



Line Voltage Passive Infrared Fixture Integrated Outdoor Sensor



Description

The BRI823-B-D outdoor sensor provides multi-level control based on motion and/or daylight. It controls 0-10VDC drivers or dimming ballasts, as well as non-dimming ballasts. The BRI823-B-D outdoor sensor is rated for wet and cold locations with a Fresnel Lens. All control parameters are adjustable via a wireless remote including scene and scenarios.

Specifications

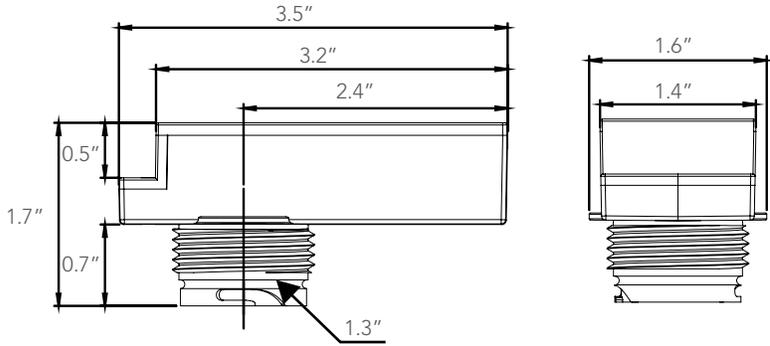
Power Supply:	120~277VAC, 50Hz/60Hz
Maximum Load:	Resistive/Halogen - 800W@120V / 1200W@277V Fluorescent Ballast - 660W@120V / 1200W@277V Electronic Ballast (LED/CFL) - 5A@120V / 5A@277V
Detect Area:	360°, maximum coverage 60' diameter from 40' height
High Mode:	0-10V; default 10V
Low Mode:	Off, 0-9.8V; default 1V
Operating Temperature:	-40°C~70°C
Operating Humidity:	20-90%
Rating:	IP66 for PIR LEN (top part of the sensor)

Warning

- Note:** Warm up time is 4- seconds after the sensor connects input power initially, the light will power on for 40 seconds, then go to 30% dimming level for 60 minutes.
- Note:** Factory Default Setting: 100% sensitivity, Hold on Time: 10 seconds, Daylight sensor is 30lux, Dimming level: 30%, Dimming time: 60 minutes.
- Note:** Any time settings are changed by DIP switch or remote control, the LED light will flash on/off to confirm.



Dimensions



Function and Options

3 levels of the light control: 100%--dimming light (0%, 10%, 30%, 50%) --off, 2 selectable delayed wait time: motion hold stand-by time, Selectable daylight threshold



With sufficient natural light, the light does not switch on when presence is detected

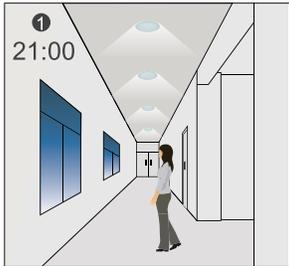
With insufficient natural light, the sensor switches on the light automatically when presence is detected

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

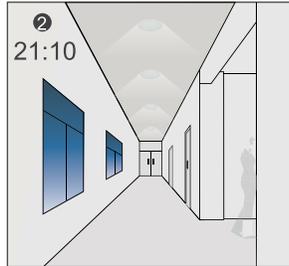
Light switches off automatically after the stand-by period elapses

Daylight Sensor Function

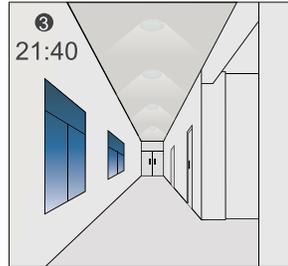
Open the smart photocell sensor by pushing when the remote control is in setting mode.



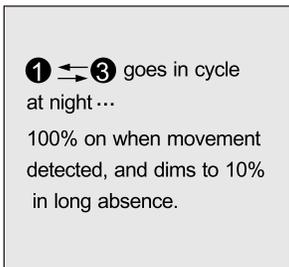
The light switches on at 100% when there is movement detected.



The light dims to stand-by levels after the hold time.



The light remains in dimming level at night.



When natural light levels exceed setpoint off to light, the light will turn off even if the space is occupied.



The light automatically turns on at 10% when natural light is insufficient (no motion)

Settings on this demonstration:

Hold-time: 30mins

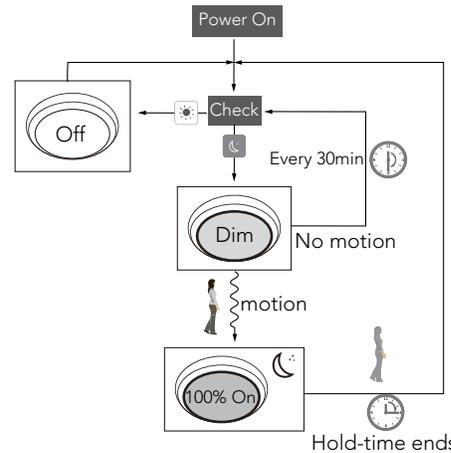
Setpoint On: 50lux

Setpoint Off: 300lux

Stand-by Dim: 10%

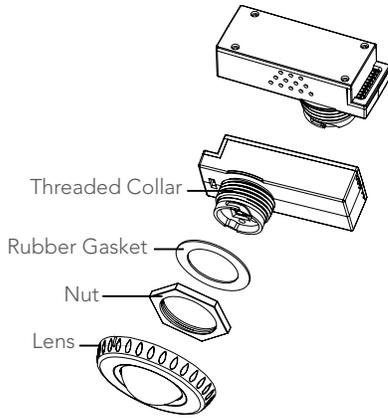
Stand-by period: +∞

(When the smart photocell sensor open, the stand-by time is only +∞)

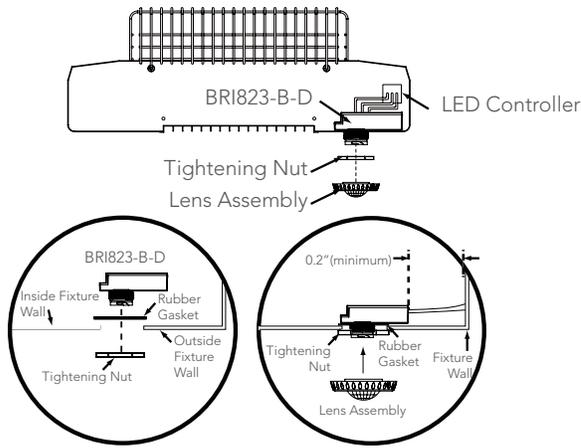




Sensor Module

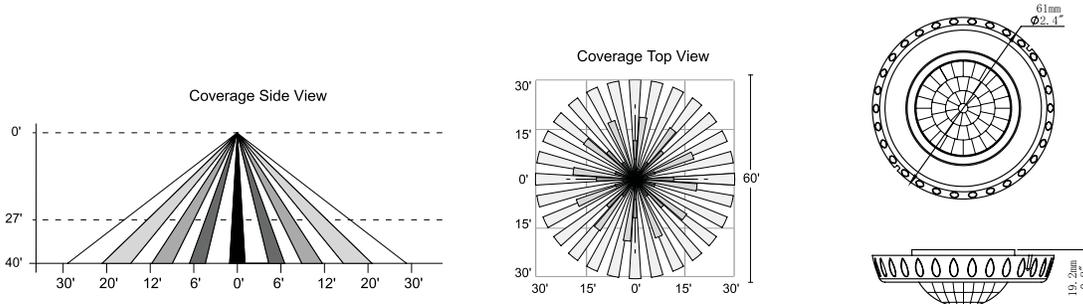


Mounting



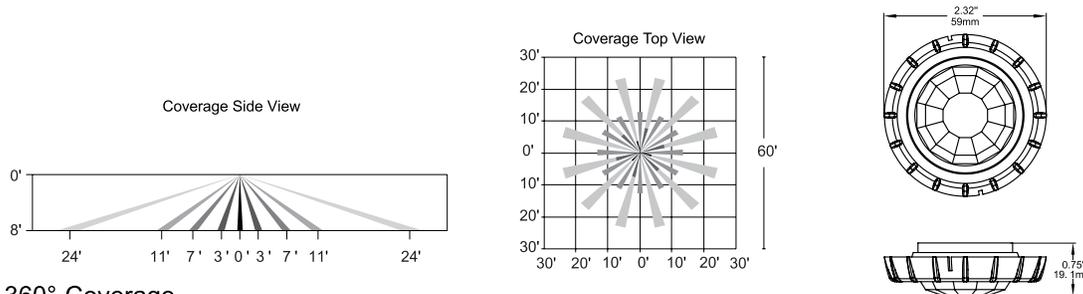
Coverage Pattern

L3



360° Coverage

L4

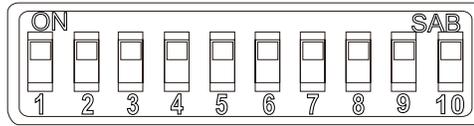
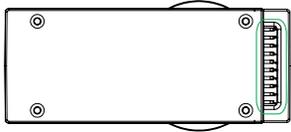


360° Coverage



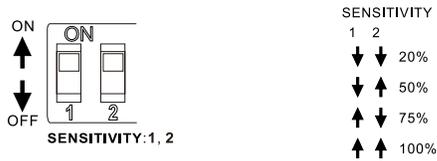
Parameter Setting By DIP Switch

Consider the picture: 1, 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)

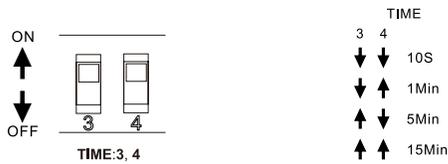
Detection range can be reduced by selecting the combination on the DIP switches to fit precisely each application:



Hold Time Setting

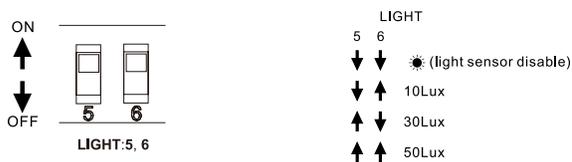
This control can be set to stay ON for any period of time between approx. 10 sec and a maximum of 15 mins. Any movement detected before this time elapse will restart the timer. It is recommended to select the shortest time for adjusting the detection zone as needed.

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



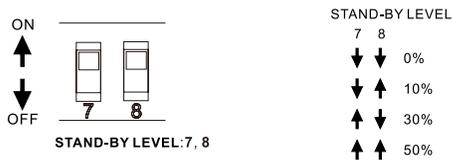
Light-control Setting

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



Stand-by Light Level Setting

The control stand-by light level setting corresponds to the switch location and Stand-by Level as follow:



Stand-by Time Setting

The control stand-by time setting corresponds to the switch location and Stand-by Level as follow:



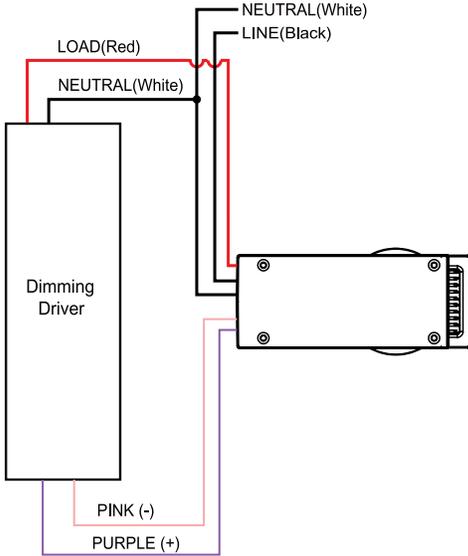
Parameter setting by Remote Control in Manual of RC-100



Project Name	
Catalog #	
Job Type	
Prepared By	
Notes	

Wiring Diagram

Wiring with dimming ballast or LED driver



Ordering Information

Part #	Description
BRI823-B-D	Sharkward 120-277V 0-10V PIR Sensor