

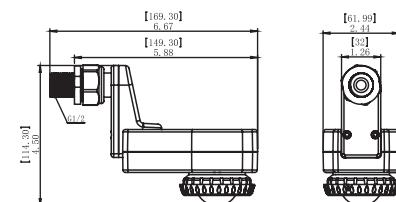
## ■ Line Voltage Passive Infrared Outdoor Sensor BRI823-X-D Instruction



BRI823-X-D



RC-100  
(OPTIONAL)



Unit:mm/in

### Product brief

The BRI823-X-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, 0-0.8 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: 60minuties.

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

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

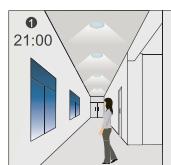
With insufficient natural light, the sensor switches on the light automatically when presence is detected.

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



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

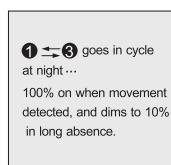


The light dims to stand-by level after the hold-time.



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 +∞)



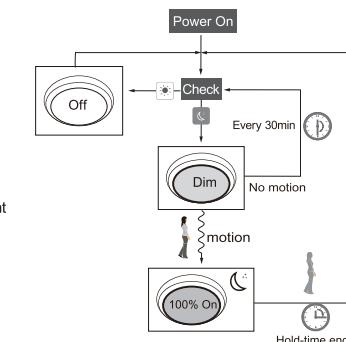
① ② goes in cycle at night ...  
100% on when movement detected, and dims to 10% in long absence.



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



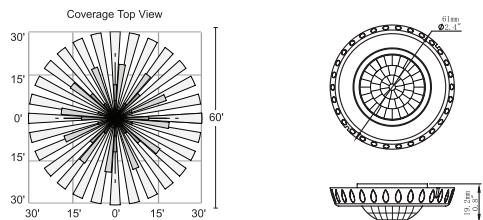
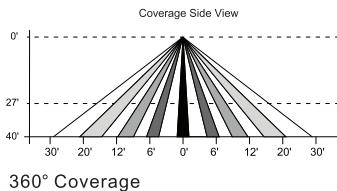
The light automatically turns on at 10% when natural light is insufficient (no motion).



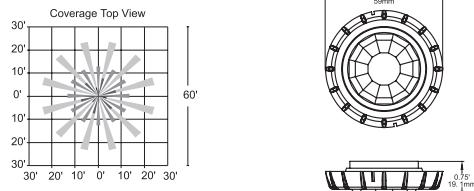
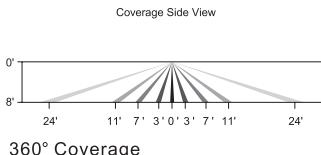
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### Coverage Patterns

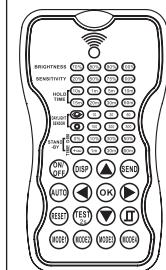
L3



L4



### Using The RC-100 Configuration Tool



	BUTTON	DESCRIPTION	BUTTON	DESCRIPTION
		Press the  button, the light goes to permanent on or permanent off mode, and the sensor is disabled. (MUST press  button to quit this mode for Setting).		Press  button, the sensor starts to function and all settings remain the same as the latest status before the light is switched on/off.
		Display the current/lastest setting parameters in LED indicators(the LED indicators will on for showing the setting parameters).		The button  is for testing purpose sensitivity only, after you choose sensitivity thresholds, then you press  button. The sensor goes to test mode(hold time is only 2s) automatically, meanwhile the stand-by period and daylight sensor are disabled. Press  button to quit from this mode.
		Press  button, all settings go back to settings of dip Switch in sensor.		Navigate to LEFT and RIGHT for choose selected parameters in LED indicators.
		Enter in the setting condition, the parameter leds of remote control will flash to be selected, and Navigate to UP and Down for choose selected parameters in LED indicators.		Confirm the selected parameters selected parameters in remote control.
		Press  button, upload the current parameters to sensor(s), the led light which the sensor connects will on/off as confirm.		Press  or . Enter in the setting condition, the parameter leds of remote control will flash to be selected, Press  for open or close smart day sensor that turn off/light automatically according to the change of natural light level.
		4 Scene modes with preset parameters which are available to be changed and saved in modes.		

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### PARAMETER SETTING BY REMOTE CONTROL IN MANUAL OF RC-100

### Wiring Diagrams

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

