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## Instructions MINI SENSE

MINI SENSE is a energy-saving switch, it uses microwave sensor mold with high frequency electro-magnetic wave (5.8Ghz) as well as integrated circuits. It is a conglomerate of automatism, convenience, safety, energy saving and practical function.

MINI SENSE works with movement, every time it perceives a movement within its detection field it sends out a signal, initiating the load, automatically identifying if it's either day or night.

Very easy to install and with a wide range of applications. MINI SENSE can detect through doors, glass and thin walls.

### I. Specifications

Tension	220 -240V/AV
Frequency	50/60Hz
Ambient Light	<3 -2000Lux (adjustable)
HF System	5.8Ghz CW radar, ISM band
Time Delay	Min. 10sec ±3sec Max. 12min ± 1min
Rated Load	1200W 300W
Detection Range	360°/180°
Detection Distance	Wall 5-15m (adj.) Ceiling 1-8m (diameter, adj.)
Transmission Power	<0.2mW
Installation Height	Wall 1,5-3,5m (adj.) Ceiling 2-8m (diameter, adj.)
Power Consumption	Aprox. 0.9W
Motion Detection Speed	0.6-1.5m/s



### II. Functions

- Can identify day and night, It can work in daytime setting the hand to "sun" position and at night, setting the hand to "3" position making it possible to work with ambient light lower than 3 lux. The adjustment will be showed further ahead.
- Sensitivity can be adjusted according to the location. The detection distance can vary between 2m (lowest option) or 16m (furthest option).
- Time-Delay is added continuously after the second signal is received it will restart the timer from 0.
- Time-Delay can be adjustable according to your needs, going from 10sec+/-3sc to 12min+/-1min.

**TAKE NOTICE:** The High frequency outputted from the HF sensor is less than 0.2Mw which is just one "5000th" of the transmissions produced by a mobile phone or microwave oven.

### III. Installation

- Switch off the power.
- Fix the bottom on the desired position and put the screws through the side holes.
- Connect the wires as showed in the Wire connection diagram.
- Switch on the power and test it.

### IV. Test

- Turn the lux knob clockwise towards the sun position, then turn the sens knob clockwise towards the plus sign finally turn the Time knob counterclockwise towards the 10s mark.
- As soon as you turn on the power the light will be turned on immediately, which after 10sec+3s should turn off if you followed the previous steps.
- When the sensor receives the second signal during the duration of the first signal, it will restart the timer from 0.
- Turn Lux knob counterclockwise to 3, if the ambient light is lower than 3lux the light will turn on as soon as the signal is sent.

**TAKE NOTICE:** If you're running your teste in daylight please turn the knob towards the sun position otherwise the MINI SENSE will not work.

### V. Notes

- Make sure MINI SENSE is installed by a professional electrician.
- Do not install it on uneven and shaky surfaces.
- Make sure there's no object obstructing the field of detection.
- Avoid installations near metal and glass, because it can cause problems to the detection.
- If you find an itchiness after installing the sensor please don't open the case.
- In order to avoid damage to mini sense, please use a safety device of 6A current, such as a fuse during the installation process.



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## VI. Problems and Resolutions

- Won't turn on:
  - Check the power and load.
  - Check if the light on signal is turned on, is so please check the load.
- Poor Sensitivity:
  - Please check to see if there's any object in the detection field.
  - Please check the installation height.
- The light is always on:
  - Check if there's continuous signals in its detection field.
  - Check the TIME knob.



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