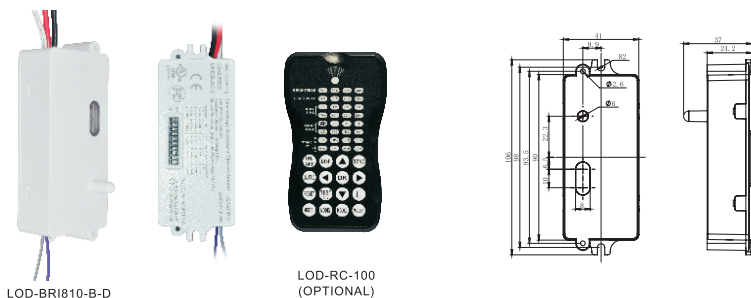


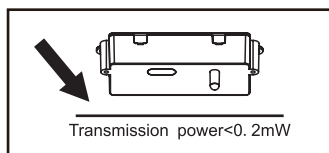
# Line Voltage Microwave Bi-level Sensor LOD-BRI810-B-D instruction



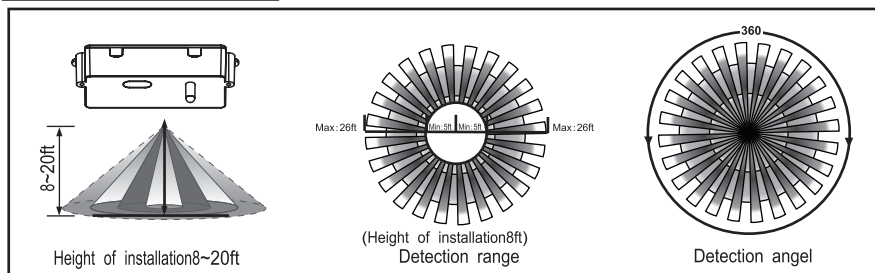
## SPECIFICATIONS

Power supply	120/277VAC 50/60Hz
Maximum load @ -40°F ~ +158°F (-40°C ~ +70°C)	Resistive/Tungsten - 600W@120V Ballast Electronic (LED) - 800VA@120V/1200VA@277V
HF System	5.8GHz CW
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	Max 26ft. (8m) /360°
Mounting height	Max 20ft
Humidity	Max. 95% RH
Temperature	-40°F ~ +158°F (-40°C ~ +70°C)

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



## SENSOR COVERAGE



Once powering the device up, the LOD-BRI810-B-D will use factory default parameters to operate.

## WARNING

**NOTE:** Warm up time is 15seconds. After the sensor connects input power first time, the light will keep on 15seconds, then go to dimming to work normally.

**NOTE:** Factory Default Setting: 100% sensitivity, Hold on time: 10seconds, Daylight sensor is 30lux, Dimming level:30%, Dimming time: 60minutes.

**NOTE:** Any setting changed by DIP Switch or remote control, the led light that sensor connect will on/off as confirm.

# Line Voltage Microwave Bi-level Sensor LOD-BRI810-B-D instruction

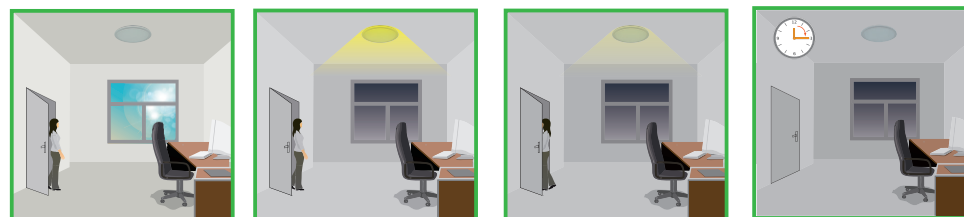
## UTILIZING FIELD AND INTRODUCTION

LOD-BRI810-B-D is a moving object sensor that can detect range of 360° and it's working frequency is 5.8GHz. The advantage of this product is stable working state (stable working temperature: -40°C~+70°C), LOD-BRI810-B adopts a microwave sensor (high-frequency output <math><0.2\text{mW}</math>), so that it is safe and performs better than infrared sensor.

## FUNCTION AND OPTIONS

The microwave sensor to achieve tri-level dimming control, for same areas that require a light change notice before switch off.

It offers 3 levels of the light Control : 100%--dimming light (0,10%,30%,50%)--off; and 2 periods of selectable waiting time: motion hold-time and stand-by time. Selectable daylight threshold and choice of detection area.



With sufficient natural light, the light does not switch on when presence detected.

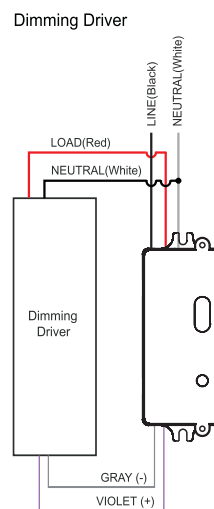
With insufficient natural light, the sensor switches on the light automatically when person enters room.

People left, light still dims to 0/10%/30%/50% (options) standby level after the hold time.

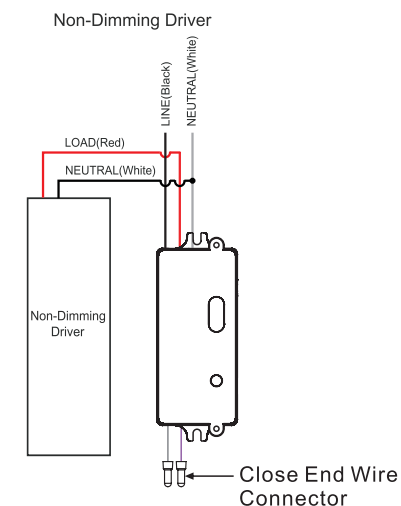
Light switches off automatically after after stand-by time elapsed.

## WIRING DIAGRAMS

Wiring with dimming ballast or LED driver.



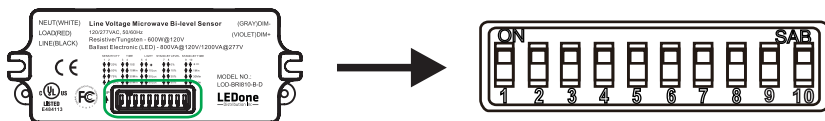
Wiring with non-dimming ballast or LED driver.



# Line Voltage Microwave Bi-level Sensor LOD-BRI810-B-D instruction

## PARAMETER SETTING BY DIP SWITCH

Consider the picture: 1, 2 set sensitivity; 3, 4 set hold time; 5, 6 set the lux; 7, 8 stand-by light level ; 9, 10 set stand-by time ;



### Detection Range 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 8-20ft, pull switch to the ON position as "↑", pull switch to the OFF position as "↓", switch location and detection range of the corresponding table is as follows:

<p>ON ↑ ↓ OFF</p> <p>SENSITIVITY: 1, 2</p>	<p>SENSITIVITY</p> <table border="0"> <tr><td>1</td><td>2</td></tr> <tr><td>↓</td><td>↓</td><td>20%</td></tr> <tr><td>↓</td><td>↑</td><td>50%</td></tr> <tr><td>↑</td><td>↓</td><td>75%</td></tr> <tr><td>↑</td><td>↑</td><td>100%</td></tr> </table>	1	2	↓	↓	20%	↓	↑	50%	↑	↓	75%	↑	↑	100%
1	2														
↓	↓	20%													
↓	↑	50%													
↑	↓	75%													
↑	↑	100%													

### Hold Time Setting

The light can be set to stay ON for any period of time between approx. 10sec and a maximum of 15min. Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test. Pull switch to the ON position as "↑", pull switch to the OFF position as "↓", switch location and detection range of the corresponding table is as follows:

<p>ON ↑ ↓ OFF</p> <p>TIME: 3, 4</p>	<p>TIME</p> <table border="0"> <tr><td>3</td><td>4</td></tr> <tr><td>↓</td><td>↓</td><td>10S</td></tr> <tr><td>↓</td><td>↑</td><td>1Min</td></tr> <tr><td>↑</td><td>↓</td><td>5Min</td></tr> <tr><td>↑</td><td>↑</td><td>15Min</td></tr> </table>	3	4	↓	↓	10S	↓	↑	1Min	↑	↓	5Min	↑	↑	15Min
3	4														
↓	↓	10S													
↓	↑	1Min													
↑	↓	5Min													
↑	↑	15Min													

### Light-control Setting

The chosen light response threshold can be infinitely from approx. 10-50lux, pull switch to the ON position as "↑", pull switch to the OFF position as "↓", switch location and light-control of the corresponding table is as follows:

<p>ON ↑ ↓ OFF</p> <p>LUX: 5, 6</p>	<p>LIGHT</p> <table border="0"> <tr><td>5</td><td>6</td></tr> <tr><td>↓</td><td>↓</td><td>☀ (light sensor disable)</td></tr> <tr><td>↓</td><td>↑</td><td>10Lux</td></tr> <tr><td>↑</td><td>↓</td><td>30Lux</td></tr> <tr><td>↑</td><td>↑</td><td>50Lux</td></tr> </table>	5	6	↓	↓	☀ (light sensor disable)	↓	↑	10Lux	↑	↓	30Lux	↑	↑	50Lux
5	6														
↓	↓	☀ (light sensor disable)													
↓	↑	10Lux													
↑	↓	30Lux													
↑	↑	50Lux													

# Line Voltage Microwave Bi-level Sensor LOD-BRI810-B-D instruction

## Stand-by Light Level Setting

Switch to the on is "↑", switch to the off is "↓"; he corresponding file of switch location and detection distance as follow:

<p>ON ↑ ↓ OFF</p> <p>STAND-BY LEVEL: 7, 8</p>	<p>STAND-BY LEVEL</p> <table border="0"> <tr><td>7</td><td>8</td></tr> <tr><td>↓</td><td>↓</td><td>0%</td></tr> <tr><td>↓</td><td>↑</td><td>10%</td></tr> <tr><td>↑</td><td>↓</td><td>30%</td></tr> <tr><td>↑</td><td>↑</td><td>50%</td></tr> </table>	7	8	↓	↓	0%	↓	↑	10%	↑	↓	30%	↑	↑	50%
7	8														
↓	↓	0%													
↓	↑	10%													
↑	↓	30%													
↑	↑	50%													

## Stand-by Time Setting

File of switch location and detection distance as follow: file of switch location and detection distance as follow:

<p>ON ↑ ↓ OFF</p> <p>STAND-BY TIME: 9, 10</p>	<p>STAND-BY TIME</p> <table border="0"> <tr><td>9</td><td>10</td></tr> <tr><td>↓</td><td>↓</td><td>+∞</td></tr> <tr><td>↓</td><td>↑</td><td>1Min</td></tr> <tr><td>↑</td><td>↓</td><td>30Min</td></tr> <tr><td>↑</td><td>↑</td><td>60Min</td></tr> </table>	9	10	↓	↓	+∞	↓	↑	1Min	↑	↓	30Min	↑	↑	60Min
9	10														
↓	↓	+∞													
↓	↑	1Min													
↑	↓	30Min													
↑	↑	60Min													

## PARAMETER SETTING BY REMOTE CONTROL IN MANUAL OF LOD-RC-100.

### INSTALLATION

