

## User's Manual of microwave sensor

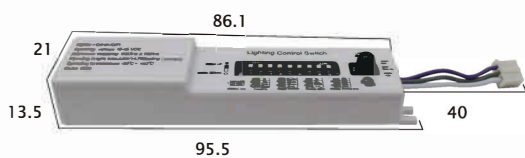
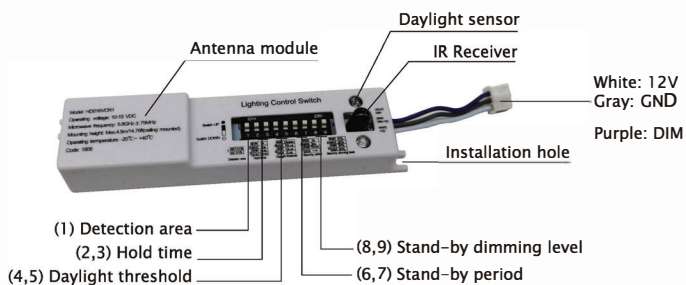


1. 5.8GHz microwave motion sensor with dimmable function
2. DC input
3. Supports DIP switch with programming and remote control
4. 5 years warranty

## 01 Technical data

Operating voltage	10-15VDC
Stand-by power	<0.5W
Stand-by power	≤1W
Detection area	50%/100%
Hold time	5s/30s/1min/10min
Daylight threshold	2Lux/10Lux/50Lux/Disable
Stand-by period	0s/30s/20min/+∞
Stand-by dimming level	10%/20%/30%/50%
Microwave frequency	5.8GHz±75MHz
Microwave power	<1mW
Mounting height	Max. 4.5m/14.76ft ( ceiling mounted )
Detection range	Max.∅12m/39.36ft ( ceiling mounted )
Operating temperature	-20°C~+60°C
Detection angle	30°-150°
Motion detection	0.5~3m/s
IP rating	IP20
Warranty	5 years

## 02 Mechanical structure (Unit: mm)



## 03 Attention



1. Please read the instructions carefully before using this product and keep it well for all users to read at any time.
2. The sensor should be installed by qualified electrician and ensure power is off before the installation.
3. We reserve the right to modify any incorrect text, image and necessary technical parameters.
4. Any unauthorized modification is forbidden, otherwise all guarantees will be immediately invalid.

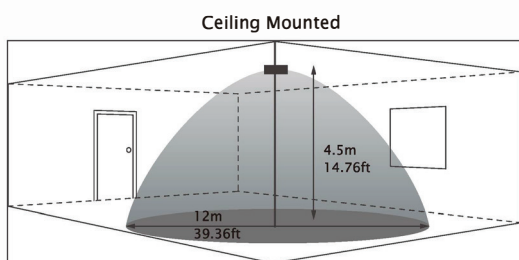
### Installation precautions

1. Microwave sensor can be installed in any lamp except the one with full metal shell.
2. The detected surface cannot be shielded by metal objects.
3. Make sure the microwave module is completely exposed outside.
4. The detection surface of the sensor module shall be installed facing the detection area.
5. Should be kept away from the driver to avoid interference generation and lamp flashing.
6. Wiring must be strictly in accordance with the wiring diagram to avoid short circuit.

### Application Environment

1. Suitable for indoor installation to avoid false triggering due to external factors such as rain, wind or tree swing.
2. Shall not be installed in the place with all four metal shelters and small space (such as galvanized-iron roof).
3. Shall note be mounted installation, so as to avoid false trigger caused by the lamp itself shaking.
4. Shall not be installed next to large operating machines such as ventilator/ceiling fan to avoid false triggering caused by machine vibration.

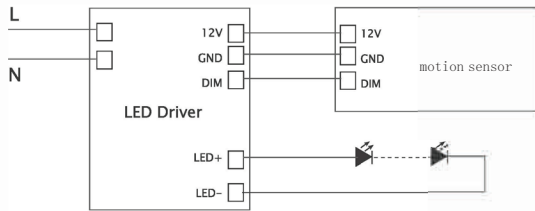
## 04 Detection coverage



### User Notes

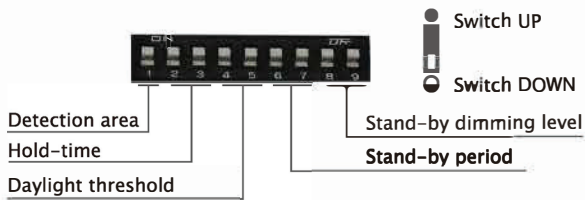
1. Microwave can penetrate walls or glass thinner than 20cm and attenuate if thicker than 20cm.
2. The driver voltage shall be stable and float within 10%.
3. Detection area will be affected by speed of motion, mounting height and movement volume.
4. Conduct test on sunny days without the lampshade which will affect the tested lux value.

## 05 Wiring diagram



## 07 Settings

By selecting the combination of the DIP switches, sensor will be precisely set for different applications.



1	
<input checked="" type="checkbox"/>	100%
<input type="checkbox"/>	50%

### Detection area

In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitivity.

2	3	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5s
<input checked="" type="checkbox"/>	<input type="checkbox"/>	30s
<input type="checkbox"/>	<input checked="" type="checkbox"/>	1min
<input type="checkbox"/>	<input type="checkbox"/>	10min

### Hold-time

The period of light keeping 100% brightness after moving objects leave the detection area.

4	5	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Disable
<input checked="" type="checkbox"/>	<input type="checkbox"/>	50lux
<input type="checkbox"/>	<input checked="" type="checkbox"/>	10lux
<input type="checkbox"/>	<input type="checkbox"/>	2lux

### Daylight threshold

Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable", the sensor works everytime it detects motion regardless the ambient brightness.

6	7	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0s
<input checked="" type="checkbox"/>	<input type="checkbox"/>	30s
<input type="checkbox"/>	<input checked="" type="checkbox"/>	20min
<input type="checkbox"/>	<input type="checkbox"/>	+∞

### Stand-by period

The period of light keeping low output before it's completely switched off. When it's preset as "∞", the light always keep at low output if no movement in the detection area and doesn't turn off.

8	9	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	10%
<input checked="" type="checkbox"/>	<input type="checkbox"/>	20%
<input type="checkbox"/>	<input checked="" type="checkbox"/>	30%
<input type="checkbox"/>	<input type="checkbox"/>	50%

### Stand-by dimming level

The definition of low output in the standby period.

## 06 Installation Method

