Bi-Level Microwave Sensor for High Bay Light

RC-100 Remote Control optional

Description

The BRI819-B-D used for Highbay lighting fixtures provides mulit-level control with a microwave sensor. It controls 0-10VDC drivers or dimming ballasts. All control parameters are adjustable via a wireless remote including scene and scenarios.

The product is a microwave sensor for high bay installation. It's detection height is 50ft, radius is max 30ft, and working frequency is 5.8 GHz.

Specifications

Power Supply:	120~277VAC, 50Hz/60Hz
Maximum Load @-40°C~70°C	Resistive/Halogen - 800W@120V / 1200W@ 277V Fluorescent Ballast - 660W@120V / 1200W@ 277V Electronic Ballast (LED/CFL) - 5A@120V / 5A@277V
HF System:	5.8GHz CW
Dim Control Output:	0-10V, max. 25mA sinking current
Detection Radius/angle:	30ft/360°
Mounting Height:	Max 50ft
Time setting:	10 sec. - 15 min. (adjustable)
Light-control:	10-2000 Lux (adjustable)
Humidity:	Max 95% RH
Temperature:	-40°C~70°C

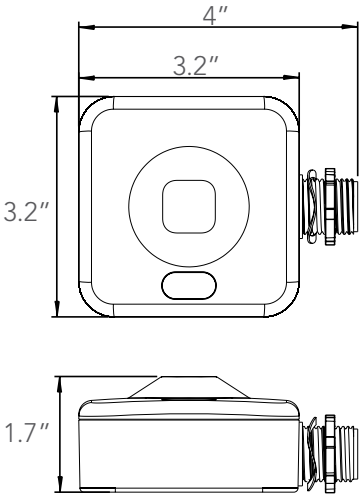
⚠ Warning

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

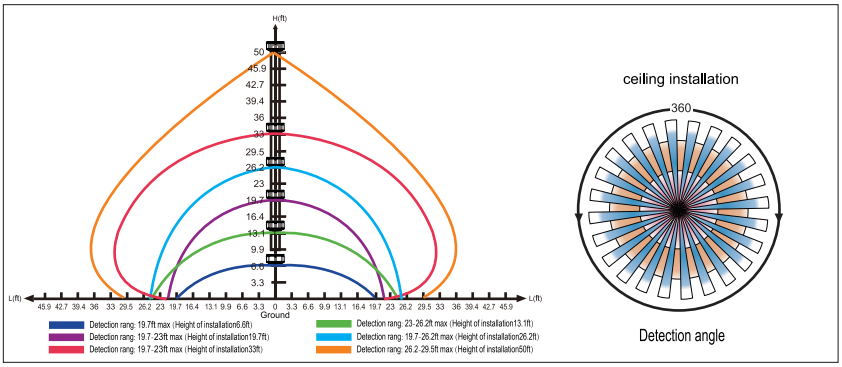
Note: Factory Default Setting: 100% sensitivity, Hold on Time: 10 seconds, Daylight sensor is 30lux, Dimming level: 30%, Dimming time: 60 minutes.

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

Dimensions

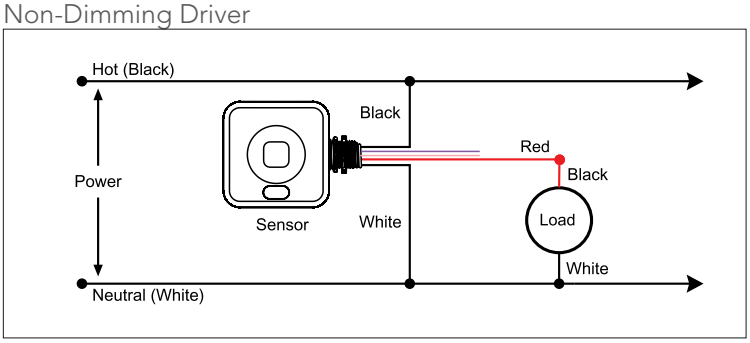


Sensor Information

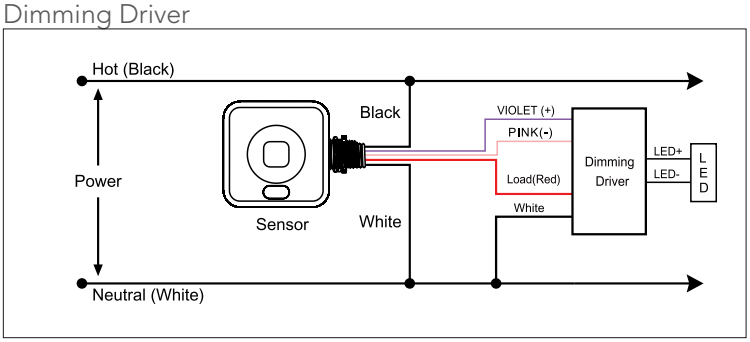


Wiring Diagrams

Non-Dimming Driver



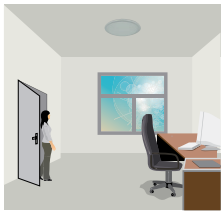
Dimming Driver



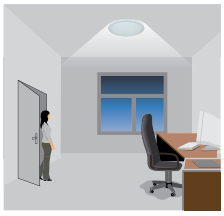
Function and Options

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

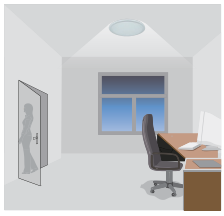
If offers 3 levels of the light control: 100%--dimming light (0%, 10%, 30%, 50%) --off; and 2 periods of selectable waiting time: motion hold-time and stand-by time. Selectable daylight threshold and choice of detection area.



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



With insufficient natural light, the sensor switches on the light automatically when presence is detected

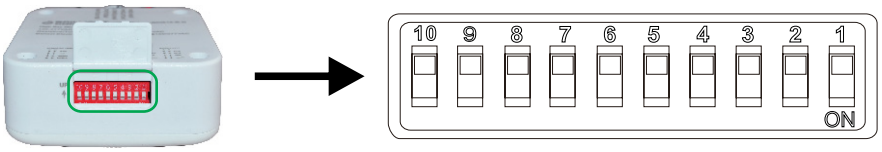


After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.

Light switches off automatically after the stand-by period elapses

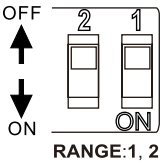
Parameter Setting By DIP Switch

Consider the picture: 1, 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 radius of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 50ft, pull switch to the OFF position as ↑, pull switch to the ON position as ↓, switch location and detection range of the corresponding table is as follows:

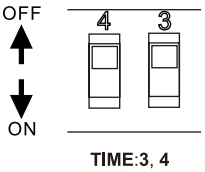


SENSITIVITY 1	2	
↑	↑	20%
↑	↓	50%
↓	↑	75%
↓	↓	100%

Hold Time Setting

The light can be set to stay ON for any period of time between approx. 10 sec and a maximum of 15 mins. Any movement detected before this time elapse will restart 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 OFF position as ↑, pull switch to the ON position as ↓, switch location and detection range of the corresponding table is as follows:

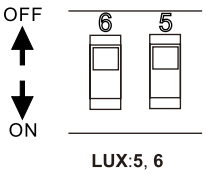


TIME 3	4	
↑	↑	10S
↑	↓	1Min
↓	↑	5Min
↓	↓	15Min

Project Name	
Catalog #	
Job Type	
Prepared By	
Notes	

Light-control Setting

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

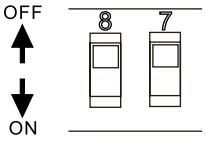


LUX:5, 6

LIGHT 5	6	
↑	↑	☼ (light sensor disable)
↑	↓	10Lux
↓	↑	30Lux
↓	↓	50Lux

Stand-by Light Level Setting

Switch to the OFF position as ↑, switch to the ON position as ↓, the corresponding file of switch location and detection distance as follow:

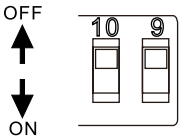


STAND-BY LEVEL:7, 8

STAND-BY LEVEL 7	8	
↑	↑	0%
↑	↓	10%
↓	↑	30%
↓	↓	50%

Stand-by Time Setting

File of switch location and detection distance as follow:



STAND-BY TIME:9, 10

STAND-BY TIME 9	10	
↑	↑	+∞
↑	↓	1Min
↓	↑	30Min
↓	↓	60Min

Parameter setting by Remote Control in Manual of RC-100

Ordering Information

Part #	Description
BRI819P-B-D	Sharkward 120-277V 0-10V Microwave Motion Sensor