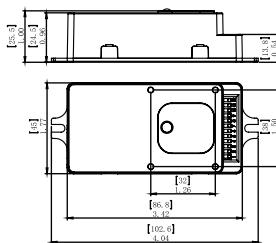


■ Bi-Level & Daylight Harvest Microwave Sensor BRI810-C-F



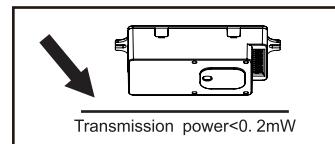
BRI810-C-F



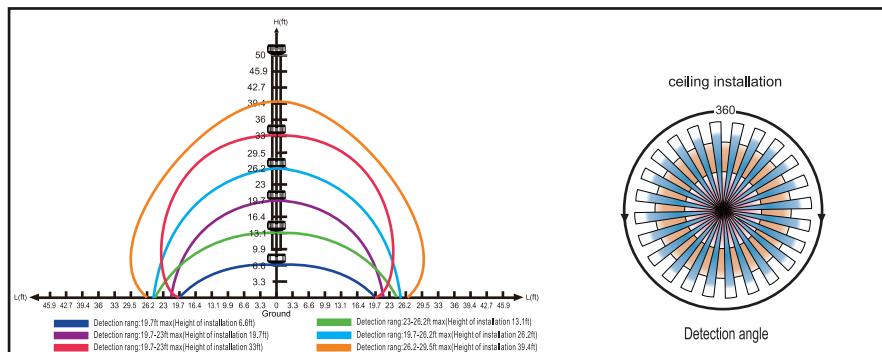
SPECIFICATIONS

Power supply	120/277VAC	50/60Hz
Maximum load @ -40°F ~ +158°F (-40°C ~ +70°C)	Resistive/Tungsten - 600W@120V Electronic Ballast (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 40ft	
Humidity	Max. 95% RH	
Temperature	-40°F ~ +158°F (-40°C ~ +70°C)	

NOTE: The high-frequency output of this sensor is <0.2mW—that is just one 5000th of the transmission power of a mobile phone or the output of a microwave oven.



SENSOR COVERAGE



■ Bi-Level & Daylight Harvest Microwave Sensor BRI810-C-F

WARNING

NOTE: Warm up time is 15seconds. After the sensor connects input power, 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: 60minutues.

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

UTILIZING FIELD AND INTRODUCTION

BRI810-C-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), BRI810-C-D adopts a microwave sensor (high-frequency output<0.2mW), so that it is safe and performs better than infrared sensor.

FUNCTION AND OPTIONS

Daylight Harvesting Function

A control method based on the control of artificial light with available natural light. The purpose is to control the output of artificial light according to the change of natural light, while ensuring that the illumination of the target space does not change to maintain a certain illumination.

ON-OFF Function

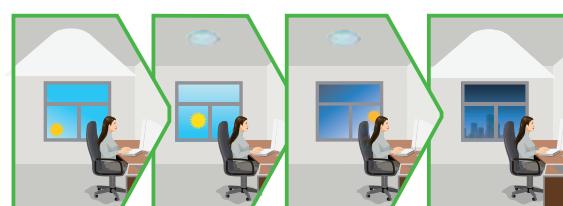
Switch on the lamp on detection of movement, and switch off after a hold time when there is no motion detected. As built-in daylight sensor can read brightness value, the sensor does not switch on the lamp if with sufficient natural light.



The lamp will not switch on when natural light is sufficient, even there is motion detected.



The lamp switches on automatically with presence when natural light is insufficient.



The lamp turns on at full or dims to maintain the lux level. The lamp output regulates according to the level of natural light available.



The lamp dims to stand-by period after hold-time and stays on selected minimum dimming level.



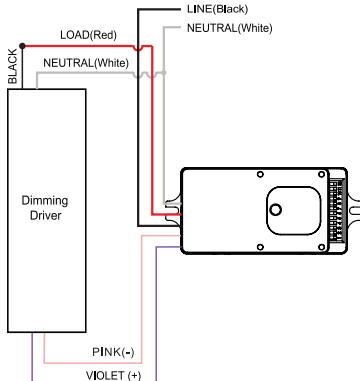
The lamp switches off completely after the stand-by period.

■ Bi-Level & Daylight Harvest Microwave Sensor BRI810-C-F

WIRING DIAGRAMS

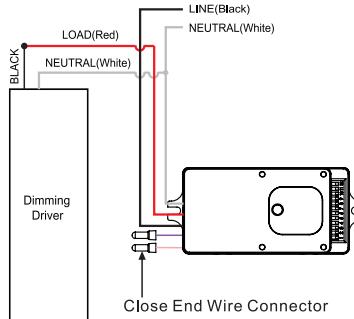
Wiring with dimming ballast or LED driver.

Dimming Driver



Wiring with non-dimming ballast or LED driver.

Non-Dimming Driver



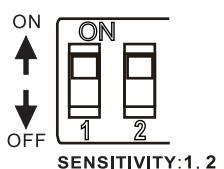
PARAMETER SETTING BY DIP SWITCH

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



Detection Range Setting (sensitivity)

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



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

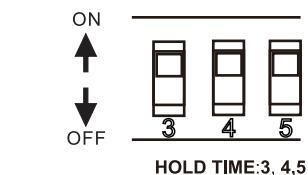
Hold Time Setting

The lamp can be set to stay ON for any period of time between approx. 10sec and a maximum of 30min. 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.

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

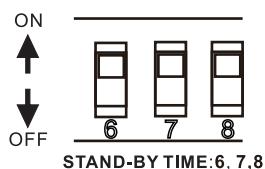
■ Bi-Level & Daylight Harvest Microwave Sensor BRI810-C-F

HOLD TIME		
3	4	5
↓	↓	↓
10S		
↓	↓	↑
1Min		
↓	↑	↓
5Min		
↑	↓	↓
15Min		
↑	↑	↓
30Min		



Stand-by Time Setting

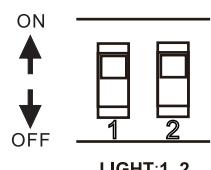
File of switch location and stand-by time setting as follow:



STAND-BY TIME		
6	7	8
↓	↓	↓
+∞		
↓	↓	↑
1Min		
↓	↑	↓
5Min		
↑	↓	↓
15Min		
↑	↑	↑
60Min		

Light-control Setting

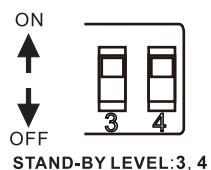
The chosen lamp response threshold can be infinitely from approx. 10-50lux, switch location and light-control of the corresponding table is as follows:



LIGHT		
1	2	
↓	↓	● (light sensor disable)
↓	↑	10Lux
↑	↓	30Lux
↑	↑	50Lux

Stand-by Light Level Setting

The corresponding file of switch location and stand-by level as follows:



STAND-BY LEVEL		
3	4	
↓	↓	0%
↓	↑	10%
↑	↓	30%
↑	↑	50%



FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.