

# ENSA™

## Energy Saving Devices

### Intelligent LED Oyster Light

Model: LEDDL16WxKS



INSTRUCTION MANUAL

[www.ensalife.com](http://www.ensalife.com)



**Thanks for choosing the ENSA Intelligent LED Oyster Light.**

This product is an intelligent energy saving light with three integrated control sensors designed to boost energy efficiency. It includes an ambient light sensor, 5.8GHz microwave motion sensor and an on-timer delay controller. The LEDDL16WxKS features a microwave motion sensor that will activate the light when it detects movement inside the detection field. The light will only be in motion sensing mode if the measured lux level is below a set threshold. An adjustable timer then controls the time the light remains on after the last detected motion. As this light uses microwave motion detection, it features a wide detection range and unlike PIR sensors, it may detect occupants through doors, glass windows or thin walls.

**For installation by a qualified electrician only.**

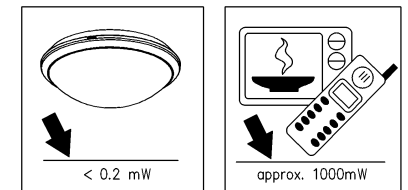
#### SPECIFICATIONS

<b>AC Input Voltage</b>	220 ~ 240VAC / 50Hz	<b>Motion Sensor Type</b>	5.8GHz CW ISM band
<b>Light Sensing</b>	<3 ~ 2000lx (adjust.)	<b>Motion Detect Range</b>	1 ~ 8m radius (adjust.)
<b>On-time Delay</b>	10s ~ 12min (adjust.)	<b>Motion Detect Shape</b>	360° circular
<b>Power Consumption</b>	16W / 0.9W (sensing)	<b>Motion Detect Speed</b>	0.6 ~ 1.5m/s
<b>Add. Switch. Capacity</b>	300W	<b>Rec. Install Height</b>	2 ~ 4m

#### FUNCTION:

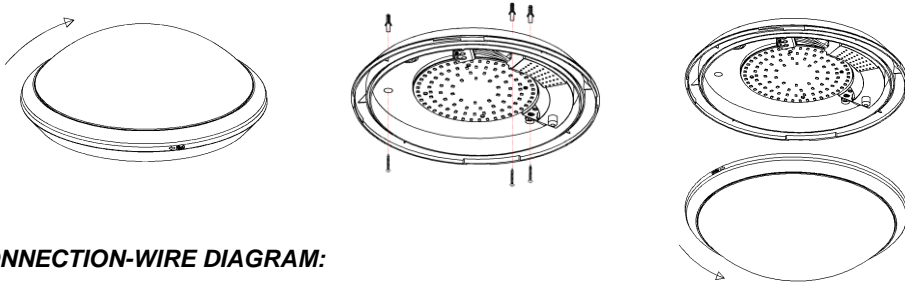
- Adjustable light sensor can be set to 3 to 2000lx via dials. Configure your own dusk to dawn settings to automatically control light activation.
- 360° adjustable microwave motion sensor can be set to detect movement in a 1m to 8m radius via dials. Tailor motion detection to your exact specifications.
- Time delay before load switch off is adjustable between 10 seconds and 12 minutes.
- Time delay before switch off is automatically reset when the sensor detects movement, even if the light is still on. This means that intermittent movement will keep the light on.
- Lux sensing is disabled while the load is on to prevent false trigger of the light sensor.

**NOTE: The RF output of the microwave sensor inside this product is less than 0.2mW - this equates to 1/5000<sup>th</sup> of the transmission power of a mobile phone or leakage output of a microwave oven.**

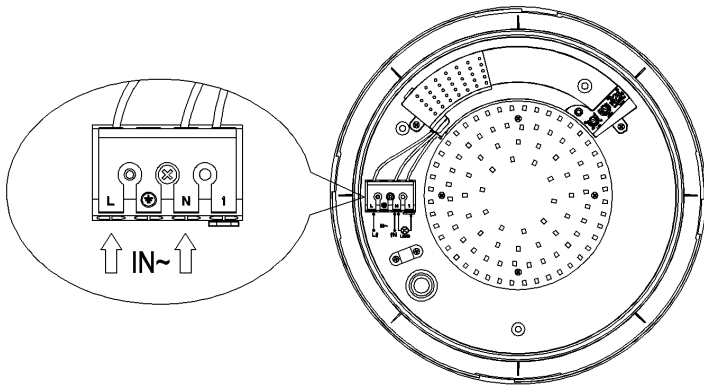


### INSTALLATION:

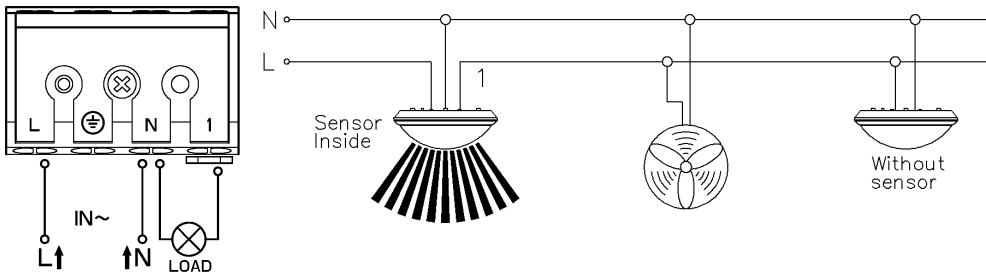
- Switch off the power.
- Turn the light cover clockwise to open the top half of the light.
- Run power through the holes in the base-plate of the light and connect to terminals as shown in the connection-wire diagram.
- Fix the base of the light to the ceiling via the base-plate screw holes.
- Reattach the top half of the light. Switch on the AC power and begin testing



### CONNECTION-WIRE DIAGRAM:

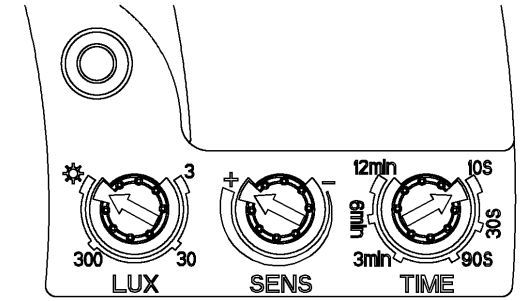


**Optional:** If connecting with electric fan or another lamp, see below:



### TEST:

- Turn the LUX knob clockwise on the maximum (sun). Turn the SENS knob clockwise on the maximum (+). Turn the TIME knob anti-clockwise minimum (10s).
- When you switch on the power, the light will turn on immediately. 10 seconds later the light should turn off automatically. If motion is detected after this, the light should turn on. This indicates normal operation.
- If the motion sensor detects movement while the light is still on, it will reset the on-timer delay, causing the light to remain on.
- Turn LUX knob anti-clockwise to the minimum setting (3). If ambient light levels are less than 3 lux (darkness), the light turn off and return to motion sensing mode.



### INSTALLATION NOTES:

- The product must only be installed and maintained by a licensed, qualified electrician.
- Install the product on an even-surfaced and secure location that does not sway or vibrate.
- Objects placed in front of the sensor may affect the sensing range.
- Avoid installation near metal or glass surfaces as this will affect reception range.
- For your safety, do not open case after installation (qualified electricians only).

### TROUBLESHOOTING:

- **The connected load does not turn on:**
  - a. Check the input power to the sensor. Ensure supplied voltage is between 220~240VAC.
- **Poor motion detection sensitivity:**
  - a. Ensure there are no objects between the sensor and the desired sensing location as this could reduce the range.
  - b. Ensure that there are no other devices using the 5.8GHz band in close proximity to the detector (eg: Wireless LAN, CCTV transmission equipment, etc.)
  - c. Ensure the installation height is 2 ~ 4m.
- **The sensor does not turn off the load:**
  - a. Check the TIME knob to ensure that the correct on-time delay has been selected.
  - b. Ensure that there are no other devices using the 5.8Ghz band in close proximity to the detector (e.g. Wireless LAN, CCTV transmission equipment, etc).