# BRI816 High Bay Microwave Bi-Level Sensors For Wet Locations

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





RC-100

IP66 rated for wet locations

Multiple mounting options for easy installation

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







BRI816

PROJECT	
LOCATION/TYPE	

# Product Overview

### Description

The BRI816 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.

### 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.

### **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

## Wireless Handheld Configuration Tool

Initial setup and subsequent sensor adjustments are made using a handheld configuration tool (BIR-100). This tool enables adjustment of parameted, is also used to initiate automatic calibration of the BRI816 ambient light level setpoint. The setpoint is used to hold the controlled lighting offor at low level when there is sufficient daylight. The wireless tool stores up to five sensor parameter profiles to speed configuration of multiple sensors.

### **Applications**

The slim, low-profile BRI816 is designed for installation inside the bottom of a light fixture body. When fully assembled and installed in an IP66-rated fixture, the the microwave sensor module parts are IP66 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 ensures complete coverage for mounting heights up to 40'.

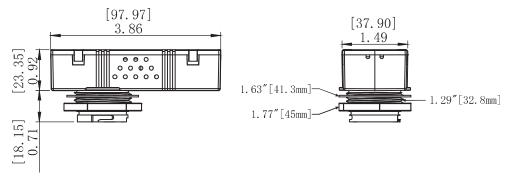
- High inrush stability zero crossing circuitry for reliable,long-life speration latching relay is durable for all load
- Optional daylighting setpoints feature automatic calibration, or permit manual adjustment.
- Polycarbonate,flame retardant,UV resistant, impact resistant.
- UL773A and FCC

# **Specifications**

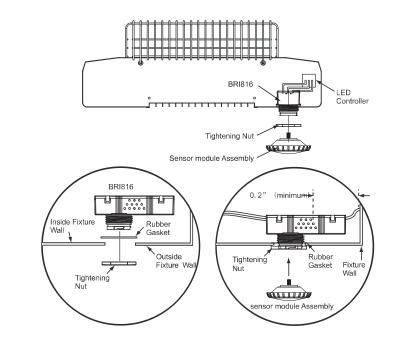
Power supply	120-277VAC	
Maximum load @ -40°F ~ 158°F (-40°C ~ 70°C)	Resistive/Tungsten - 600W@120V Ballast Electronic (LED) - 800/1200VA@120/277V	
HF System	5.8GHz CW	
Dim controloutput	0-10V, max. 25mA sinking current	
Detection radius/angle	Max meters/360°	
Mounting height	Max 50ft	
Remote range	50ft. (15m) indoor, no backlight	
Humidity	Max. 95% RH	
Temperature	-104°F ~ 158°F (-40°C ~ 70°C)	



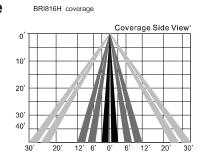
# Dimensions & Sensor Dimensions Mounting

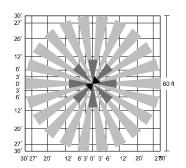


### **Sensor Mounting**



# Coverage



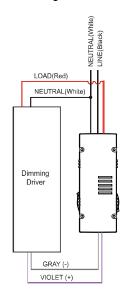




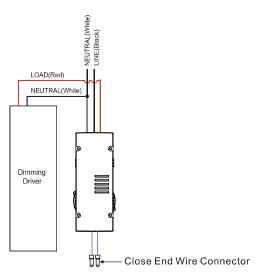
# Wiring BRI816 wiring with dimming ballast or LED driver.

BRI816 wiring with non-dimming ballast or LED driver.

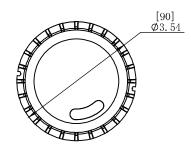
### **Dimming Driver**

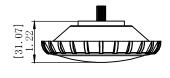


### Non-Dimming Driver



# Dimensions of Lens Options





# Ordering Information

Catalog No.	Color	Description
☐ BRI816	White	360° lens, maximum coverage 60' diameter from 8'-40' height
☐ RC-100	Black	Remote control Battery: AAA x 2

