

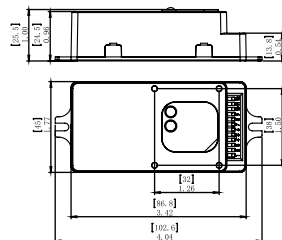
■ Bi-Level & Daylight Harvest Microwave Sensor BRI810-C-F Instruction



BRI810-C-F



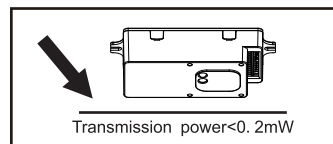
RC-100
(OPTIONAL)



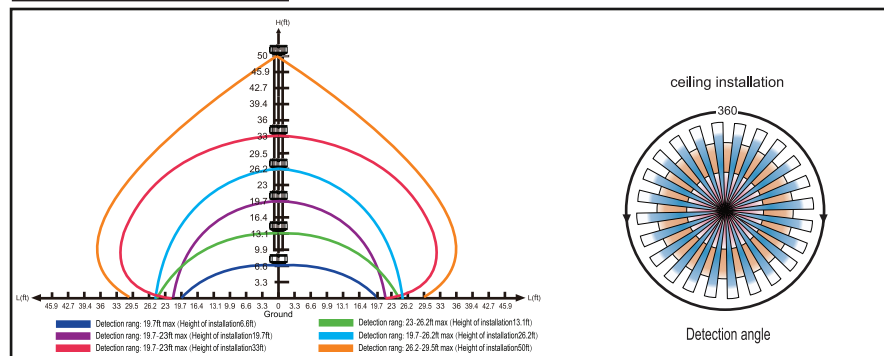
SPECIFICATIONS

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



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⚠ 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: 60minutes.

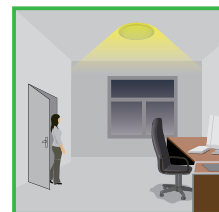
NOTE: Any setting changed by DIP Switch or remote control, the light that sensor connect will on/off as confirm.

DIMMING FUNCTION

This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before switch-off. The sensor offers 3 levels of light: 100%-->dimmed light (natural light is insufficient) -->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom 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.



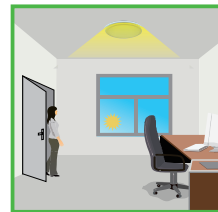
After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.



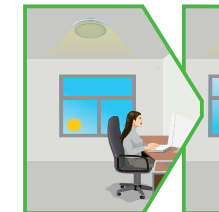
Light switches off automatically after the stand-by period elapses.

DAYLIGHT HARVESTING FUNCTION (ONLY BY USING RC100 REMOTE CONTROL)

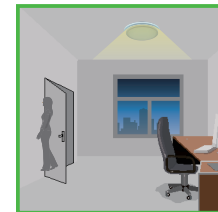
Open the daylight harvesting function only by choosing “👁” button when remote control is in setting condition. Memory and maintain current ambient brightness.



When the natural light is sufficient or dark, movement is detected and the light will turn on 100% brightness.



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



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



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

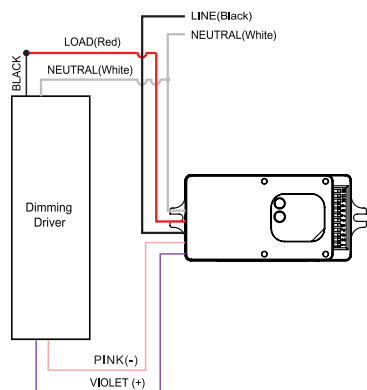
Setting on this demonstration:
BRIGHTNESS:100%
SENSITIVITY:100%
HOLD TIME:30MIN
DAYLIGHT SENSOR: 👁
STAND BY DIM: 30%
STAND BY TIME: 1MIN

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WIRING DIAGRAMS

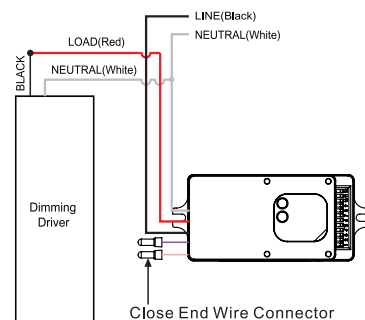
Wiring with dimming ballast or LED driver.

Dimming Driver



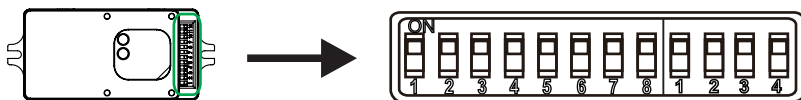
Wiring with non-dimming ballast or LED driver.

Non-Dimming Driver



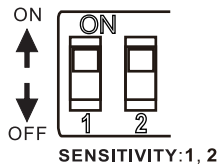
PARAMETER SETTING BY DIP SWITCH

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



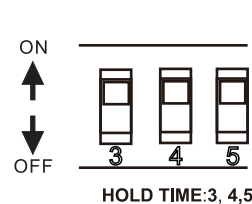
SENSITIVITY

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:

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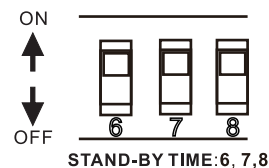


HOLD TIME

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

Stand-by Time Setting

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

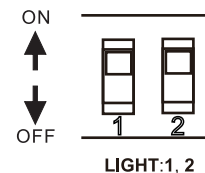


STAND-BY TIME

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:

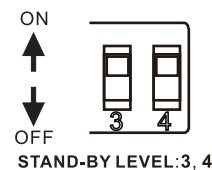


LIGHT

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%

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

