

BRI819P Bi-level and On/Off Sensors

Indoor

The BRI819P indoor sensors provide multi-level occupancy control, controlling 0-10V LED drivers and dimming ballasts. All parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles.



Features

- Provides line voltage On/Off switching and 0-10VDC dimming control
- Works with ballasts or LED drivers
- Adjustable ramp up and fade down times
- Time delay from 5 to 30 minutes
- Optional cutoff delay
- 20-40 foot mounting
- Optional dusk to dawn control
- Up to 200,000 on/off cycles
- High inrush stability zero crossing circuitry for reliable, long-life operation
- latching relay is durable for all load
- UL773A and FCC

Operation

The occupancy sensors are designed to mount to a light fixture and control one load in that fixture. They can be wired to control all ballasts in the fixture, or to control half of the ballasts, providing high/low lighting control. When motion is detected within the sensor's coverage area, the relay in the sensor closes, and lighting loads are automatically turned on.

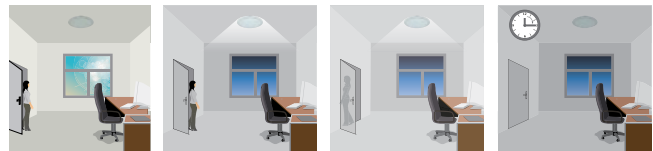
Mounting

Application

The slim, low profile BRI819P is designed for installation by external lens to connect with light fixture body. The sensor is ideal for areas such as parking facilities, gas stations, pedestrian pathways and warehouses. A choice of two PIR sensor lenses ensures complete coverage for mounting heights up to 40'.

Corridor Function

For areas that require a light change notice before switch-off, use the corridor function to achieve tri-level control. The BRI819P offers 3 levels of light: 100 to dimmed light (natural light is insufficient) to off. There are also 2 periods of selectable waiting time: motion hold-time and stand-by period; selectable daylight threshold and freedom of detection area.



Bi-Level

Power Supply	120-277VAC 50/60Hz
Maximum Load -40°C-75 °C	Incandescent/Halogen- 800W/1200W@120/277V Fluorescent Ballast/CFL-800W/1200W@120/277V Electronics Ballast -800W/1200W@120/277V
Dim Control Output	0-10V, max. 25mA sinking current
Detection Radius/ Angle	30ft@40ft height/360 °
Mounting Height	Max 24ft. @L1 Max 40ft. @L2
Remote Range	50ft. (15m) indoor, no backlight
Time Setting	10sec. -60min. (adjustable)
Light-Control	10-2000 Lux (adjustable)
Humidity	Max. 95% RH

On/Off

Power Supply	120-277VAC 50/60Hz
Maximum Load -40°C-75 °C	Resistive/Tungsten-600W@120/277V Electronics Ballast -800W/1200W@120/277V
Dim Control Output	01-10V, max. 25mA sinking current
Detection Radius/ Angle	30ft@40ft height/360, 30ft@25ft height/360
Mounting Height	Max 25ft. @L1 Max 40ft. @L2
Remote Range	50ft. (15m) indoor, no backlight
Time Setting	10sec. -60min. (adjustable)
Light-Control	10-2000 Lux (adjustable)
Humidity	Max. 95% RH
Temperature	-40 °C-75 °C

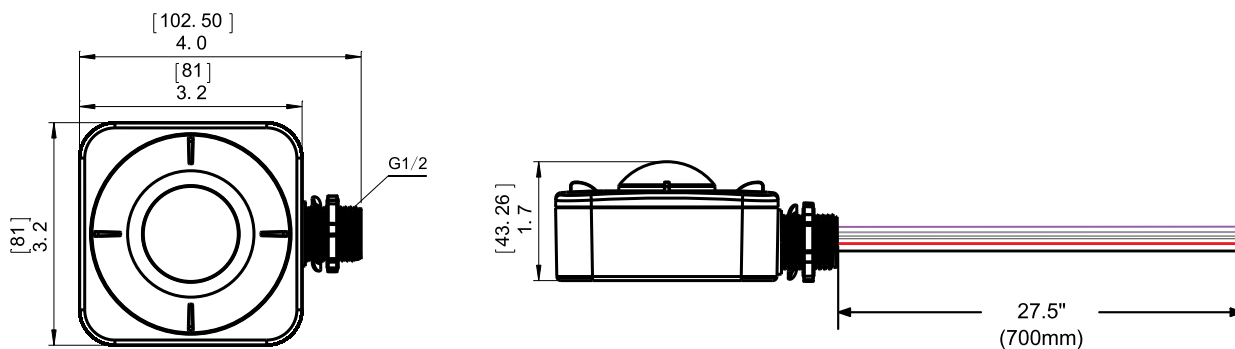
Certifications



BRI819P Bi-level and On/Off Sensors

Indoor

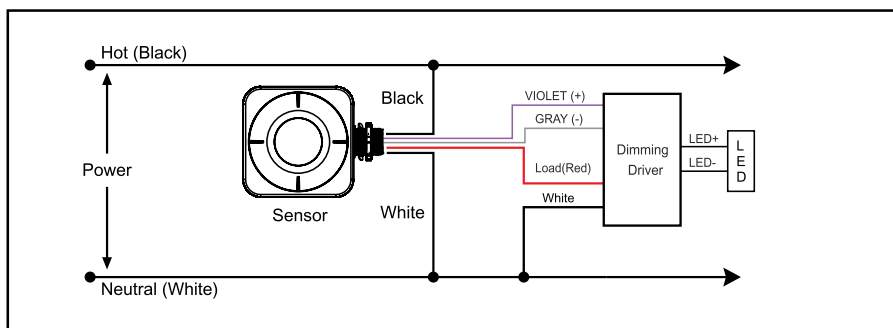
Dimensions



Wiring

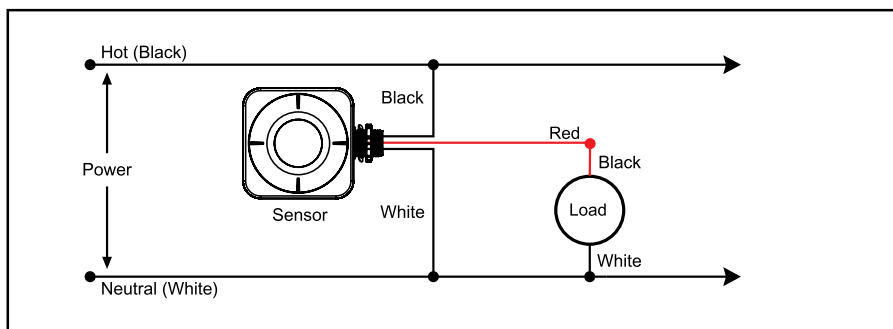
BRI819P-B-D wiring with non-dimming ballast or LED driver.

Dimming Sensor



BRI819-O wiring with non-dimming ballast or LED driver.

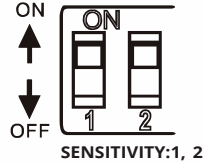
ON/Off Sensor



Settings

Detection Range Setting (sensitivity)

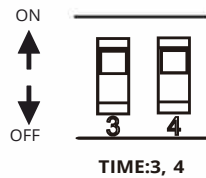
Detection range is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 8-40ft, pull switch to the ON position as "+", pull switch to the OFF position as "-", switch location and detection range of the corresponding table is as follows:



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

Hold Time Setting

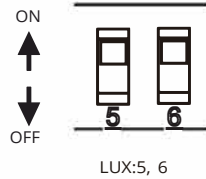
The light can be set to stay ON for any period of time between approx. 10sec and a maximum of 60min. Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test. Pull switch to the ON position as "+", pull switch to the OFF position as "-", switch location and detection range of the corresponding table is as follows:



TIME	
3	4
↓	↓
↓	↑
↑	↓
↑	↑
10S	
10Min	
30Min	
60Min	

Light-control Setting

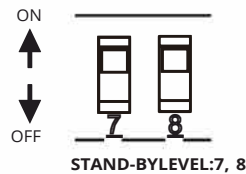
The chosen light response threshold can be infinitely from approx. 10-501ux, pull switch to the ON position as "+", switch to the OFF position as "-", switch location and light-control of the corresponding table is as follows:



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

Stand-by Light Level Setting

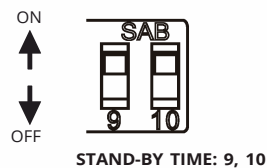
Switch to the on is "+", switch to the off is "-"; the corresponding file of switch location and detection distance as follow:



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

Stand-by Time Setting

File of switch location and detection distance as follow: file of switch location and detection distance as follow:



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