LINE VOLTAGE PASSIVE INFRARED FIXTURE INTEGRATED OUTDOOR SENSOR



The BMS-S823-PIR-1-O 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 DATA

Motion Sensor	Passive Infrared (PIR)	
Input Power	120/277VAC 50/60Hz	
High Mode	0-10 V; default 10 V	
Low Mode	Off, 0-9.8 V; default 1 V	
Maximum Load	Resistive/Halogen - 800W@120V/1200W@277V Fluorescent Ballast - 660W@120V/1200W@277V Electronic Ballast (LED/CFL) - 5A@120V/5A@277V	
Detection angle	360°	
Low Bay Lens	Max.dectection radius 30ft; Max.mounting height 8ft	
High Bay Lens	Max.dectection radius 30ft; Max.mounting height 40ft	
Operating temperature	-40°F ~ +158°F (-40°C ~ +70°C)	
Operating Humidity	20-90%	
Max Coverage	200ft(60m)	
IP Rating	IP66 for PIR LEN(top part of the sensor)	

▲ WARNING

NOTE: Warm up time is 40seconds. After the sensor connects input power first time, the light will keep on 40 seconds, 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.

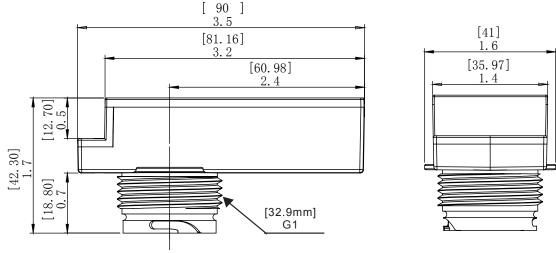
NOTE: Any setting changed by DIP Switch or remote control, the led light that sensor connect will on/off as confirm.

ORDERING INFORMATION

Model No.	Description	Input Voltage	Output	Mount
BMS-S823-PIR-1-O	Passive Infrared (PIR) Occupancy Sensor	120/277VAC	0-10V	Half built-in Mount With Enclosure for IP66
Add Suffix for Options	Description			
LS02-HB3-WH	360° Low Bay Lens, Max.dectection radius 30ft; Max.mounting height 40ft, white color			
LS02-LB4-WH	360° High Bay Lens, Max.dectection radius 30ft; Max.mounting height 8ft, white color			

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Unit:mm/in



DIMMING 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.

DAYLIGHT SENSOR FUNCTION

Open the daylight sensor by push when 1 remote control is in setting condition.

Settings on this demonstration: Hold-time: 30min Setpoint on:50lux Stand-by Dim: 10% Stand-by period: $+\infty$ Setpoint off:300lux (when the smart photocell sensor open, the stand-by time is only $+\infty$)

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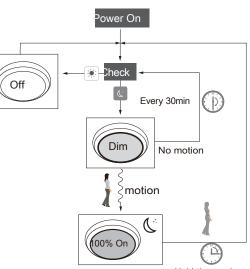
The light switches on at 100% when there is movement detected.



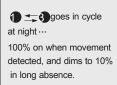
The light dims to stand-by level after the hold-time.



The light remains in dimming level at night.



Hold-time ends



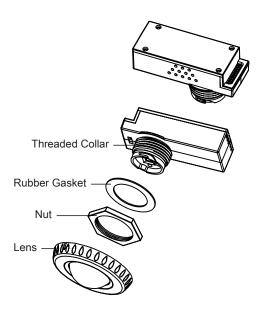
STRUCTURE



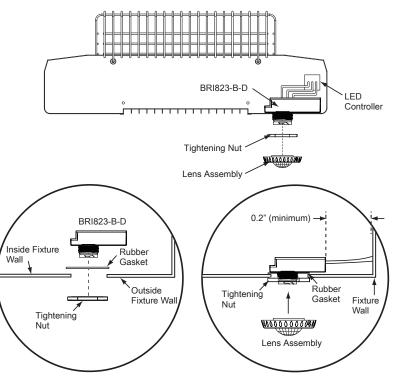
When the natural light level exceeds setpoint off to light, the light will turn off even if when the space is occupied.



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



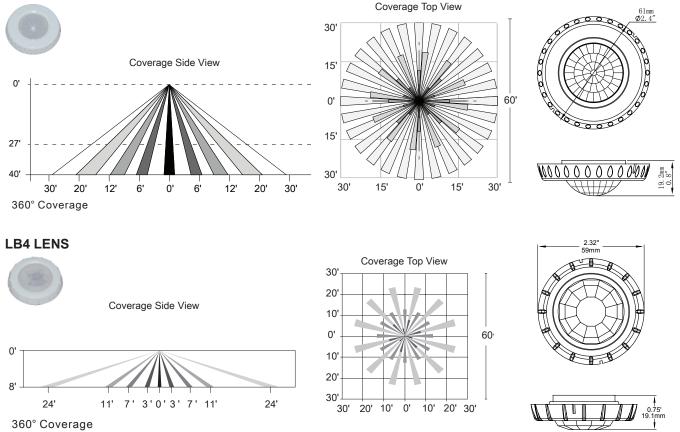
MOUNTING



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DETECTION AREA

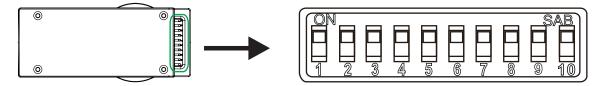
HB3 LENS



DIP SWITCH SETTING

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		
	♦ ♦ 20%		
↓ 	♦ ♦ 50%		
OFF 12	↑ ↓ 75%		
SENSITIVITY:1,2	1 00%		

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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:



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:



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:



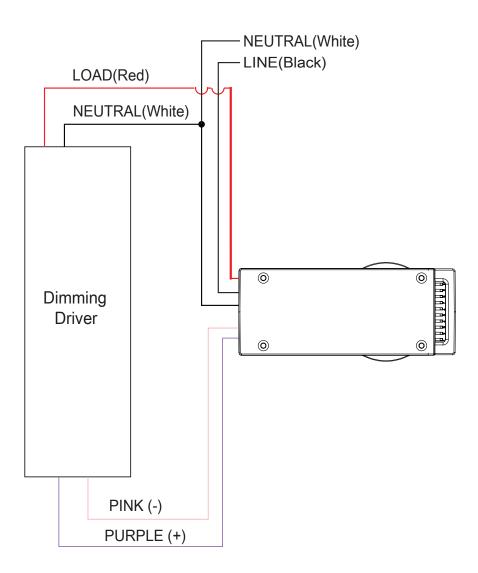
Stand-by Time Setting

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



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WIRING DIAGRAM



WARRANTY

Five year limited warranty.

Specifications subject to change without notice.