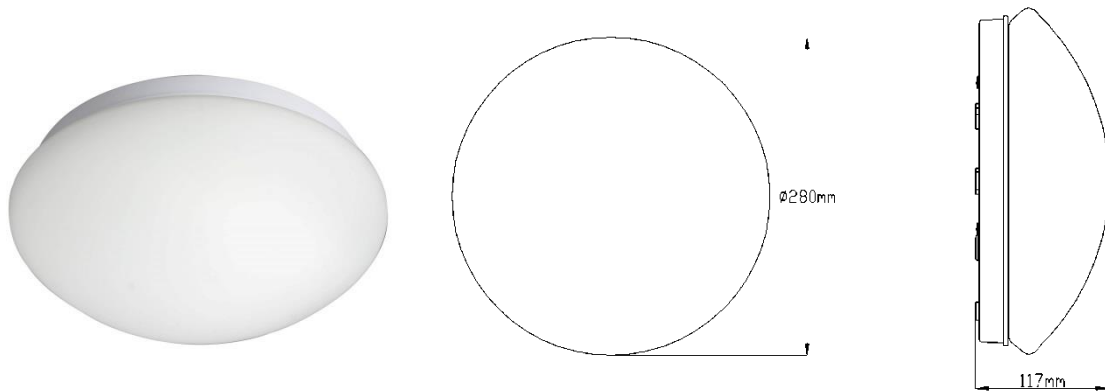


ENSA™

Energy Saving Devices

Intelligent LED Oyster Light with Battery Backup

Model: LEDDL10WxKSE



Thanks for choosing the ENSA Intelligent LED Oyster Light with Backup Battery.

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 LEDDL10WxKSE 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. The LEDDL10WxKSE also features a rechargeable NiMH backup battery for up to 3 hours of continuous use in the event of AC power loss.

For installation only by a qualified electrician.

SPECIFICATIONS			
AC Input Voltage	220 ~ 240VAC / 50Hz	Motion Detect Shape	360°
Light Sensing	<3 ~ 2000lx (adjust.)	Rec. Install Height	2 ~ 4m
On-time Delay	10s ~ 12min (adjust.)	Working Conditions	-20 ~ 40°C / 93%RH (max.)
Power Consumption	10W (AC) / 5W (DC battery)	Backup Battery	7.2V/1800mAH NiMH
Motion Sensor Type	5.8GHz CW radar ISM band	Battery Illumination	3 hours (continuous)
Motion Detect Range	1 ~ 8m radius (adjust.)	Recharge Time	15 hours

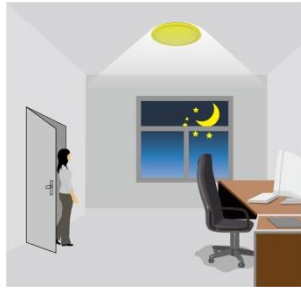
FUNCTION:

- Includes a NiMH backup battery, providing >120 minutes of continuous emergency illumination.
- **LUX knob:** adjust daylight sensing for acceptable ambient light levels; set from 3 ~ 2000 lux.
- **SENS knob:** adjust 360° motion sensing range for small & large rooms; set from 1 ~ 8m radius.
- **TIME knob:** adjust on-time delay after last detected motion; set for 10s ~ 12min. Time delay is reset if movement is detected, even if the light is already on.

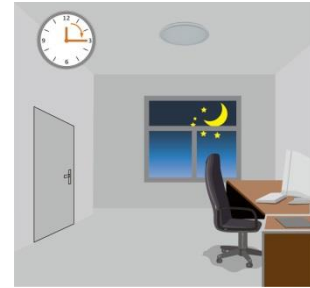
Connection: AC Mains Power



Sufficient ambient light, light does not switch on even with motion.

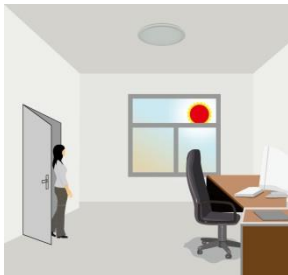


Insufficient ambient light, light turns on at 100% brightness.

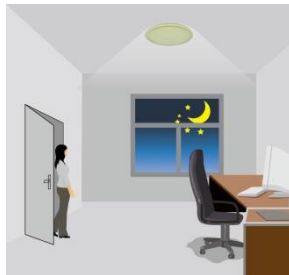


No motion & on-timer delay expires, so light switches off automatically.

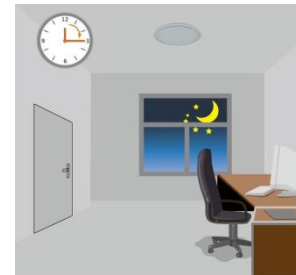
Connection: DC Backup Battery



Sufficient ambient light, light does not switch on even with motion.



Insufficient ambient light, light turns on at 50% brightness.



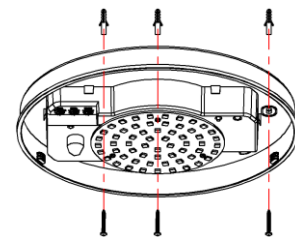
No motion & on-timer delay expires, so light switches off automatically.

NOTES BEFORE INSTALLATION:

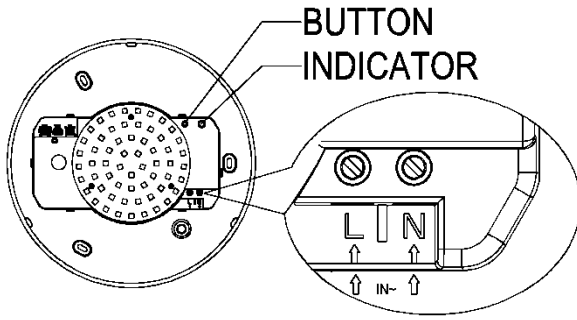
- This product must be installed & maintained only by a qualified, licensed electrician.
- Install the product on an even-surfaced and secure location that does not sway or vibrate.
- Objects placed in front of the sensor may affect the sensing range.
- Avoid installation near metal or glass surfaces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

INSTALLATION:

- Ensure all AC power is switched off.
- Turn the light cover anti-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 (see page 3).
- 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.



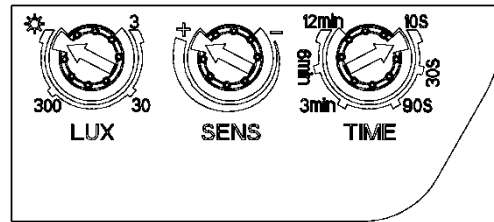
CONNECTION-WIRE DIAGRAM:



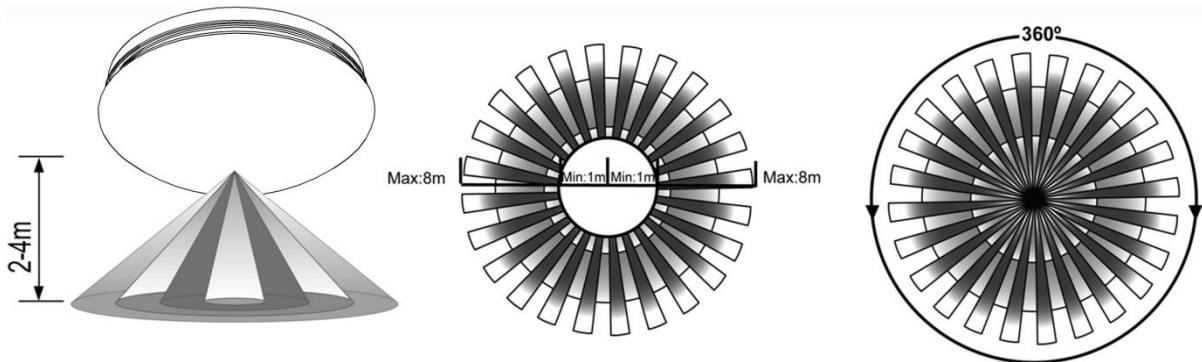
NOTE: You can check battery operation without connecting AC power by pressing **BUTTON**. When the light is connected to AC power, you will not need to press **BUTTON**. The **INDICATOR** flashes when the battery is charging

TEST:

- Turn the LUX knob clockwise to maximum setting (sun). Turn the SENS knob clockwise to maximum setting (+). Turn the TIME knob anti-clockwise to the minimum setting (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.
- If you cut off AC power, the sensor light will flash once, and then switch to DC battery power supply.



MOTION SENSOR INFORMATION:



Height of installation: 2-4m

Detection Distance: 1-8m (radius)

Detection Range: 360°

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).

SPECTROGRAM:

