

AB-SPIR-FM-DVE

AleoBlue, Wireless Bluetooth® PIR Occ Sensor w/ Daylight Harvesting

DESCRIPTION

The AB-SPIR-FM-DVE combines occupancy sensing, daylight harvesting, 0-10V dimming and Bluetooth® NLC into a convenient, plug and play, field installable sensor. This advanced sensor brings greater controllability, energy savings, and intelligence to indoor commercial 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® NLC
- 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

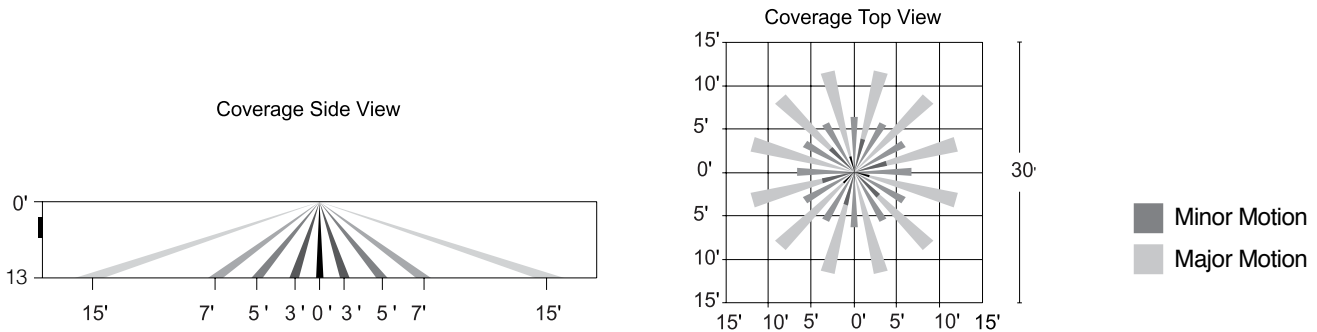
Example: AB-SPIR-FM-DVE

AB	SPIR	FM	D	V	E
Series AB AleoBlue	Controls SPIR PIR Sensor	Mounting FM Fixture Mount	Input Power D DC Power	Dimming V 0-10V Dimming	Form Factor / Connection E Snap-in w/ 4-pin Quick Connector, Oblong

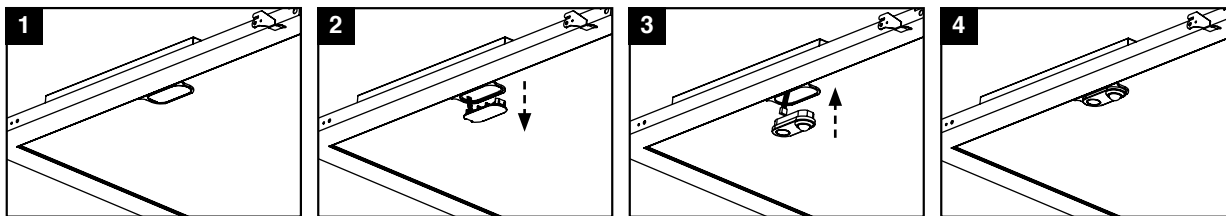
Performance Summary

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

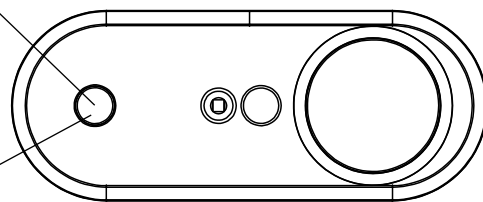
4 Secure the sensor.

Additional Information

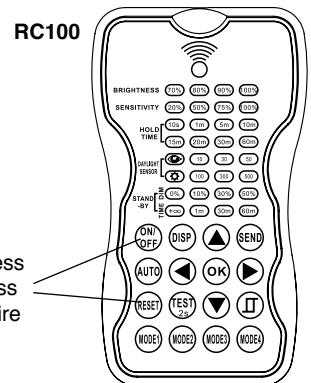
Motion Indicator: Green
Status Indicator: Red

Note: Sensor must not be covered by metallic or high density material that may block Bluetooth® radio signal.

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.

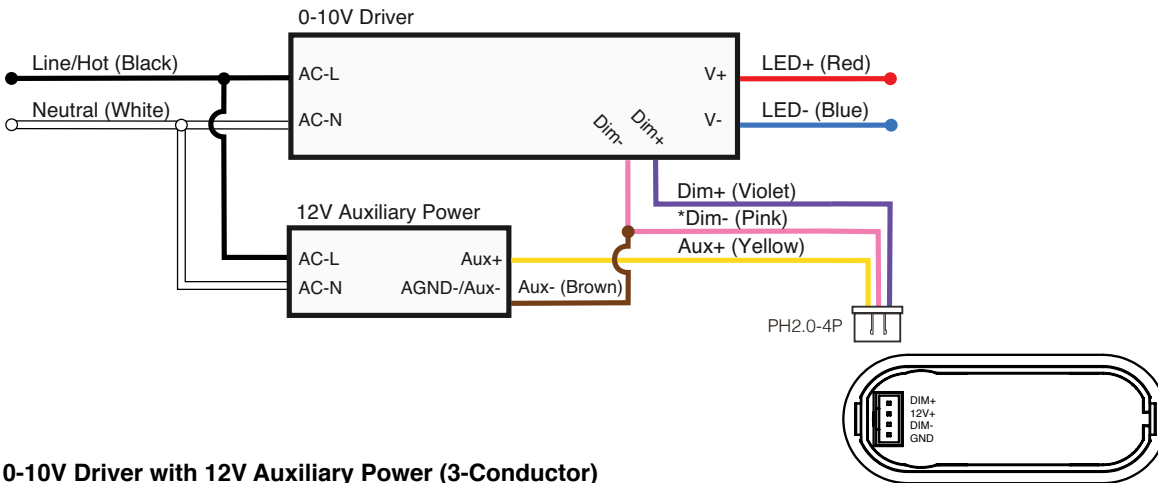


Specifications and Dimensions subject to change without notice.

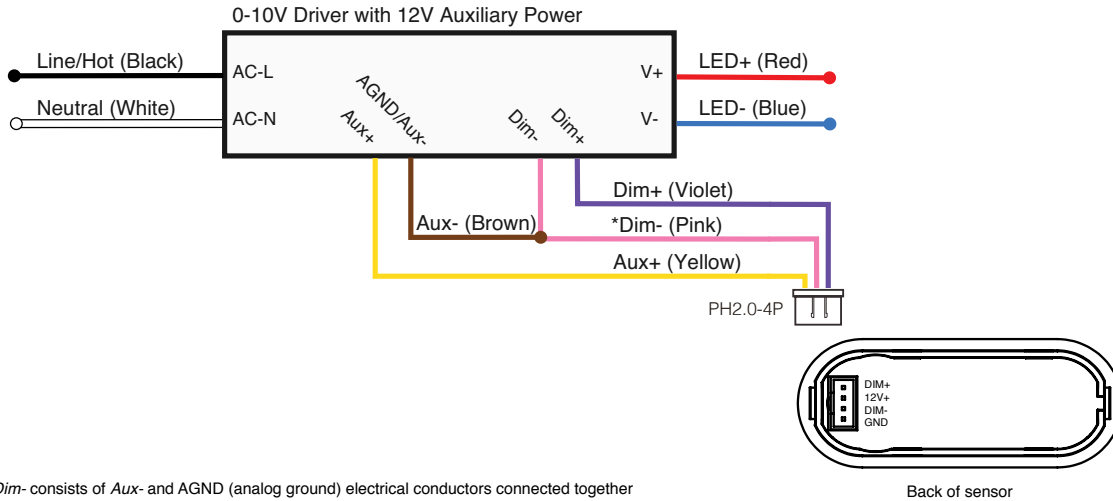
Wiring Diagram

0-10V Driver (3-Conductor)

Note: Driver must have 0-10V and Dim-to-Off function. 12V aux. power is required.

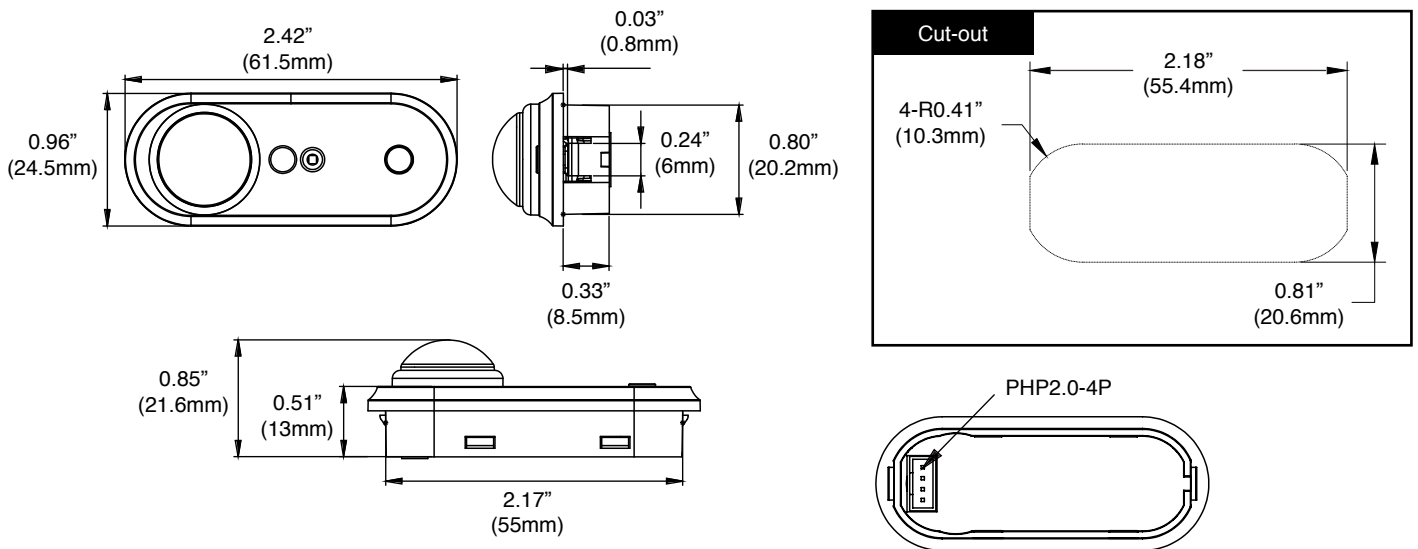


0-10V Driver with 12V Auxiliary Power (3-Conductor)



¹ Dim- consists of Aux- and AGND (analog ground) electrical conductors connected together

Dimensions



Specifications and Dimensions subject to change without notice.



AleoBlue Wireless Bluetooth® Controls

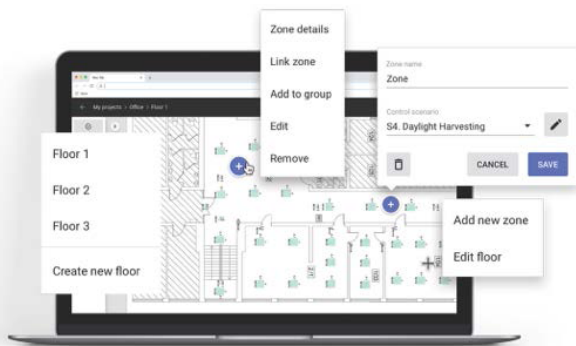


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth® NLC lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

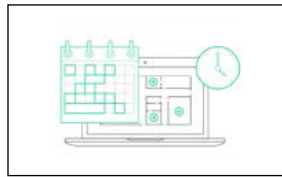
Features and Benefits

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

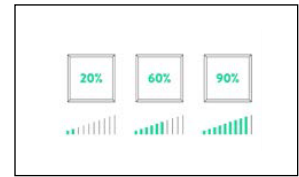


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

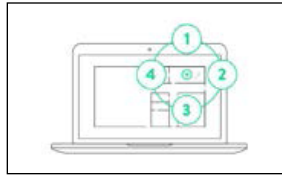
Scheduling



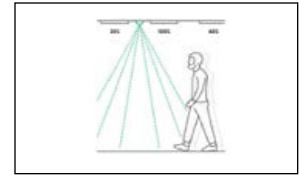
High and Low End Trim



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® NLC Technology Advantages



The fastest low-power communication



Scalability to thousands of devices



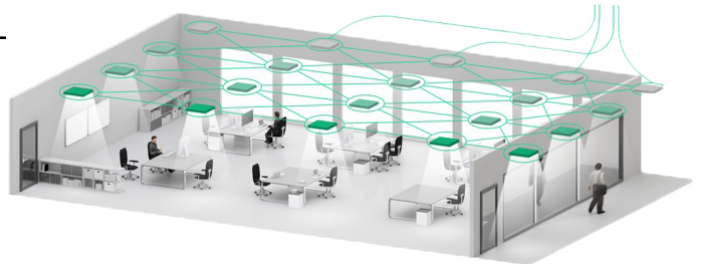
The most advanced encryption standards as well as the cutting-edge device authentication

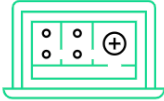


No single point of failure (no central device)



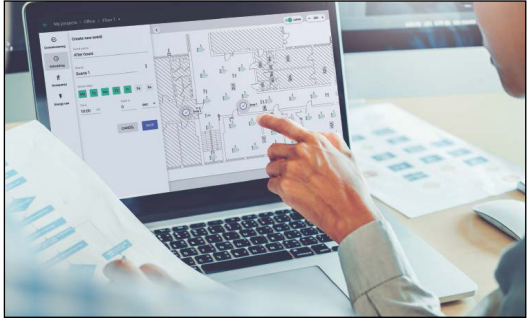
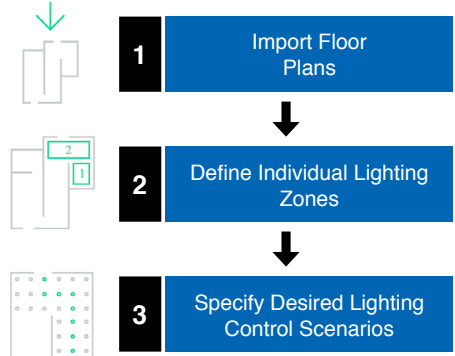
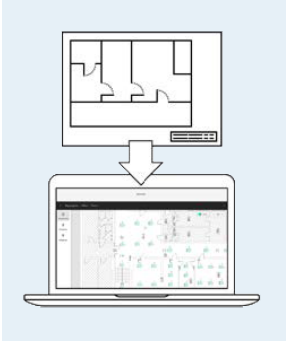
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth® 4.0 and Bluetooth® 5)





Planning

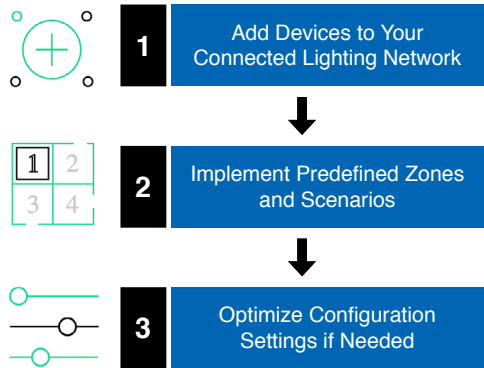
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



Implementation

Adding lighting devices to the Bluetooth® NLC 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® NLC Node is in the Unprovisioned Mode until it is provisioned by a “Provisioner”, which typically is a smart phone with a Bluetooth® NLC compatible app.

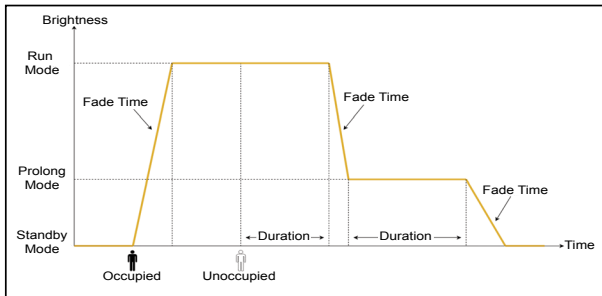
Lighting Control Scenarios

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

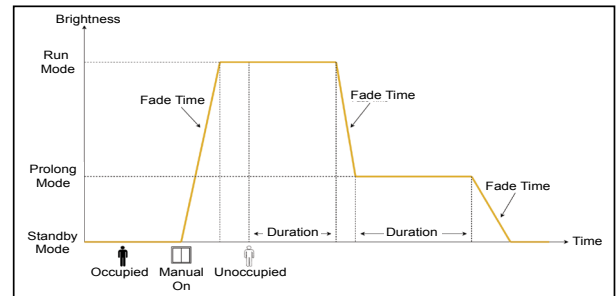


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

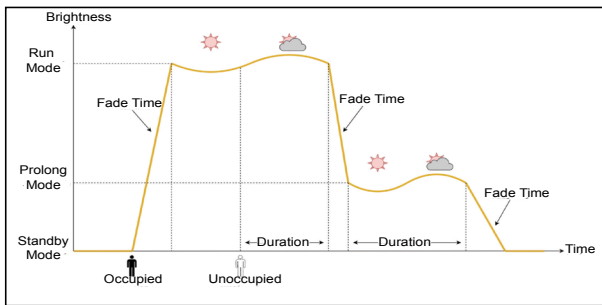
Occupancy Scenario



Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override

