PIR MOTION SENSOR FOR LOW & HIGH BAY FIXTURES

SENSOR

BRI819P-B-O

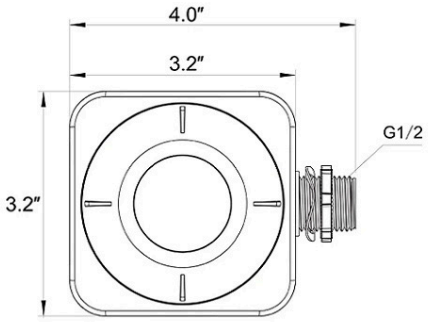
PROJECT

DESCRIPTION

Our UL-listed infrared motion sensor is designed for both high bay and low bay lighting applications, providing reliable and energy-efficient occupancy detection in commercial and industrial environments. Featuring adjustable sensitivity, time delay, and daylight settings, the sensor allows for customized performance based on the specific needs of the space. Its advanced infrared technology ensures accurate motion detection for warehouses, gyms, retail spaces, parking structures, and other large areas. Built for durability and seamless integration, this sensor helps reduce energy consumption while improving lighting automation and occupant convenience.

SPECIFICATION DETAILS

Dimensions	W3.2" x H1.7"
Source	50/60Hz
Power	120-240 VAC
PIR Lens L1	30ft@25ft Height/360
PIR Lens L2	30ft@40ft height/360
Time setting	10sec - 30min (adjustable)
Light control	10-300 LUX (adjustable)
Humidity	Max 95% RH
Tempreture	-40° F ~ +167°F
Dimming	100% - 10%, ELV Dimmer (Not Included)
Diffuser Details	Frosted PC Diffuser
Location	Damp / Dry only
Mounting	1/2" fixture mount
Finish	White
Illumination Direction	Down / Up
Construction	Composite
Standards	UL

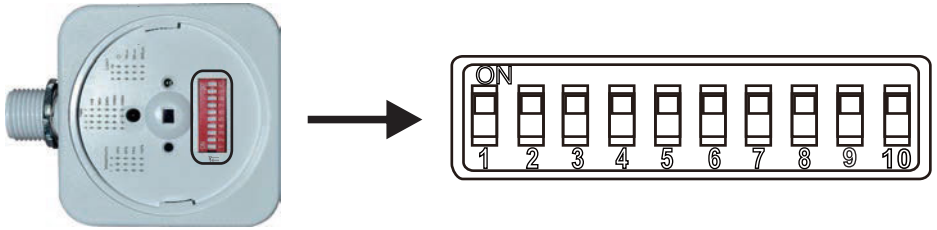


COMMENT

- PIR motion sensor light includes a 40-second warm-up time after initial power connection.
- When input power is connected for the first time, the light will remain ON for approximately 40 seconds, then automatically turn OFF.
- Factory default settings are:
- 100% motion sensitivity
- 10-second hold time
- Any setting adjustment made through the DIP switch will trigger the LED indicator/light to turn ON and OFF as confirmation of the new setting.
- Designed for automatic motion detection and energy-saving operation.

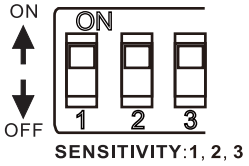
PARAMETER SETTING BY DIP SWITCH

Shown as chart below : By setting the 1, 2, 3 to set the detection range of products , by setting 4, 5, 6, 7 to set the delay time of products, by setting the 8, 9, 10 to set the light-control of products.



Detection Range Setting (sensitivity)

Detection range is the term used to describe the raduis of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of40ft, 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:



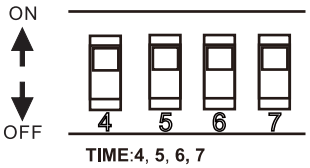
SENSITIVITY:1, 2, 3

SENSITIVITY

1	2	3	
↓	↓	↓	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 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.
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:



TIME:4, 5, 6, 7

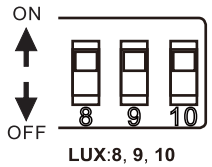
TIME

4	5	6	7	
↓	↓	↓	↓	10S
↓	↓	↓	↑	1Min
↓	↑	↓	↓	5Min
↓	↑	↓	↑	10Min
↑	↓	↓	↑	30Min

■ Infrared Fixture Integrated Sensor For High Bay Light
BRI819P-B-O Instruction

Light-control Setting

The chosen light response threshold can be infinitely from approx. 10-300lux, 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:

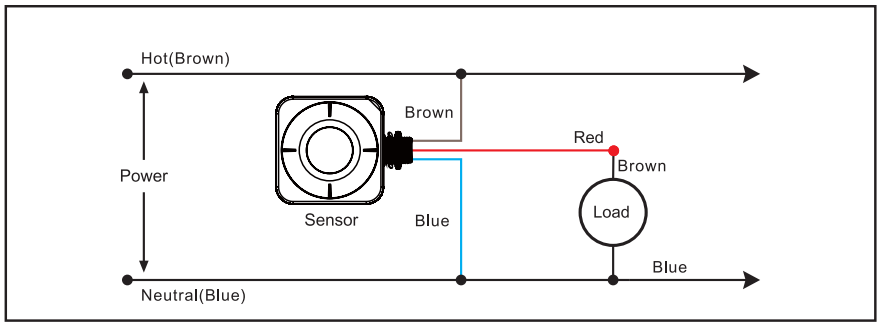


LUX:8, 9, 10

LIGHT

8	9	10	
↓	↓	↓	☼ (light sensor disable)
↓	↓	↑	10Lux
↓	↑	↑	50Lux
↑	↑	↓	300Lux

WIRING DIAGRAMS



SOME PROBLEMS AND SOLUTIONS

➢ The load doesn't work:
a. Check that the power and load requirements are correct.
b. Check if the load is good.
c. Check if the show lamp accelerates its speed after detecting.
d. Check if the working light corresponds to the ambient light.

➢ The sensitivity is poor:
a. Check if there is obstruction in front of the detection window to effect receiving the signals.
b. Check if the ambient temperature is too high.
c. Check if the signal source is in the detection fields.
d. Check if the installation height corresponds to the height indicated in this manval.
e. Check placement of sensor in relation to movement flow.

➢ The sensor can't shut the load automatically:
a. Check if there are continual signals in the detection fields.
b. Check if the time delay is set to the longest.
c. Check if the power corresponds to the instruction.
d. Check if there is temperature change near the sensor.

c UL us LISTED

V2.0