

SPIR-OSDL/BT-PPx-DC-30y

AleoBlue, Wireless Bluetooth PIR High Bay Occ Sensor w/ Daylight Harvesting

DESCRIPTION

The SPIR-OSDL/BT-PP1-DC-300 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 3.5mm audio jack, the sensor can be easily installed in the field and is compatible with many Aleo high bay luminaires, reducing lead times and labor cost.

APPLICATIONS

High bay applications: warehouse, distribution centers, storage, manufacturing, shops, retail.

Exterior applications: area/site lighting, wall packs



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-PP1-DC-302-BLK

SPIR	OSDL/BT	PP1	DC	300	[Blank]
Series SPIR PIR Sensor	Controls OSDL/BT Wireless Bluetooth Occupancy Sensor with Daylight Harvesting	Mounting PP1 Plug and Play w/ 3.5mm Audio Jack Receptacle PP2 Plug and Play w/ spring-loaded 3-pin	Input Power DC 12-24VDC Input	300 Designator 300 301 302* (Wireless Range 300ft)	Color Code Blank White BLK Black

Performance Summary

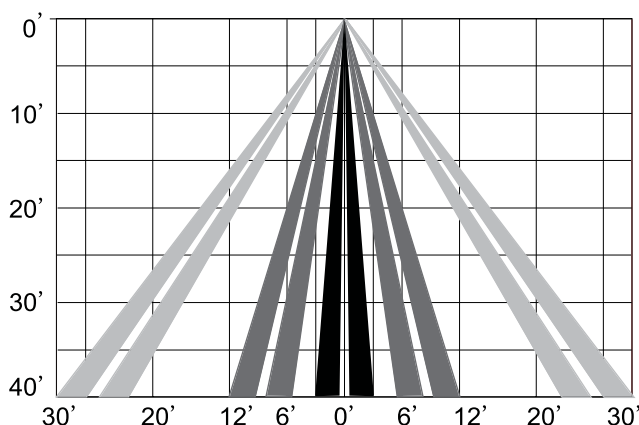
Input Voltage	12-24VDC
Sinking Current	25mA (max.)
Factory Reset	Magnet Reset
Status Indicators	Red (network status), Green (occupancy detection)
Wireless Protocol	Bluetooth® Mesh SIG
Occupancy Sensing Type	Passive infrared (PIR)
Sensing Information	Can be shared within Bluetooth® mesh network
Operating Temperature Range	-20°C to 60°C

IP Rating	IP65
Detection Angle	360°
Mounting Height (Max.)	40-feet
Bluetooth Range (Max.)	200 feet* for 300 & 301 300 feet* for 302
Color	White
Warranty	5 Years Limited

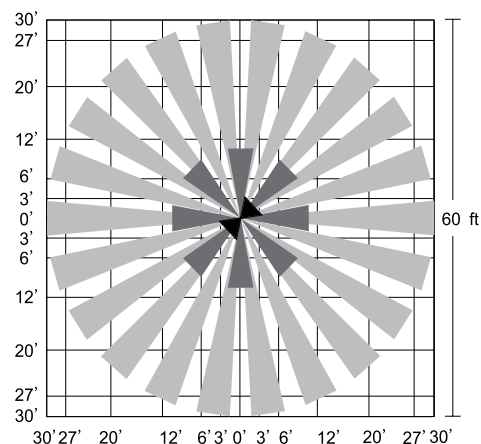
*Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

Detection Area

Coverage Side View



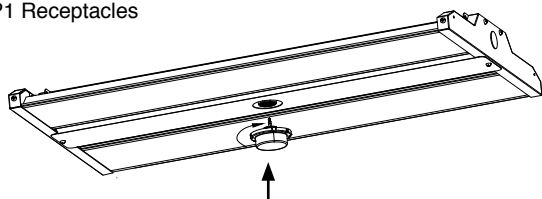
Coverage Top View



Mounting Information

Plug and Play Sensor

Compatible with Aleo luminaires that have PP1 Receptacles

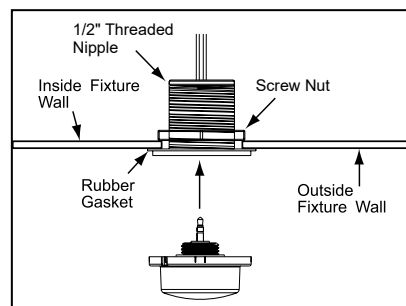


Typical Installation:

1. Remove sensor cover.
2. Plug sensor jack into port and rotate sensor clockwise until sensor base reaches the bottom.
3. Do not overtighten. Ensure sensor is fully and completely engaged with receptacle base.

Fixture Mounting

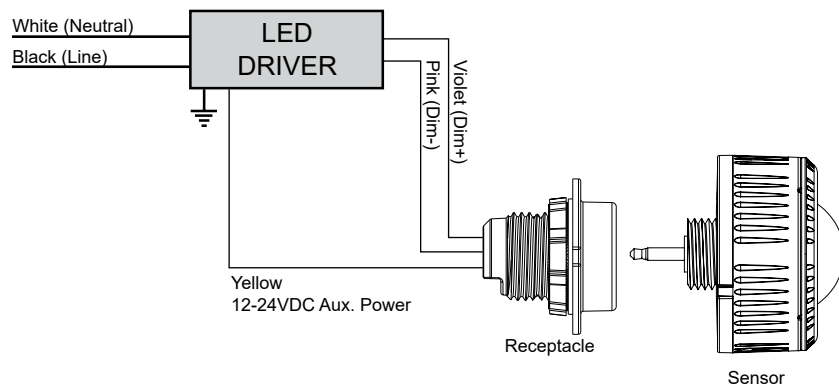
Details of sensor receptacle mounting in fixture



Specifications and Dimensions subject to change without notice.

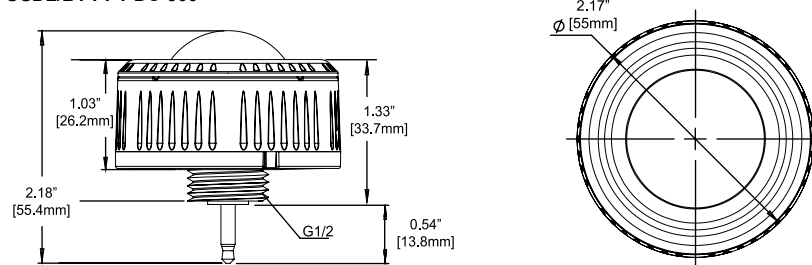
Wiring Diagram

(NOT TO SCALE)

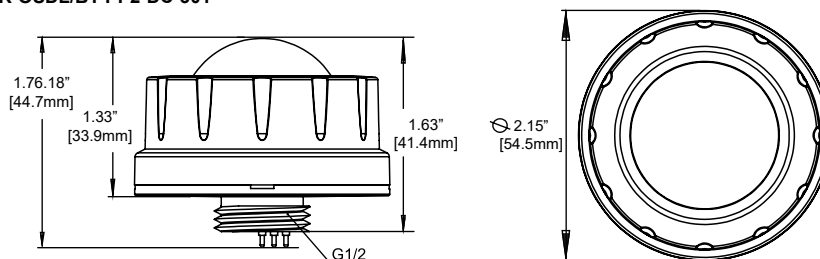


Dimensions

MODEL NO. SPIR-OSDL/BT-PP1-DC-300



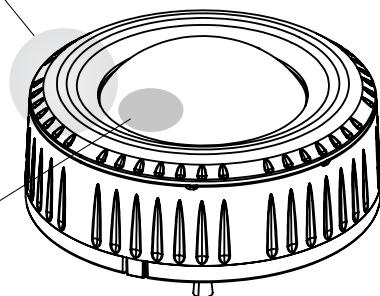
MODEL NO. SPIR-OSDL/BT-PP2-DC-301



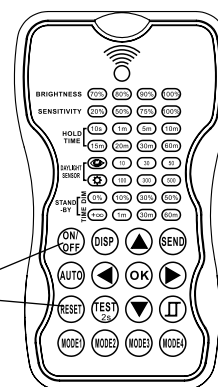
Additional Information

Magnetic Reset: Use strong magnet to touch this area for 5 seconds.

Motion Indicator: Green
Status Indicator: Red



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



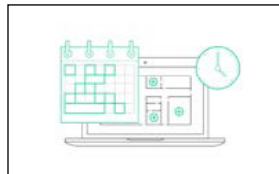
The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

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

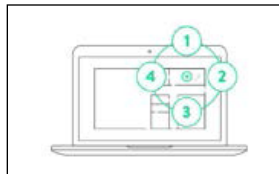
Scheduling



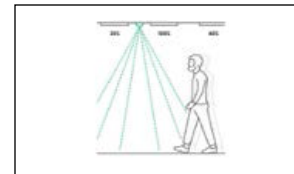
High and Low End Trim



Scenes



Occupancy Sensing



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

- 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



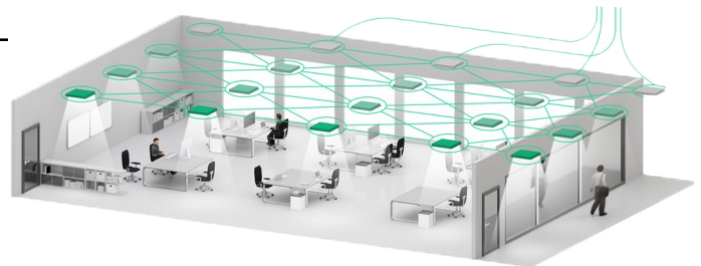
The most advanced encryption standards as well as the cutting-edge device authentication

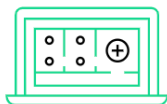


No single point of failure (no central device)



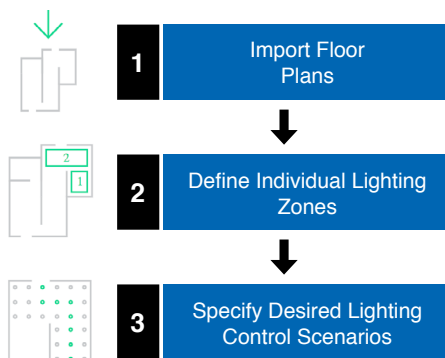
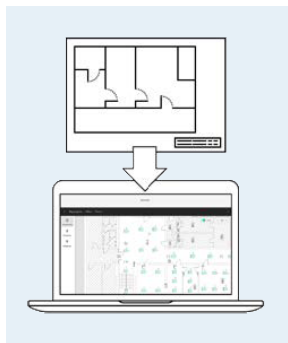
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)





Planning

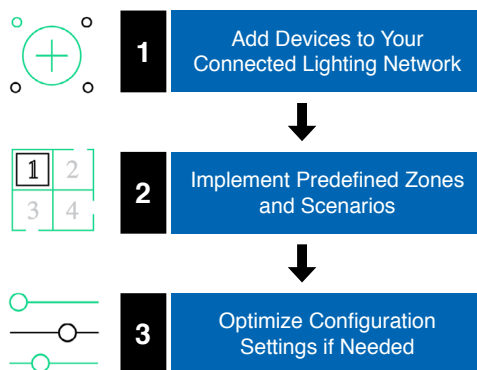
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



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.

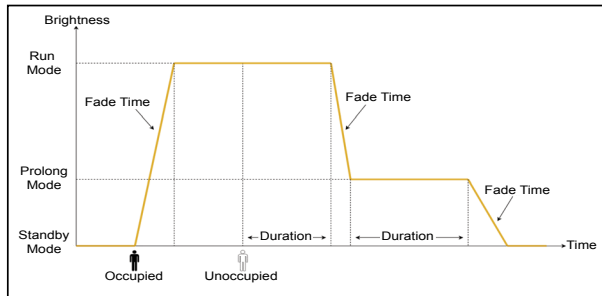
Lighting Control Scenarios

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.

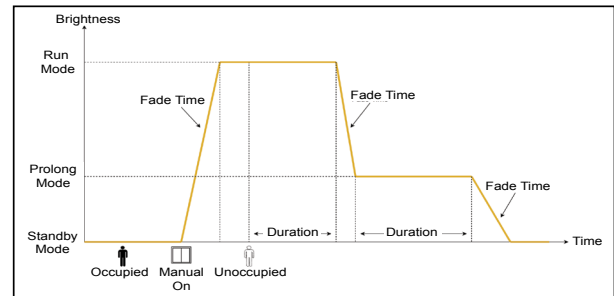


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

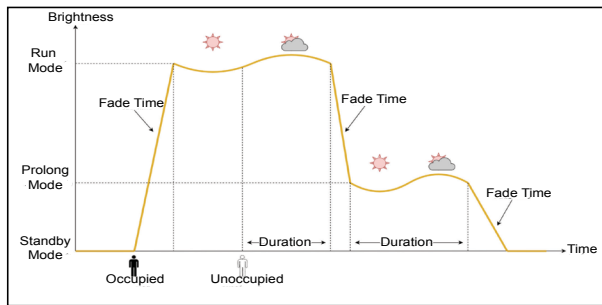
Occupancy Scenario



Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override

