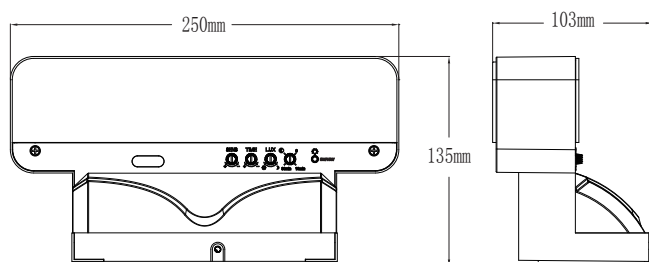


# Microwave Sensor Light

## PD-LED131-D



### Product size



### Summary

This is a new concept design of intelligent wall installation series LED microwave induction lamp, additional power failure standby battery power supply lighting function. The lighting part is automatically managed by a dual system of municipal power supply and standby battery power supply. When the power supply of the power network is interrupted, the self-provided battery of the system will automatically

assume the follow-up power supply and provide 5W power to the induction lamp system. The power supply of the standby battery can last for more than 1 hour and can also be adjusted according to the customer's demand. However, the duration of the standby battery storage is inversely proportional to the brightness. This product can be widely used in corridors, toilets, elevator entrances and other energy-saving application Spaces.

The product comes in two configurations: an induction lamp with dual AC/DC systems for emergency management; One is a smart sensor lamp without emergency functions. Customers can choose the configuration according to their needs. It is necessary to choose emergency lights under most circumstances. Occasional power outages without lighting can cause a lot of trouble and even danger, so this product with emergency lights is a wise choice. The shell of the product adopts aluminum alloy body, frosted baking process, and other parts adopt PC anti-ultraviolet engineering plastics, which greatly enhances the service life of the product.



Use high quality PC lampshade. Strengthen the flexible refraction of light. And its function of anti-ultraviolet makes the shade not easy to turn yellow and be broken.



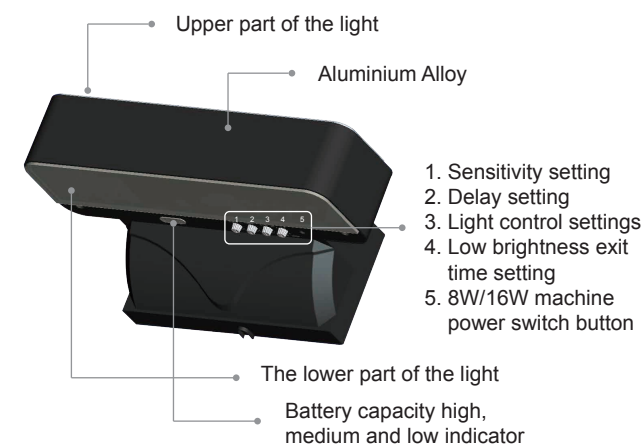
LED lamp consumes power 80% less than incandescent lamp and 50% less than fluorescent lamp.

### Specifications

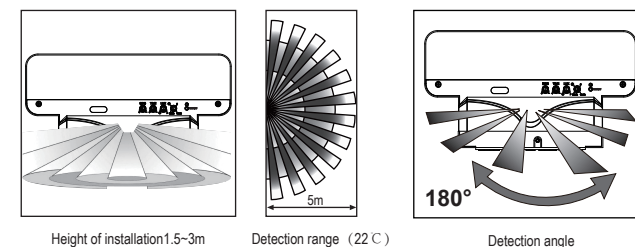
Power source: 220-240VAC, 50/60Hz  
 Rated LED: 8W/16W Max.(AC) 5W Max.(DC)  
 Charging power: 5W Max.  
 HF system: 5.8GHz  
 Battery: 3.7V / 1800mAh lithium battery(18650)  
 Continuous illumination time: ≥60min  
 Transmission power: <0.2mW  
 Detection angle: 180°  
 Time setting: 10sec to 12min (adjustable)  
 Detection range(22℃): 1-5m (radial) (adjustable)  
 Light-control: <10-2000LUX(adjustable)  
 Installation height: 1.5-3m

LED quantity: 72PCS(2835)  
 Working temperature: -20~+55℃  
 Operating Temperature: -10 - +40℃  
 Probe movement speed: 0.6-1.5m/s  
 relative Humidity: <93%RH  
 Static power consumption: <0.5W

### Name of each part

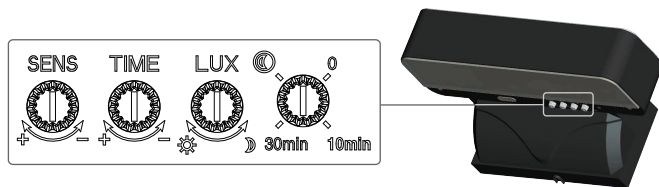


### Induction information



### Parameter setup Method: potentiometer

The following settings may require multiple adjustments to meet your requirements.



### (3)Detection distance setting (sensitivity)



Detection range is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 3m, turn the reach control fully anticlockwise to select minimum

reach (approx.1m radii), and fully clockwise to select maximum reach (approx. 5m radii).

**Note:** this detection range value is measured by the body of a person 1.6~1.7 meters tall, of medium build, and with a walking speed of 1.0~1.5 meters/second. If the height, shape and walking speed of the human body change, the sensing distance will also change.

**Notice:** when using the product, please adjust the product sensitivity to the appropriate position, do not adjust the product sensitivity to the maximum, to avoid improper operation caused by wind starting curtains, leaves, small animals, power grid and electrical equipment, which may cause the product not to work properly. When it is found that the product does not work properly, the user can try to lower the sensitivity appropriately before carrying out the test. Before or during the installation of the product, if the functional test is carried out, the personnel must leave the product sensor area and do not walk around to prevent continuous work of the sensor due to human movement. **Friendly reminder:** the installation distance of two or more products must be more than 4 meters, otherwise it will cause mutual interference and lead to misoperation.

### (3)Delay setting



It can be set in the range of 10 seconds (anticlockwise to the bottom) to 12 minutes (clockwise to the bottom), and the timing will be restarted when the moving signal is detected before the end

illumination value is about the day when the clockwise spin is in the end.

**Note:** after the light goes out, it needs to wait for nearly 2 seconds before it can be sensed again. The lights will only turn on when a signal is detected at the end of this time.

**Proper use of delay adjustment:** it is used to adjust the delay time from the light on to the automatic light off after the sensor detects human movement. Users can adjust according to actual demand. Because of the continuous induction function of microwave induction products, in short, the system will restart the timing of any sensor before the end of the delay time, and the lights will not go out as long as people move within the detection range. Therefore, users are advised to reduce the delay time to achieve energy saving.

### (3)Light-control setting

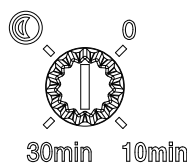


The work illumination value can be adjusted <10-2000LUX range.

The working illumination value is about 10LUX when rotating anticlockwise to the bottom, and about 2000LUX when rotating clockwise to the bottom. When

walking during the day to test or adjust the detection area, this knob must be rotated clockwise to the bottom.

### (4) Low brightness time exit setting



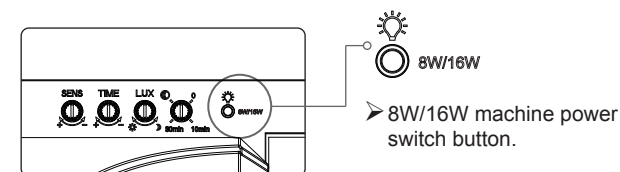
% brightness exit time: When it is adjusted to 0, there is no semi-brightness, and the induction lamp is completely off; On the contrary, the induction delay is maintained at % brightness, and the delay is determined by the actual potentiometer

position.

**Note:** % brightness exit is divided into: time exit and light control exit. When the light control is >100Lux, the semi-bright will automatically exit the energy saving.

**Note:** When adjusting the five function knobs, do not use too much force because the five knobs are mounted directly on the component. When adjusting the starting point to the end point, there is a small limit device inside. When you use too much force during operation, the limit device will be damaged, resulting in an

unobstructed 360° rotation. Its adjustment limit is 230°, please pay attention.



### Battery voltage indicator

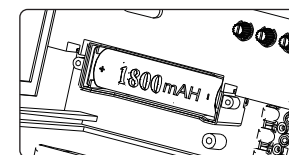


It is divided into 4 levels: 25%, 50%, 75% and 100%. During the charging process, the indicator is flashing. When it is full, the indicator is all on.

When discharging, as the

battery voltage drops, the indicator lights go out one by one; When the 25% voltage indicator starts flashing, it indicates that the battery is about to run out.

When the indicator light of this product is fully on, it does not need to be charged, only when % brightness and completely off, it needs to be charged.



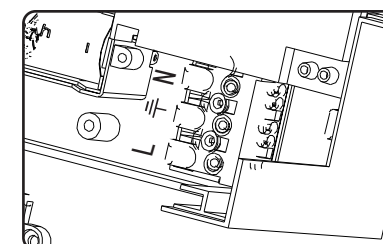
➤ The single section can replace the 18650 lithium battery.

**NOTE:** Make sure the positive and negative electrodes are consistent with the label when installing the battery.

### Connection

Installation is based on the wiring diagram provided.

N L - Power  
⊕ - Ground



## Installation

- (1) turn off the power.
- (2) open the upper cover and remove the base before installation.
- (3) connect the power cord to the terminal according to the wiring mark .

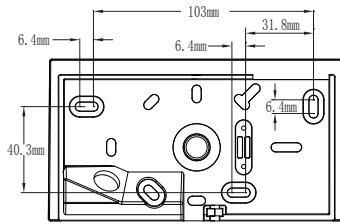


figure 1

- (4) install the bottom cover in the selected position according to figure 1.
- (5) fix the lamp body on the base and install the upper cover.

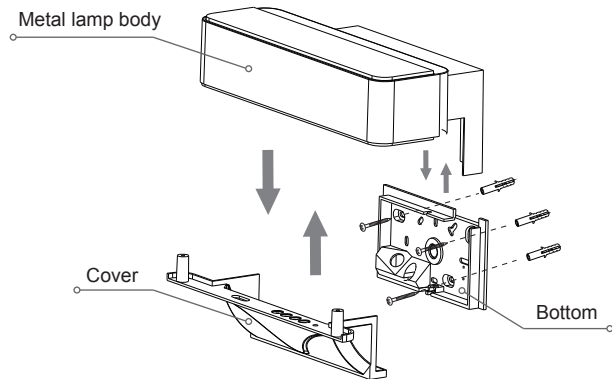


figure 2

### **Warning!**

1. Please keep it away from the children.
2. Please avoid fire/high temperature/damp places for installation.
3. Please confirm when shut off the power cord access.

## Installation Attention

- 1.The LEDS in serial can function when all the seals installed in place.
- 2.Please don't remove or connect with other lamp when

powered on.

3.When the LEDS in serial are damaged ,you need experienced technician to repair using the same rating LEDS.

- Please confirm with professional installation.
- For safety purposes, please cut off power before installation and removal operations.
- Any losses caused by improper operation,the manufacturer does not undertake any responsibility.

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