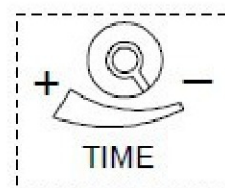
Reach setting (sensitivity)



Reach is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensorlight at a height of 2.5m, turn the reach control fully anticlockwise to select minimum reach (approx.3 m radii), and fully clockwise to select maximum reach (approx. 9m radii).

Time setting

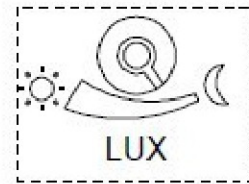
The light can be set to stay ON for any period of time between approx. 8sec(turn fully anticlockwise) and a maximum of 12min(turn fully clockwise). Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test.



NOTE: after the light switches OFF, it takes approx. 1sec before it is able to start detecting movement again. The light will only switch on in response to movement once this period has elapsed.

Light-control setting

The chosen light response threshold can be infinitely from approx. 2-2000lux. Turn it fully anti-clockwise to select dusk- to-dawn operation at about 2 lux. Turn it fully clockwise to select daylight operation at about 2000lux. The knob must be turned fully clockwise when adjusting the detection zone and performing the walk test in daylight



Troubleshooting

Malfunction	Cause	Remedy
Sensorlight will not switch ON	• wrong light-control setting selected	• Adjust setting
	• bulb faulty	• Change bulb
	• mains switch OFF	• Switch ON
Sensor light will not switch OFF	• continuous movement in the detection zone	• check zone setting
Sensorlight switches on without any identifiable movement	• light not mounted for detecting movement reliably	• securely mount enclosure
	• movement occurred, but not identified by the sensor (movement behind wall, movement of a small object in immediate lamp vicinity etc.)	• Check zone setting
Sensorlight does not switch ON despite movement	• rapid movements are being suppressed to minimize malfunctioning or the detection zone you have set is too small	• Check zone setting