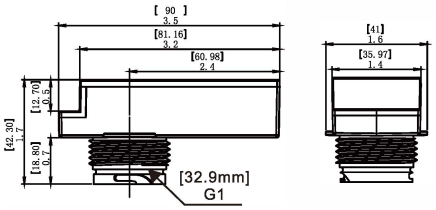
■ Line Voltage Passive Infrared Fixture
Integrated Outdoor Sensor BRI823-B-D Instruction



BRI823-B-D



RC-100
(OPTIONAL)



Unit:mm/in

Product brief

The BRI823-B-D mounts in an outdoor lighting fixture and provides multi-level control based on motion and/or daylight contribution. It controls 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an Fresnel Lens, is rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles.

Technical parameters

120/277 VAC, 50/60Hz
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: 0-10 V; default 10 V
Low mode: Off, 0-9.8 V; default 1 V
Operating temperature: -40-158°F (-40-70°C)
Operating Humidity: 20-90%
IP66 for PIR LEN(top part of the sensor)
Five year warranty

⚠ WARNING

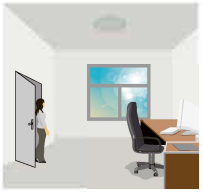
NOTE: Warm up time is 40seconds. After the sensor connects input power first time, the light will keep on 40seconds,then go to dimming to work normally.

NOTE: Factory Default Setting: 100% sensitivity, Hold on time: 10seconds, Daylight sensor is 30lux, Dimming level:30%,Dimming time: 60minitues.

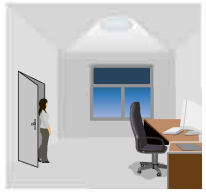
NOTE: Any setting changed by DIP Switch or remote control, the led light that sensor connect will on/off as confirm.

Corridor Function

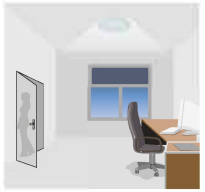
This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before switch-off. The sensor offers 3 levels of light: 100%-->dimmed light (natural light is insufficient) -->off; and 2 periods of selectable waiting time: motion hold-time and stand-by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



With suffcient 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.

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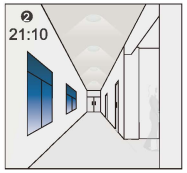
Daylight Sensor Function

Open the daylight sensor by push ⏻ when remote control is in setting condition.



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



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



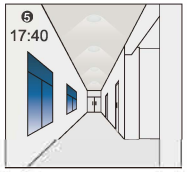
The light remains in dimming level at night.

Settings on this demonstration:
Hold-time: 30min
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 +∞)

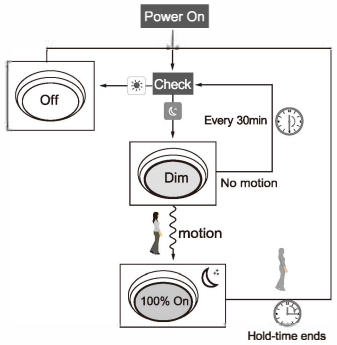
❶⇄❸ goes in cycle at night…
100% on when movement detected, and dims to 10% in long absence.



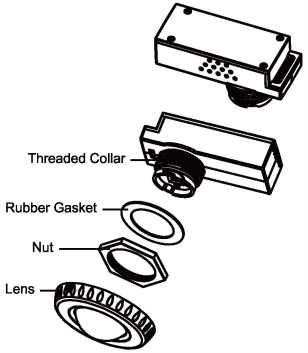
When the natural light level exceeds setpoint off to light,the light will turn off even if when the space is occupied.



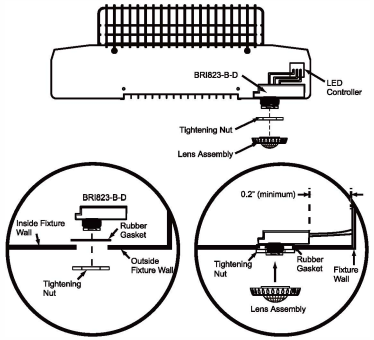
The light automatically turns on at 10% when natural light is insuffcient (no motion).



Sensor module

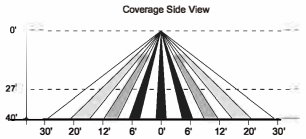


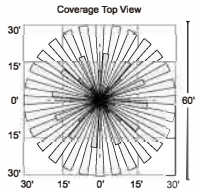
Mounting

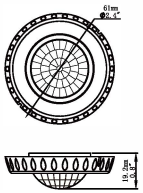


Coverage Patterns

L3



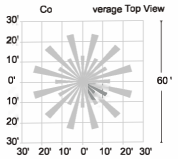


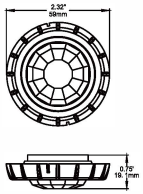


360° Coverage

L4



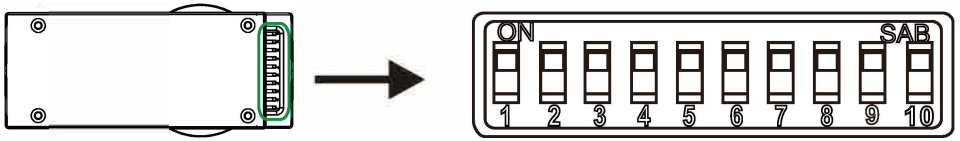




360° Coverage

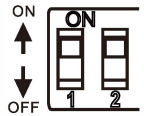
PARAMETER SETTING BY DIP SWITCH

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 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:

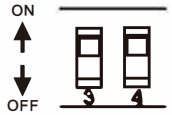


SENSITIVITY:1, 2

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 15min. 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 hold time of the corresponding table is as follows:



TIME:3, 4

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

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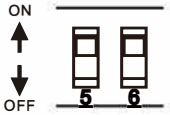
Light-control Setting

The chosen light response threshold can be infinitely from approx. 10-50lux, 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:

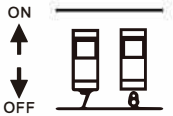


LIGHT:5, 6

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 stand-by level as follow:

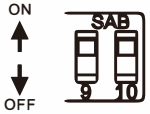


STAND-BY LEVEL:7, 8

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

Stand-by Time Setting

Switch to the on is "↑", switch to the off is "↓"; The corresponding file of switch location and stand-by time as follow:



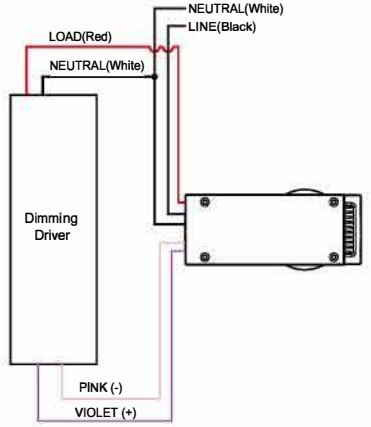
STAND-BY TIME:9, 10

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

PARAMETER SETTING BY REMOTE CONTROL IN MANUAL OF RC-100

Wiring Diagrams

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



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