

BRI823-B-D Digital High/Low/Off Passive Infrared

Outdoor



The BRI823-B-D mounts in an outdoor lighting fixture and provides multi-level control based on motion and/or daylight contribution. It controls 0-10VDC LED drivers or dimming ballasts, and is rated for wet and cold locations. All control 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
- High and low modes fully adjustable from 0 to 10V
- Time delay from 5 to 30 minutes
- Optional cutoff delay
- Adjustable ramp up and fade down times
- CLASS 2 for whole sensor
- Optional daylighting setpoints feature automatic calibration, or permit manual adjustment.
- Polycarbonate, flame retardant, UV resistant, impact resistant.
- UL773A and FCC

Operation

Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

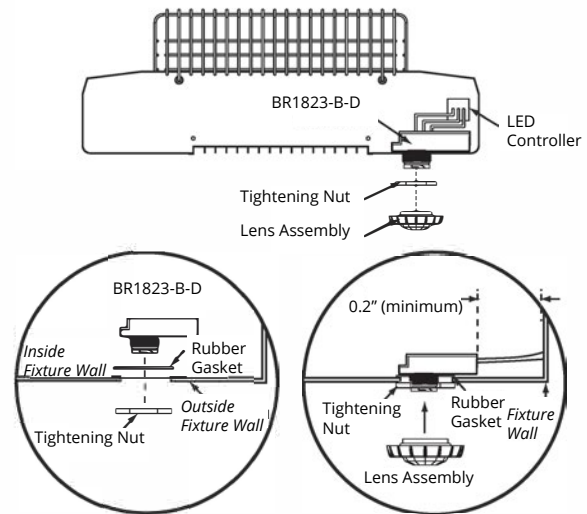
Mounting

Application

The slim, low-profile BRI823-B-D is designed for installation inside the bottom of a light fixture body. When fully assembled and installed in an IP65-rated fixture, the PIR sensor module parts are IP65 outdoor rated. The sensor is ideal for areas such as parking facilities, gas stations, pedestrian pathways and warehouses. A choice of two PIR Lens ensures complete coverage for mounting heights up to 40'.

Wireless Handheld Configuration Tool

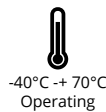
Initial setup and subsequent sensor adjustments are made using a handheld configuration tool (RC-100). This tool enables adjustment of parameter, is also used to initiate automatic calibration of the BRI823-B-D ambient light level setpoint. The setpoint is used to hold the controlled lighting off or at low level when there is sufficient daylight. The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors.



Specifications

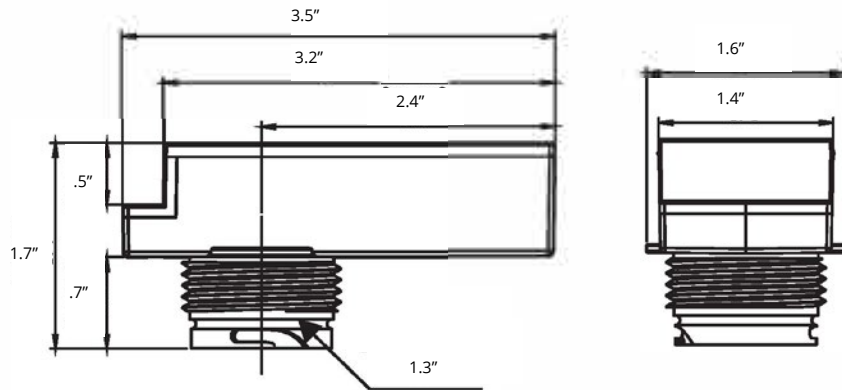
Power Supply	120-277VAC 50/60Hz
Maximum Load -40°C-70 °C	Resistive/Tungsten - 600W@120V Ballast Electronic (LED) -800/1200VA@120/277V
Dim Control Output	0-10V, max. 25mA sinking current
Detection Radius/ Angle	30ft@40ft height/360 °
Mounting Height	Max 24ft. @LW1 Max 40ft. @LS2
Remote Range	50ft. (15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40 °C - +70°C

Certifications

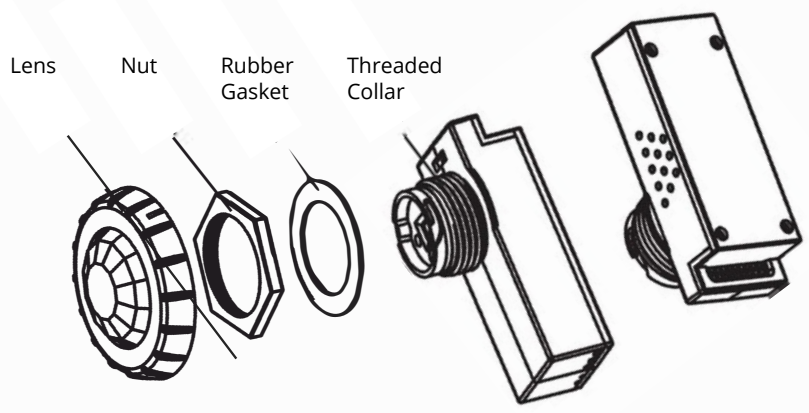
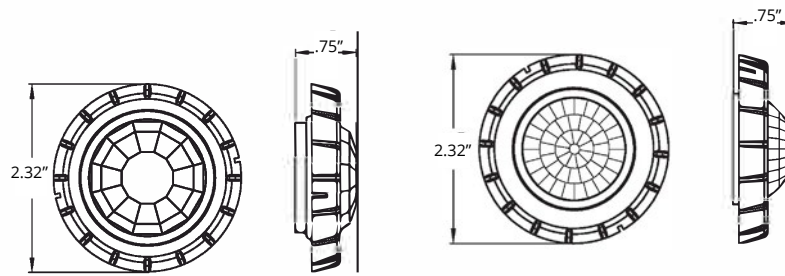


Dimensions

Sensor



Lens



Parameter Setting

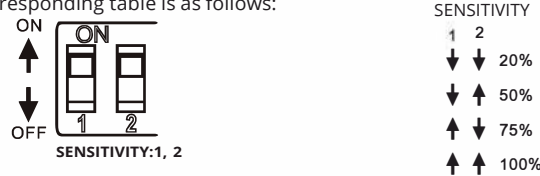
Parameter Setting By Dip Switch

Consider the picture: 1, 2 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 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:



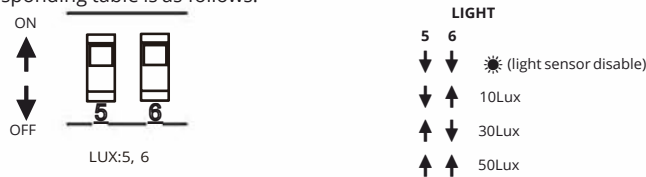
Hold Time Setting

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:



Light-control Setting

The chosen light response threshold can be infinitely from approx. 10-50lux, pull switch to the ON pull position as "+", switch to the OFF position as "+", switch location and light-control of the corresponding table is as follows:



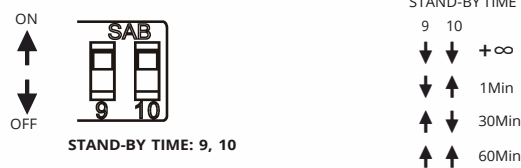
Stand-by Light Level Setting

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



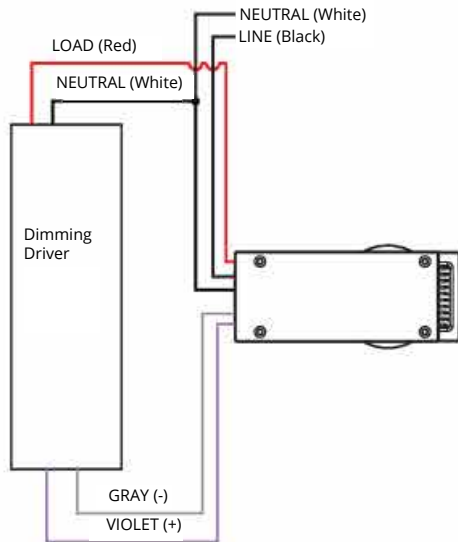
Stand-by Time Setting

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



Wiring

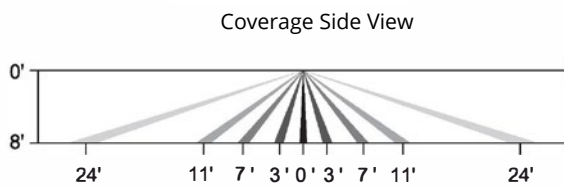
BRI823-B-D wiring with dimming ballast or LED driver.
Dimming Driver



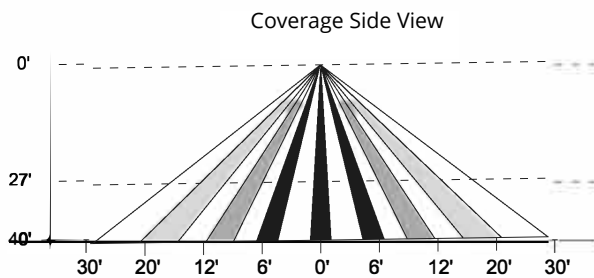
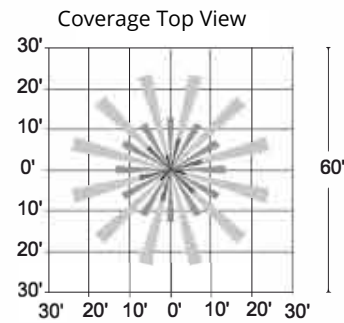
Coverage

LW1

LS2



LW1: 360° Coverage



LS2: 360° Coverage

