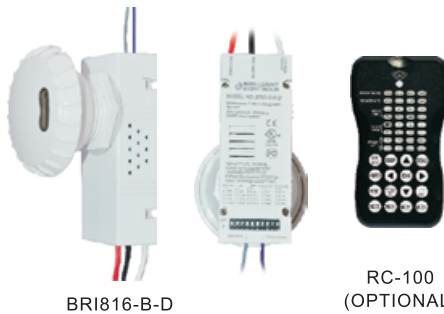


BRI816-B-D High Bay Microwave Bi-Level Sensors For Wet Locations

Hold off setpoint with automatic calibration option for convenience and added energy savings

Fully adjustable high and low dimmed light levels; optional dusk to dawn control



IP65 rated for wet locations

Multiple mounting options for easy installation



PROJECT	
LOCATION/TYPE	

Product Overview

Description

The BRI816-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, 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.

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 BRI816-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.

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.

Applications

The slim, low-profile BRI816-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 microwave 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 microwave sensor module heights ensures complete coverage for mounting heights up to 50'.

Features

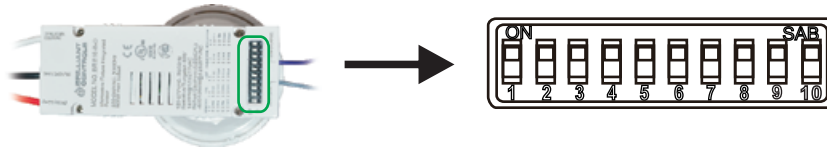
- Provides line voltage On/Off switching and 0-10VDC dimming control
- Works with ballasts or LED drivers
- High and low modes fully adjustable from 0 to 10V
- Time delay from 5 to 30 minutes
- Optional cut off delay
- Adjustable ramp up and fade down times
- High inrush stability zero crossing circuitry for reliable, long-life operation
- Latching relay is durable for all load
- Optional daylighting setpoints feature automatic calibration, or permit manual adjustment.
- Polycarbonate, flame retardant, UV resistant, impact resistant.
- UL773A and FCC

Specifications

Power supply	120-277VAC
Maximum load @ -40°F ~ 158°F (-40°C ~ 70°C)	Resistive/Tungsten - 600W@120V Ballast Electronic (LED) - 800/1200VA@120/277V
HF System	5.8GHz CW
Dim control output	0-10V, max. 25mA sinking current
Detection radius/angle	30ft @ 40ft Height/360°
Mounting height	Max 50ft
Remote range	50ft. (15m) indoor, no backlight
Humidity	Max. 95% RH
Temperature	-40°F ~ 158°F (-40°C ~ 70°C)

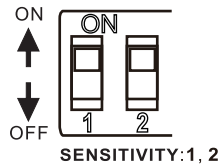
PARAMETER SETTING BY DIP SWITCH

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)

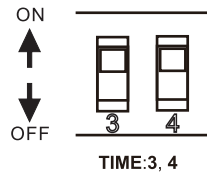
Detection range is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 40ft, pull switch to the ON position as "↑", pull switch to the OFF position as "↓", switch location and detection range of the corresponding table is as follows:



SENSITIVITY	
↓ ↓	20%
↓ ↑	50%
↑ ↓	75%
↑ ↑	100%

Hold Time Setting

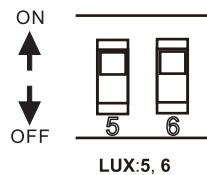
The light can be set to stay ON for any period of time between approx. 10sec and a maximum of 60min. Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test. Pull switch to the ON position as "↑", pull switch to the OFF position as "↓", switch location and detection range of the corresponding table is as follows:



TIME	
↓ ↓	10S
↓ ↑	10Min
↑ ↓	30Min
↑ ↑	60Min

Light-control Setting

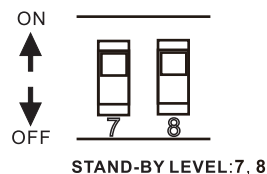
The chosen light response threshold can be infinitely from approx. 10-50lux, pull switch to the ON position as "↑", pull switch to the OFF position as "↓", switch location and light-control of the corresponding table is as follows:



LIGHT	
↓ ↓	☀ (light sensor disable)
↓ ↑	10Lux
↑ ↓	30Lux
↑ ↑	50Lux

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 LEVEL	
↓ ↓	0%
↓ ↑	10%
↑ ↓	30%
↑ ↑	50%

Stand-by Time Setting

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

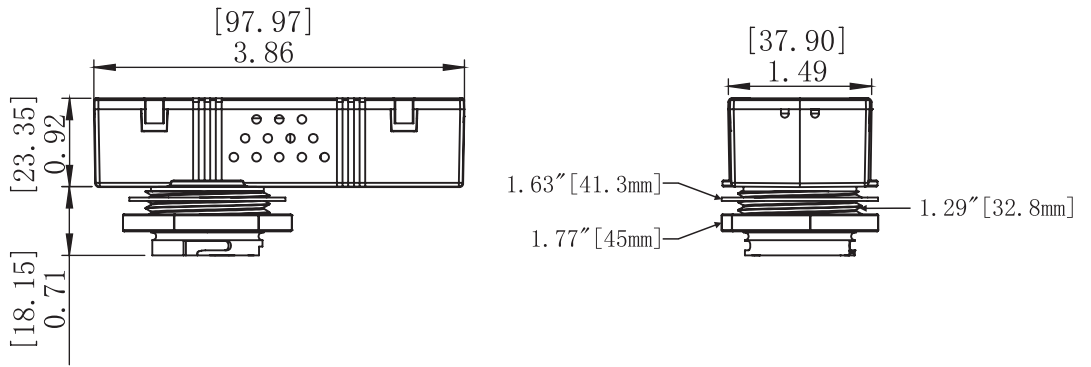


STAND-BY TIME	
↓ ↓	+∞
↓ ↑	1Min
↑ ↓	30Min
↑ ↑	60Min

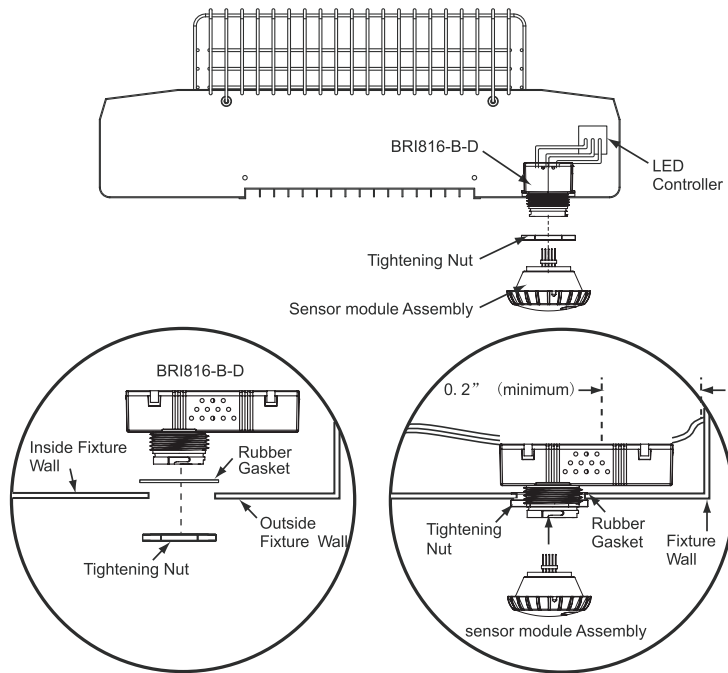
PARAMETER SETTING BY REMOTE CONTROL IN MANUAL OF RC-100

Dimensions & Mounting

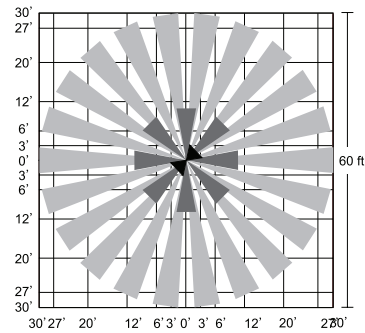
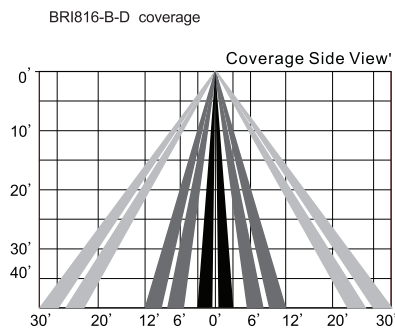
Sensor Dimensions



Sensor Mounting



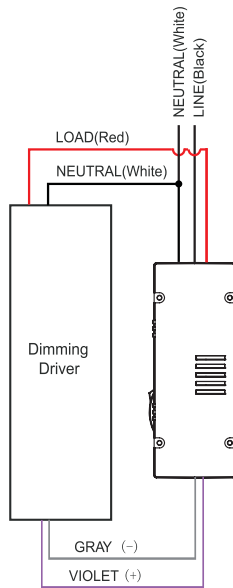
Coverage



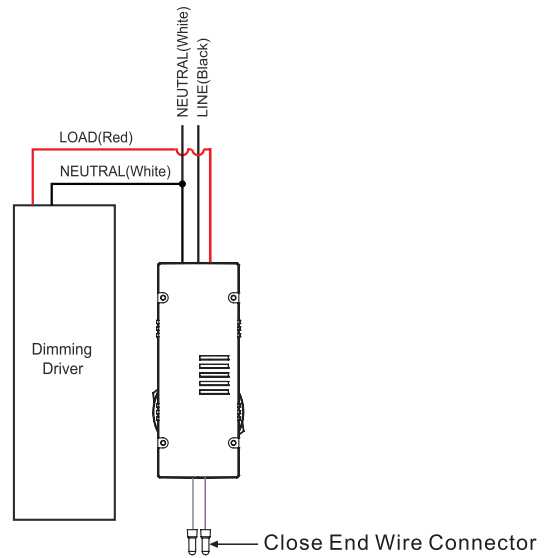
Wiring BRI816-B-D wiring with dimming ballast or LED driver.

BRI816-B-D wiring with non-dimming ballast or LED driver.

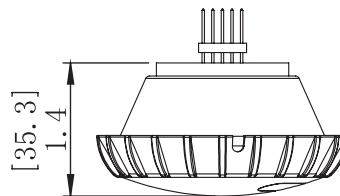
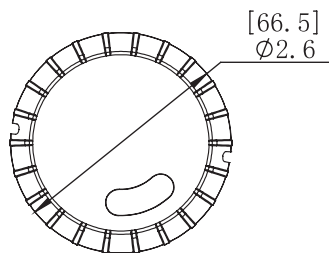
Dimming Driver



Non-Dimming Driver



Dimensions of Lens Options



Ordering Information

Catalog No.	Color	Description
<input type="checkbox"/> BRI816-B-D	White/Black	360° lens, maximum coverage 60' diameter from 8'-50' height
<input type="checkbox"/> RC-100	Black	Remote control Battery: AAA x 2