

Project	
Notes	
Type	Date
Cat. No.	

**SPIR-OSDL/BT-PP3-DC-310**      **AleoBlue, Wireless Bluetooth PIR Occ Sensor w/ Daylight Harvesting**

**DESCRIPTION**

The SPIR-OSDL/BT-PP3-DC-310 combines occupancy sensing, daylight harvesting, 0-10V dimming and Bluetooth® mesh into a convenient, plug and play, field installable sensor. This advanced sensor brings greater controllability, energy savings, and intelligence to high bay lighting. Utilizing a snap-in quick connector, the sensor can be easily installed in the field and is compatible with many Aleo indoor luminaires, reducing lead times and labor cost.



**APPLICATIONS**

Indoor: Open offices, Individual offices, Conference rooms, Classrooms, Retail stores, Hospitals, Lobbies.



**Fixture Mount**  
PIR Occ Sensor with  
Daylight Harvesting

**Specification Features**

**Overview**

- Bluetooth® Mesh SIG
- PIR sensing with daylight harvesting
- Built-in 25mA 0-10V sinking current output
- On-board antenna
- LED indicator for motion

**Benefits**

- Cost-effective solution for energy savings
- Energy code compliance
- Robust mesh network
- Decentralized control (no single point of failure)
- Gateway-less configuration & operations

**Warranty**

5-year Limited Warranty. See warranty documentation for more information.

**Ordering Information**

Example: SPIR-OSDL/BT-PP3-DC-310

SPIR	OSDL/BT	PP3	DC	310
<b>Series</b> SPIR PIR Sensor	<b>Controls</b> OSDL/BT Wireless Bluetooth Occupancy Sensor with Daylight Harvesting	<b>Mounting</b> PP3 Plug and Play w/ snap-in quick connector	<b>Input Power</b> DC 12-24VDC Input	<b>310</b> Designator 310

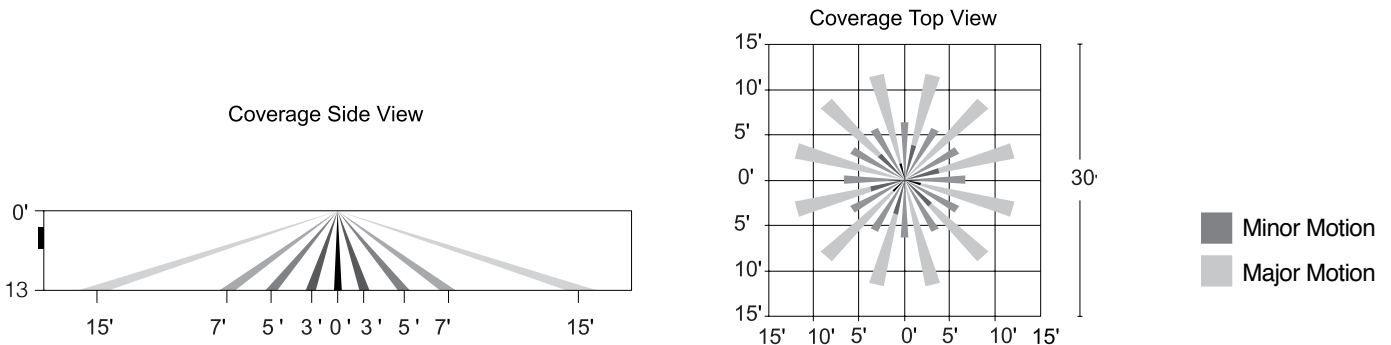
Specifications and Dimensions subject to change without notice.

**Performance Summary**

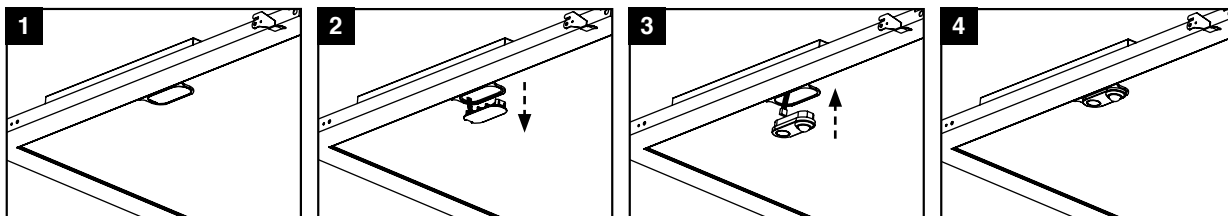
Input Voltage	10-14VDC	Detection Angle	360°
Sinking Current	25mA (max.)	Mounting Height (Max.)	13ft
Factory Reset	Button & Remote Control Reset	Bluetooth Range (Max.)	100ft*
Status Indicators	Red (network status), Green (occupancy detection)	Color	White
Wireless Protocol	Bluetooth® Mesh SIG	Warranty	5 Years Limited
Occupancy Sensing Type	Passive infrared (PIR)		
Sensing Information	Can be shared within Bluetooth® mesh network		
Operating Temperature Range	-20°C to 60°C		

\*Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

**Detection Area**



**Mounting Information**



1 Locate the sensor cap.

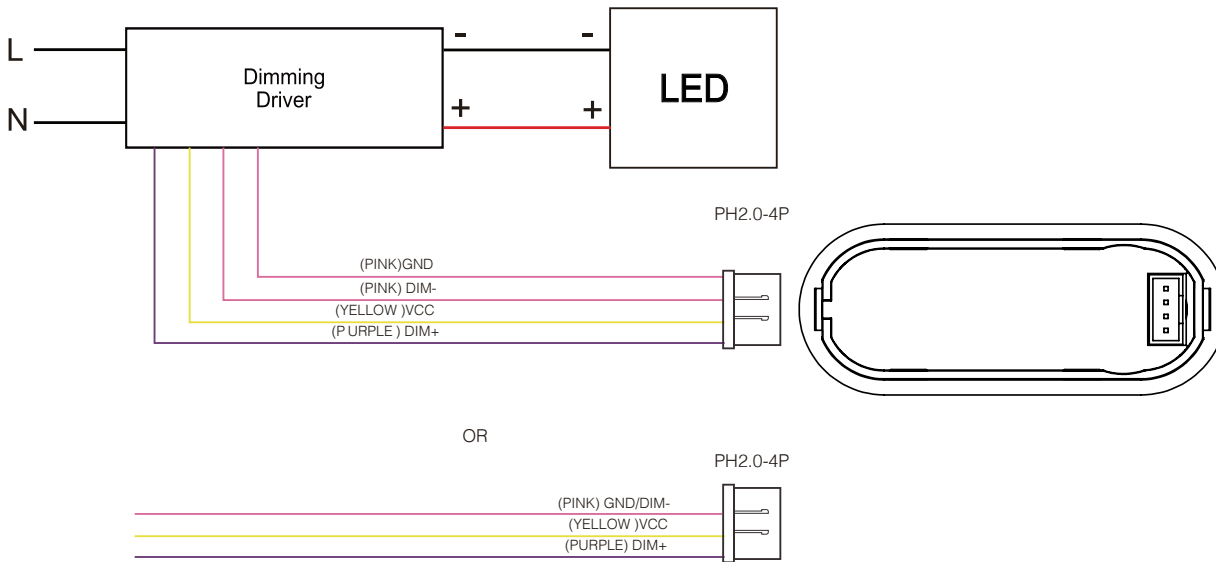
2 Remove the sensor cap. Sensor wiring harness connector is attached to the cap.

3 Mate the wiring harness connector with the connector on the sensor and push to ensure a solid connection. Push and lock the sensor into the fixture hole.

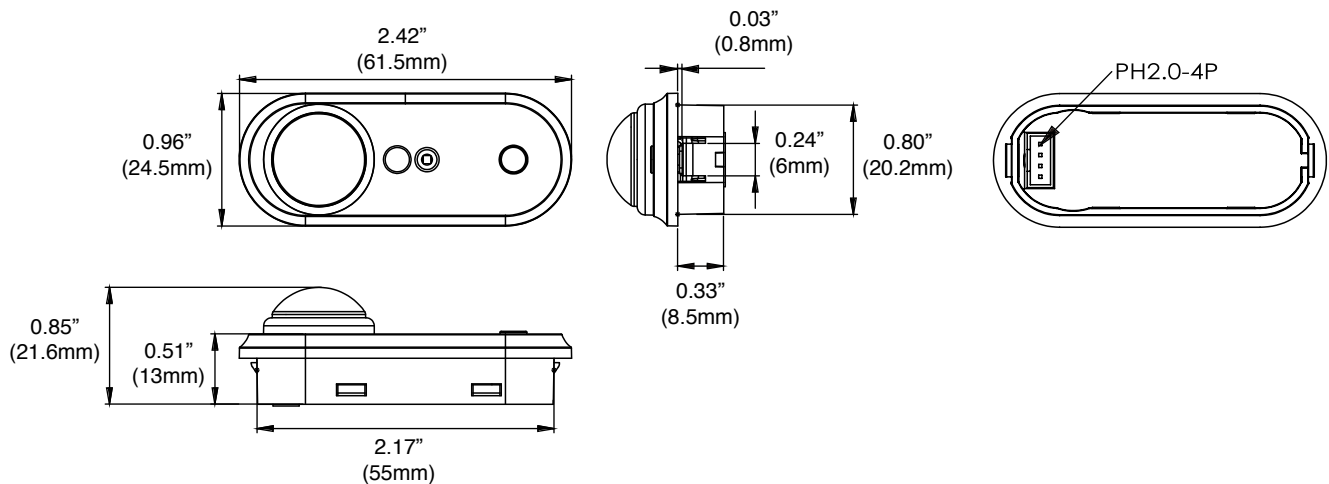
4 Secure the sensor.

Specifications and Dimensions subject to change without notice.

Wiring Diagram



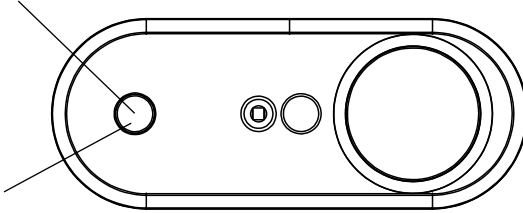
Dimensions



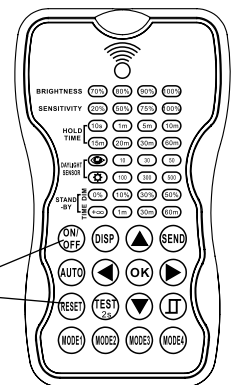
Additional Information

**Motion Indicator:** Green  
**Status Indicator:** Red

**Button Reset:** Hold it to reset the device. Luminaire quickly flashes to indicate success



**Remote Control Reset:** Point it to sensor. First press "RESET" button, then press "ON/OFF" button. Luminaire quickly flashes to indicate success.



RC100

Specifications and Dimensions subject to change without notice.



## AleoBlue Wireless Bluetooth Controls

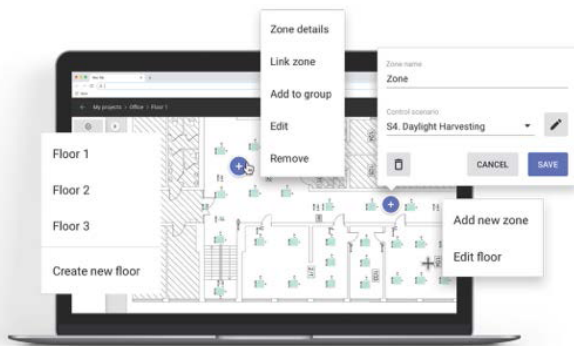


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

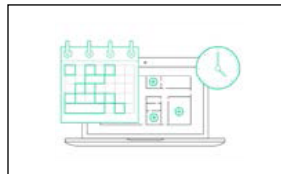
### Features and Benefits

- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- Vacancy Sensing
- Per fixture Daylight Control
- Per zone Daylight Control

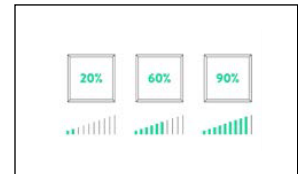


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

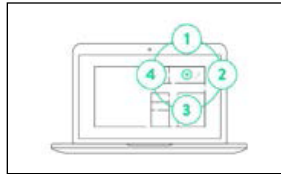
#### Scheduling



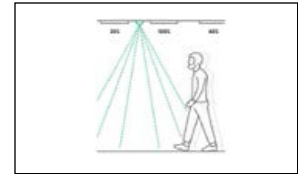
#### High and Low End Trim



#### Scenes



#### Occupancy Sensing



- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertise required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

### Bluetooth Mesh Technology Advantages



The fastest low-power communication



Scalability to thousands of devices



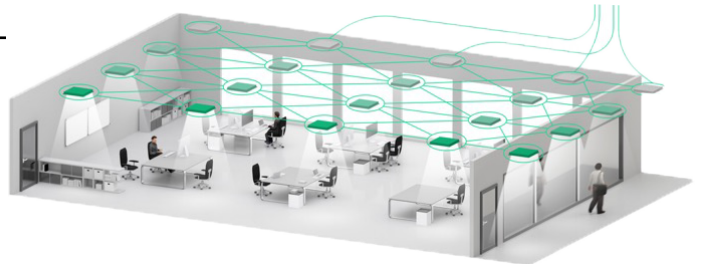
The most advanced encryption standards as well as the cutting-edge device authentication

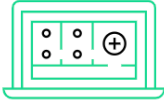


No single point of failure (no central device)



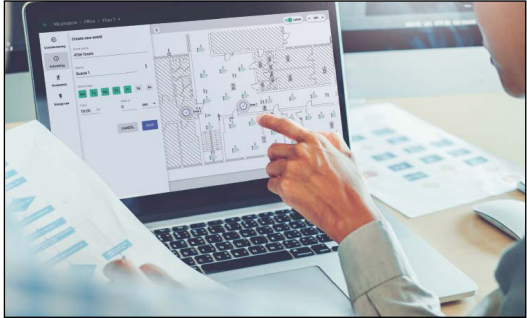
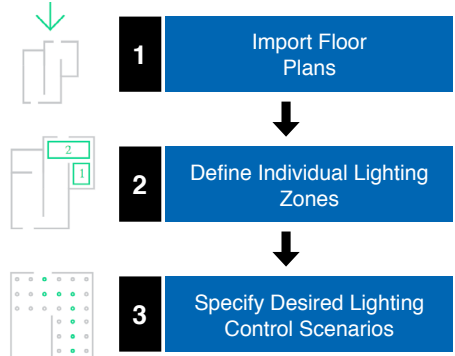
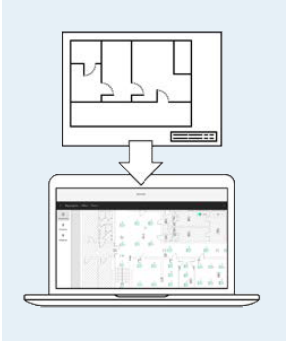
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)





**Planning**

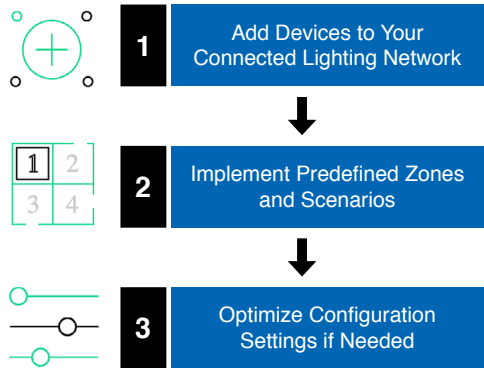
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



**Implementation**

Adding lighting devices to the Bluetooth mesh network on-site with the use of an iOS app.

Customization and calibration of lighting control parameters during and after the commissioning process. Defining scenes for specific working activities.



**Provisioning / Configurations**

The Bluetooth mesh Node is in the Unprovisioned Mode until it is provisioned by a "Provisioner", which typically is a smart phone with a Bluetooth mesh compatible app.

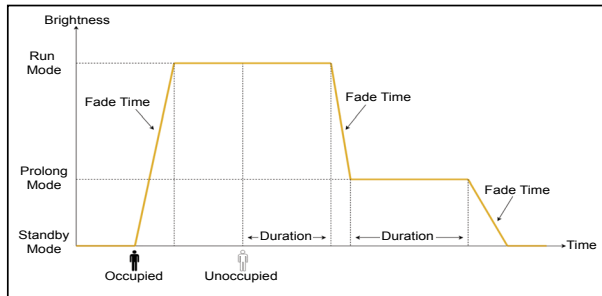
## Lighting Control Scenarios

Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.

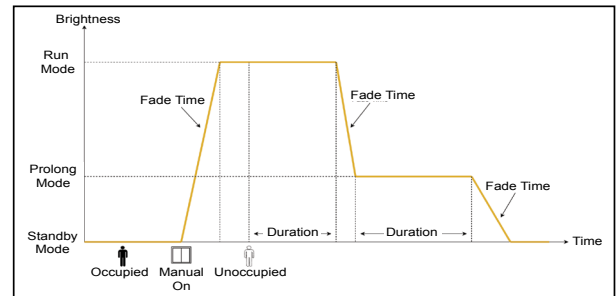


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight Harvesting	On / Off / Scenes	Auto Off	Enabled

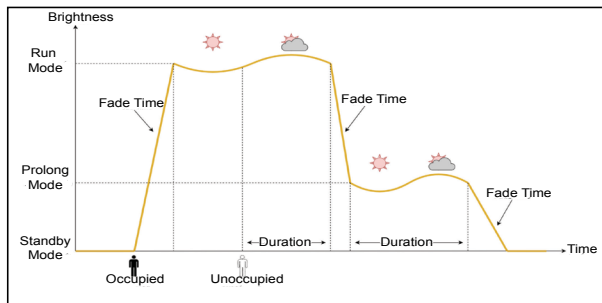
### Occupancy Scenario



### Vacancy Scenario



### Occupancy Scenario - with Daylight Harvesting



### Occupancy Scenario with Manual Override

