

## PRODUCT INFORMATION

Packing list in	Quantity
Ceiling Mount Lamp LEDS 96PCS	1X
LED lamp	4X
$\phi 6$ Wall plug	4X
3x30 Screw	4X
$\phi 3$ Sealing ring	3X
4x12 Y type Stainless Screw	3X

Ideal for energy saving this a low power LED bulkhead lamp with built-in microwave sensor control. High level output with 96 high brightness LED lamps. Rated load is 15 Watt which is equivalent to a 150 Watt incandescent light source. The low power microwave radar detection uses only 0.2mW power which is harmless to humans. It has a range from 1 to 10M and is immune to temperature, humidity, noise, and pollution. It is ideal for ceiling installation and is simple to install. Suitable for halls, corridors, stairwells, bathrooms and similar locations. The sensor will detect human presence and switch the light on for a period which can be pre-selected via the internal timing control from 6 seconds to 12 minutes. It can also be adjusted to work for a range of up to 1-10 metres which can also be pre-selected using the dedicated internal control. There is a third internal adjustment that allows the unit to operate in variable lighting levels from 10 to 2000Lux - (night, day). The sensor will operate through glass, plastic and wood and should be adjusted at installation to achieve the required sensitivity.

**IP 44**

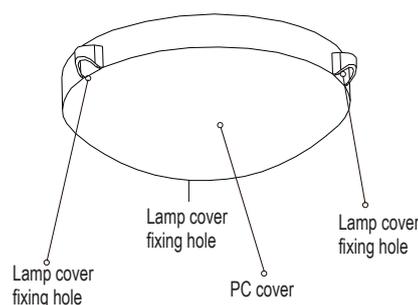
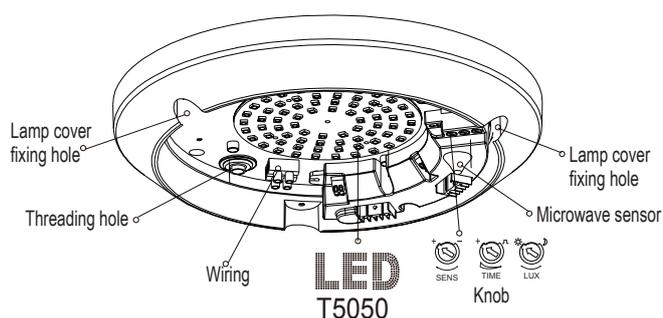


Uses tough, high quality PC diffuser, resistant to fracture and to ultraviolet light to limit discolouring.



LED lamps are 80% more efficient than incandescent bulbs and 50% more efficient than fluorescent bulbs

## PARTS

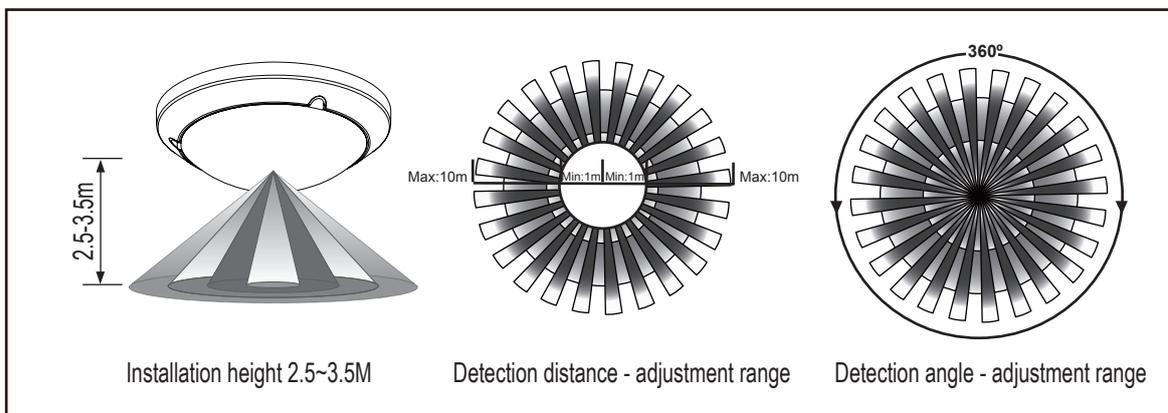


## SPECIFICATIONS

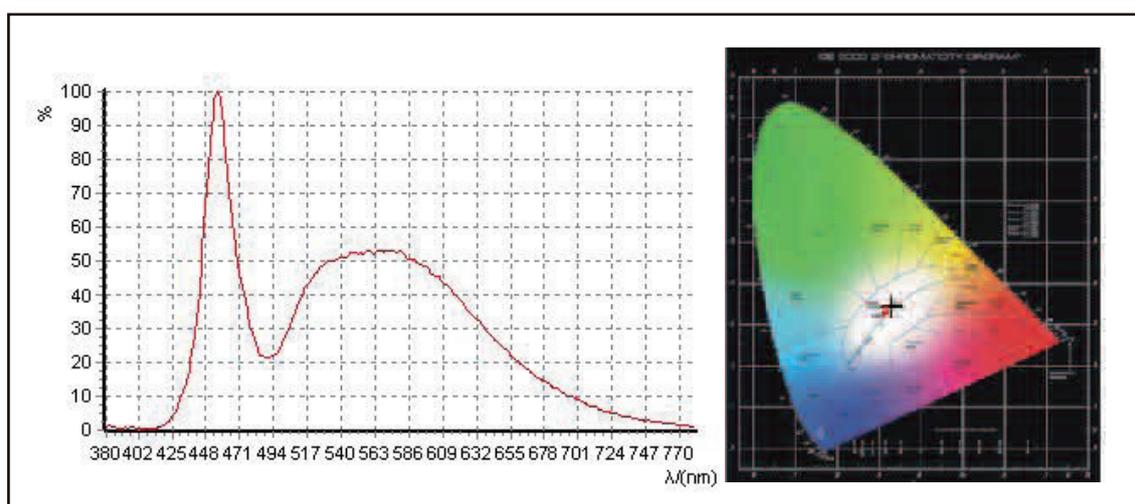
Rating: 220-240V/AC  
Line frequency: 50Hz  
HF system: 5.8GHz CW, ISM wave band  
Rated load: 15W Max.  
Transmission power: <0.2mW  
Luminous flux: 1000lm  
Time setting: 6sec to 12min (adjustable)  
Detection angle: 360°

Detection range: 1-10m (radii.) (adjustable)  
Light-control: 10-2000LUX (adjustable)  
Standby power: <0.9W  
Installation height: 2.5m~3.5m (ceiling mount)  
Net weight: 1.03 kg  
Lamp part  
LED quantity: 96PCS  
LED: T5050

## OPERATING RANGE



## SPECTROGRAM



## INSTALLATION



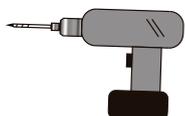
### Warning!

1. Please keep away from the children
2. Please avoid fire/high temperature/damp places for installation.
3. Ensure that mains power is switched off during installation of the wiring

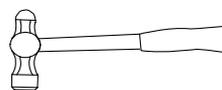
### Note: tools required



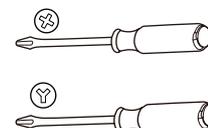
Pencil



Electric drill

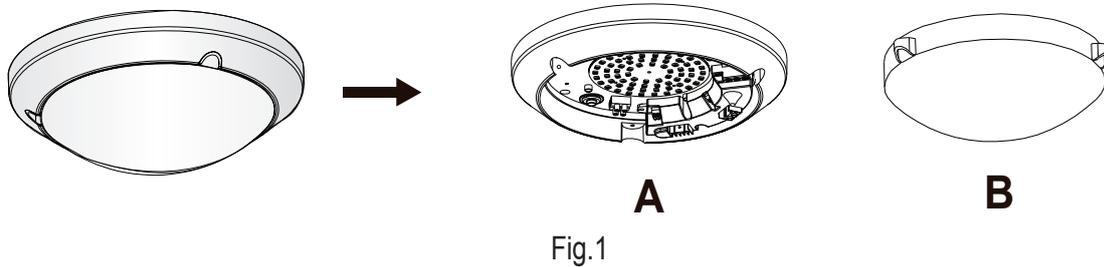


Hammer



Screwdriver

- Step1 Unscrew the plastic cover to gain access to the adjustment controls



- Step2 Turn the controls for the required settings (Fig. 2)



### Detection range setting (sensitivity)

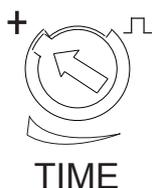


Adjust the Reach control to set the radius of operation of the microwave detection zone. An ideal ceiling mount height is 2.5m, turn the Reach control fully anti-clockwise to select the minimum reach (approx.1metre), and fully clockwise to select maximum reach (approx. 10metres).

**NOTE: The sensitivity assumes a person to be between between 1.6m~1.7m tall moving at a speed of 1.0~1.5m/sec**

**Adjust the sensitivity to suit the local conditions. Avoid setting to the maximum value as it may react to curtain movement and small animals. Also be aware of power grid and electrical equipment that may interfere with the correct operation of the sensor. Lowering the sensitivity may improve the operation in situations where there may be electrical interference.**

### Time setting



The light can be set to stay ON for any period of time between approx. 6sec (turned fully anticlockwise) and a maximum of 12min (turned fully clockwise). Any movement detected before this time has elapsed will re-start the timer. It is recommended to select the shortest time when adjusting the detection sensitivity.

**NOTE: There will be a delay of approximately 1 second after the light switches OFF before movement can be detected again**

### Light level control



The chosen light threshold can be set from approx. 10-2000lux. Turn it fully anti-clockwise to select dusk operation at about 10 lux. Turn it fully clockwise to select daylight operation at about 2000lux. Turn the control fully clockwise when adjusting the motion detector sensitivity.

**Note: To avoid damaging the controls, please do not attempt to adjust past the limit stops. The range of adjustment is limited to 270°.**

- Step 3: Ensure that there are no pipes or cables of any sort behind the panel where the light is to be located. Hold the base to the ceiling and mark the locations of the fixing holes with a pointed instrument such as a screwdriver
- Step 4: Drill holes at the locations marked previously and fit rawl plugs as necessary.

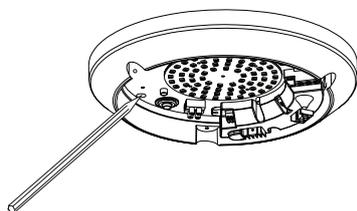


Fig.3

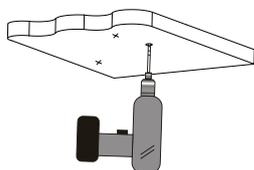
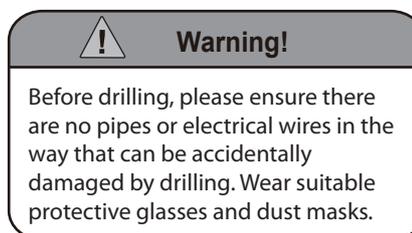


Fig.4



- Step 5: Feed the power cable from the lighting circuit through the opening in the housing and connect to the terminal points ensuring correct polarity etc.

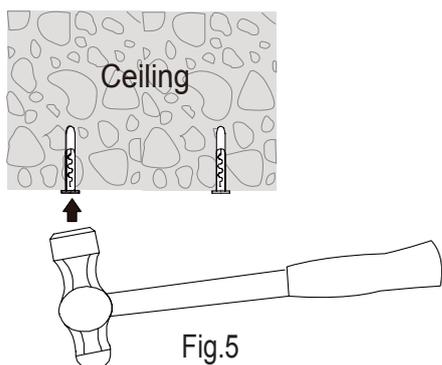


Fig.5

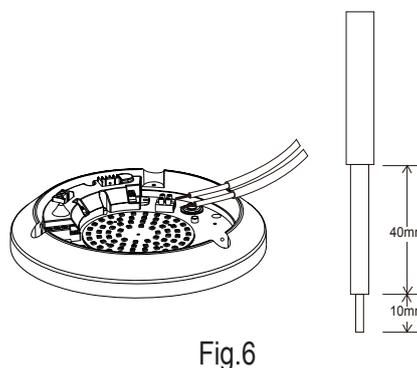


Fig.6

- Step 6: Fix the base with the screws supplied

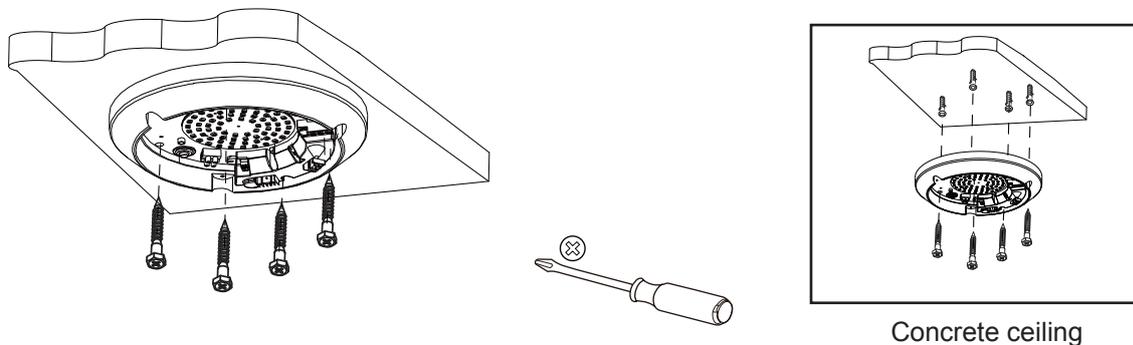


Fig.7

- Step 7: Attach the cover to the base with the screws supplied

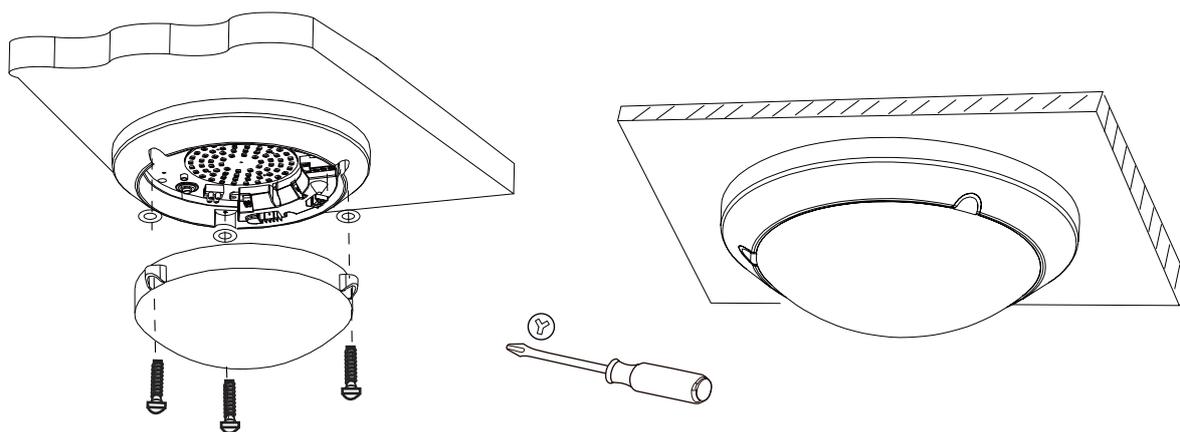
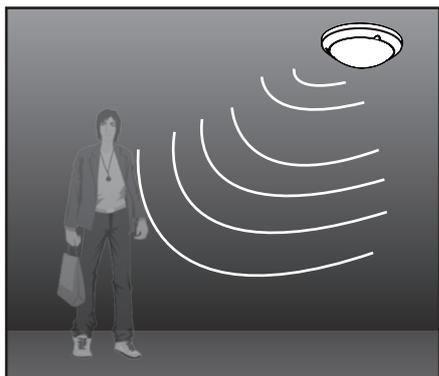
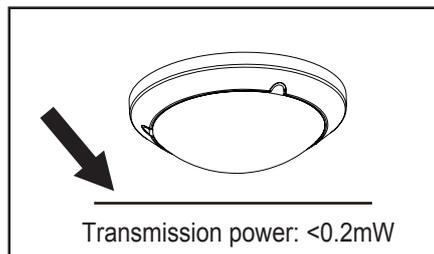


Fig.8

## TROUBLESHOOTING

Fault	Failure cause	Solution
Light does not come on	Lux and/or detection range set incorrectly	Adjust settings
	The power is off	Turn the power on
	Faulty unit	Repair or replace
Light always on	There is a continuous motion in the detection area	Check for any disturbance
	Lamp not mounted securely	Check mounting

**NOTE:** the high-frequency output of this sensor is  $<0.2\text{mW}$ . This is just one 5000<sup>th</sup> of the transmission power of a mobile phone or a microwave oven



Detection of human movement



Light illuminates when motion is detected



Application



## **Warning!**

1. Always remove ALL power when working on the unit
2. Ensure installation and adjustment is carried out by suitably qualified personnel.
3. Improper installation or use may invalidate product warranty

## **FEATURE OVERVIEW**

Low Power LED bulkhead lamp with built-in microwave motion sensing.

50% energy savings compared with traditional fluorescent lamps.

Long Life - 30000hrs, 3 times longer than fluorescent lamps.

Instant start.

Not dimmable.

Negligible UV and IR radiation output.

High sensitivity microwave sensor that detects human movement and switches the light on and off automatically.

Built-in day-light sensor.

Adjustable time delay and sensor sensitivity.

**[www.energenie4u.co.uk](http://www.energenie4u.co.uk)**

Energenie is a trading name of Sandal plc,  
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