



Line Voltage Microwave Bi-Level Sensor



Description

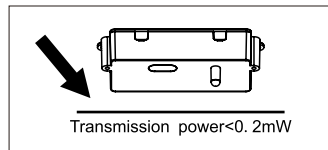
The BRI810-B-D microwave sensor has a detection range of 360° with a working frequency is 5.8GHz. The advantage of this product is its reliable working state. BRI810-B-D adopts a high-frequency output to outperform infrared sensors.

Specifications

Power Supply:	120~277VAC, 50Hz/60Hz
Maximum Load @-40°C~70°C	Resistive/Tungsten - 600W@120V Electronic Ballast (LED) - 800VA@120V / 1200@277V
HF System:	5.8GHz CW
Dim Control Output:	0-10V, max. 25mA sinking current
Detection Radius/angle:	Max 26ft/360°
Mounting Height:	Max 12ft
Humidity:	Max 95% RH
Temperature:	-40°C~70°C

Note:

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

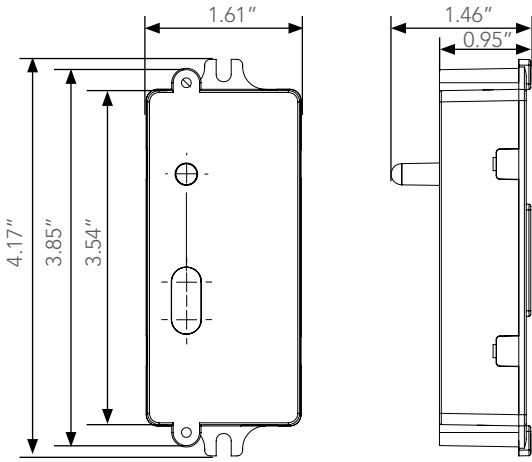


Warning

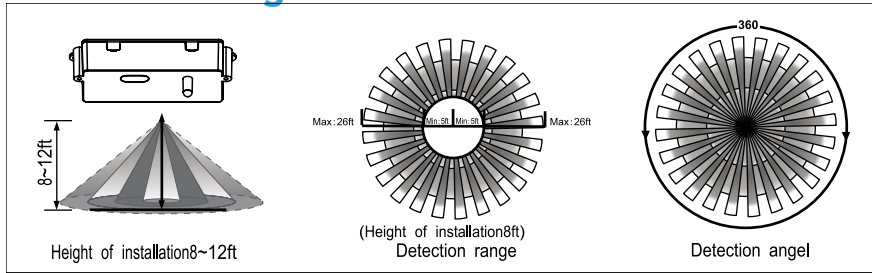
- Note:** Warm up time is 15seconds after the sensor connects input power initially, the light will power on for 15 seconds, then go to 30% dimming level for 60 minutes.
- Note:** Factory Default Setting: 100% sensitivity, Hold on Time: 10 seconds, Daylight sensor is 30lux, Dimming level: 30%, Dimming time: 60 minutes.
- Note:** Any time settings are changed by DIP switch or remote control, the LED light will flash on/off to confirm.



Dimensions



Sensor Coverage



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

Function and Options

3 levels of the light control: 100%--dimming light (0%, 10%, 30%, 50%) --off, 2 selectable delayed wait time: motion hold stand-by time, Selectable daylight threshold.



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

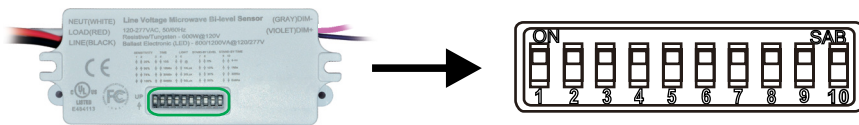
With insufficient natural light, the sensor switches on the light automatically when presence is detected

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

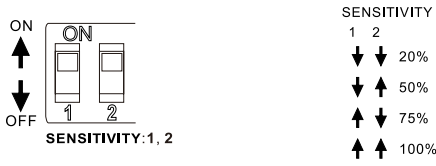
Consider the picture: 1, set sensitivity; 3, 4 set hold time; 5,6 set the lux; 7,8 stand-by light level; 9,10 set stand-by time;





Detection Range Setting (sensitivity)

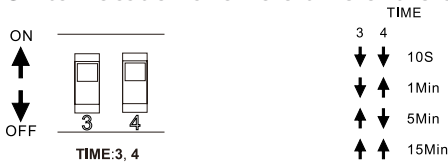
Detection range can be changed by selecting the combination on the DIP switches to fit each application:



Hold Time Setting

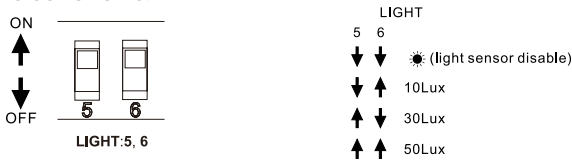
This control can be set to stay ON for any period of time between approx. 10 sec and a maximum of 15 mins. Any movement detected before this time elapse will restart the timer. It is recommended to select the shortest time for adjusting the detection zone as needed.

Switch location and hold time of the corresponding table is as follows:



Light-control Setting

The control response threshold can be changed from approx. 10-50lux, switch location and light-control of the corresponding table is as follows:



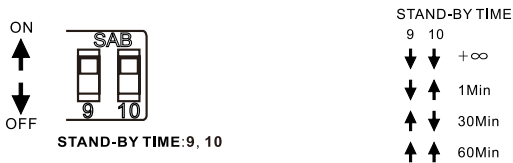
Stand-by Light Level Setting

The control stand-by light level setting corresponds to the switch location and Stand-by Level as follow:



Stand-by Time Setting

The control stand-by time setting corresponds to the switch location and Stand-by Level as follow:

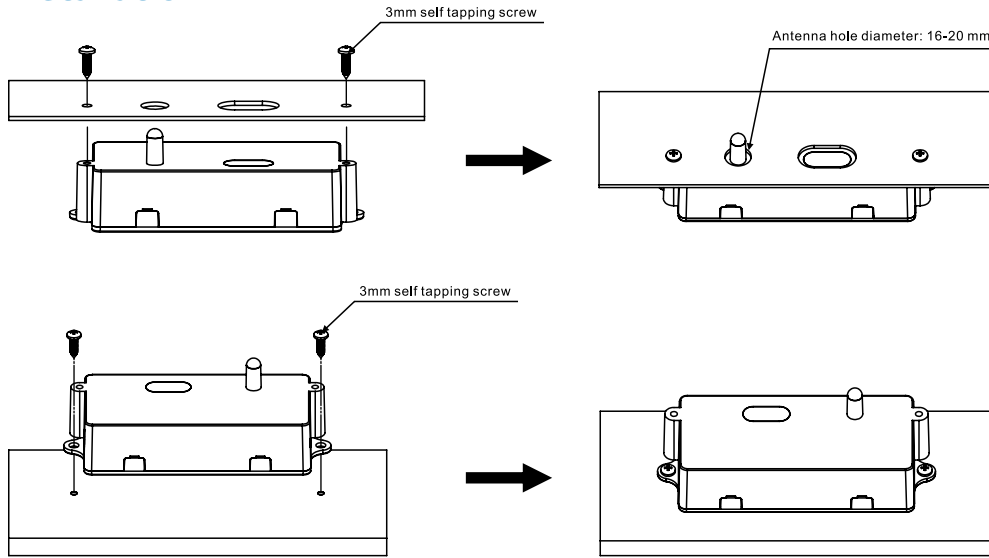


Parameter setting by Remote Control in Manual of RC-100



Project Name	
Catalog #	
Job Type	
Prepared By	
Notes	

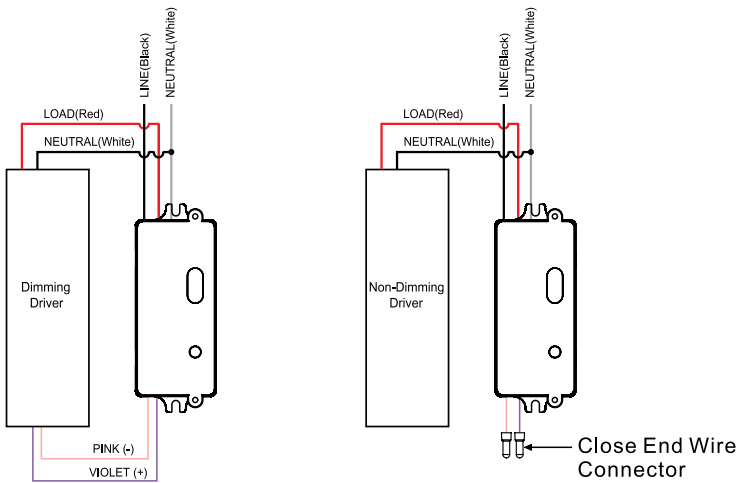
Installation



Wiring Diagrams

Dimming Driver

Non-Dimming Driver



Ordering Information

Part #	Description
BRI810-B-D	Sharkward Line Voltage 0-10V Microwave Motion Sensor