

TROUBLESHOOTING

Malfunction	Cause	Remedy
The load will not work	Wrong light-control setting selected	Adjust setting
	Load faulty	Change load
	Mains is switched OFF	Switch ON
The load is always ON	Continuous movement in the detection zone	Check zone setting
The load is ON without any identifiable movement	The sensor not mounted for detecting movement reliably or ceiling vibration occurring	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
The load will not work despite movement	Rapid movements are being suppressed to minimise malfunctioning or the detection zone you have set is too small	Check zone setting

MANUFACTURERS WARRANTY

This product is guaranteed by SIMX Ltd for 36 Months from the date of purchase against faulty materials or workmanship which affects its designed ability to operate. During this period if the product has a defect of this nature it will be repaired or replaced free of charge by SIMX with the same item, or a similar one of higher specification. ON CONDITION THAT:

The buyer returns it to the seller from whom it was bought, freight paid.

The product has been bought by the user. ie a receipt/sales invoice is produced as proof of purchase.

The product has not been misused or handled carelessly, installed in anyway contrary to the installation instructions, used on a supply voltage other than that indicated in the product specifications, or installed in any unusually exposed or harsh environmental conditions.

This guarantee excludes liability for discolouration of paint or plastic, or any user serviceable parts. It does not confer any rights other than those expressly set out above and does not cover any claims for consequential loss or damage.

Our Goods come with guarantees that cannot be excluded under the New Zealand Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the Goods repaired or replaced if the Goods fail to be of acceptable quality and the failure does not amount to a major failure.



Distributed by: Simx Limited | Ph: 09 259 1660 | Technical Support Ph: 09 259 1662

Email: sales@simx.co.nz | Web: www.simx.co.nz

Simx reserves the right to alter technical specifications without prior warning

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INSTALLATION INSTRUCTIONS



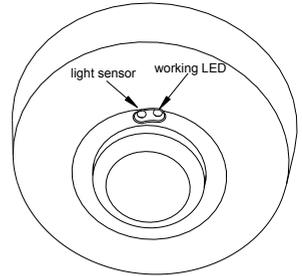
Model: LHT0182 Microwave Sensor

This sensor is an active motion detector, it emits high-frequency electro-magnetic waves, 5.8GHz and receives their echo.

The sensor detects the change in echo from even the slightest movement in the detection zone.

A microprocessor then triggers the “switch light ON” command. Detection is possible through doors, panes of glass or thin walls in most applications.

More reliable at distance than using IR or optical sensors, as there are no gaps in the detection zone.



! TECHNICAL SPECIFICATIONS

Power supply:	220-240 VAC
Power frequency:	50Hz
Installation:	Indoors, surface mounting
Hf system:	5.8Ghz CW radar ISM band
Transmission power:	<10mW
Max rated load:	1200W 5A resistive (incandescent) 200W 2.5A (fluorescent and CFL) 300W LED
Effective mounting height:	Up to 4.0 metres
Detection angle:	360° horizontal and 160° vertical (approximately)
Reach:	2 - 16m dia. Adjustable
Time setting:	8sec to 12min (approx)
Light control:	2~2000lux
Power consumption:	approx.0.9W
IP rating:	IP20
Temperature range:	-10°C ~ 55°C

! IMPORTANT

We strongly recommend that this sensor is installed by a suitably qualified and registered electrician.

Please read the entire Installation Manual and Calibration instructions before installing this product.

All electrical work must be carried out in accordance with local and national electrical codes as applicable.

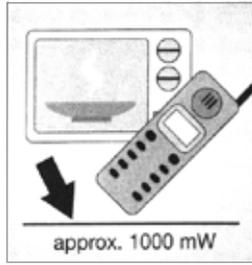
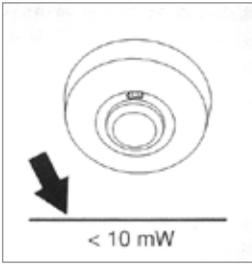
Always switch power off prior to installation.

A means of power isolation must be installed on the circuit for the purpose of safe access for any internal cleaning, recalibration or maintenance.

This appliance is not intended for installation or calibration by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning its use by a person responsible for their safety.

There are no user-serviceable parts in this product.

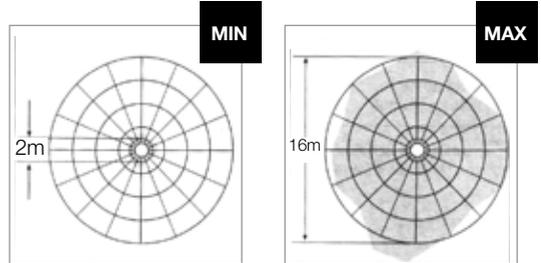
Any changes or modifications made or attempted to this product without the prior written approval of the manufacturer will void any and all stated warranties. This excludes normal calibration of the Reach, Time and Light control setting knobs as described in these installation instructions.



⚠ **NOTE:** The high-frequency output of this sensor is <10Mw - that is just one 50th of the transmission power of a mobile phone or the output of a microwave oven.

DETECTION ZONES FOR CEILING MOUNTING (AT 2.5 METRES)

1. Minimum reach 2m dia.
2. Maximum reach 16m dia.

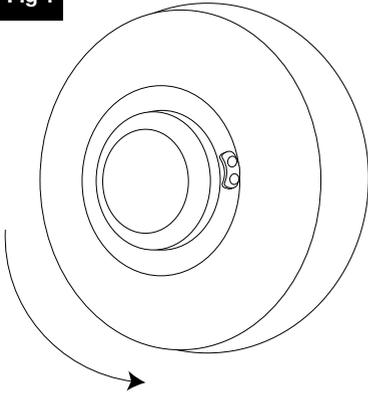
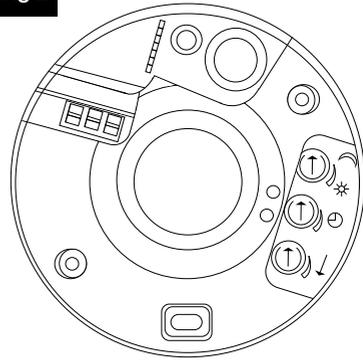


⚠ INSTALLATION PROCEDURES

1. Always isolate mains power prior to installation.
2. Remove cover by turning anti-clockwise (Fig 1).
3. Use the base to mark the drill holes on the mounting surface.
4. Drill holes and insert wall plugs if required.
5. Feed power cable and load cable through power entry grommet and securely affix base.
6. Connect the power wire and the load wire to the connection terminal according to the electrical connection. Do not exceed the max rated load.
7. Calibrate (Fig 2), then replace front cover.

Important:

1. This microwave sensor cannot detect through metal objects.
2. For reliable operation, avoid installing in areas with notable air turbulence or ceiling vibrations e.g. below mezzanine floors.

Fig 1**Fig 2**

! ELECTRICAL CONNECTION

- Connect N and L with power
- Connect N and L¹ to the load

CALIBRATION SETTINGS (FIG 2)

Reach setting (Sensitivity)

Reach is the term used to describe the diameter of the more or less circular detection zone produced on the ground after mounting the sensor at a height of 2.5m.

Turn the reach control fully anti-clockwise to select minimum reach (approx. 2m dia), and fully clockwise to select maximum reach (approx. 16m dia). Adjust according to location and site requirements.

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 adjusted 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 continuous daylight operation .

The knob must be turned fully clockwise when adjusting the detection zone and performing the walk test in daylight, then adjust setting according to site requirement.

