



## AB-SPIR-FM-DVB

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

### DESCRIPTION

The AB-SPIR-FM-DVB 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

## 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

### WARRANTY

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

### BENEFITS

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

## ORDERING INFORMATION

### EXAMPLE: AB-SPIR-FM-DVB

AB	SPIR	FM	D	V	B	[Blank]
Series	Controls	Mounting	Input Power	Dimming	Form Factor / Connection	Finish Color
AB AleoBlue™	SPIR PIR Sensor	FM Fixture Mount	D DC Power	V 0-10V Dimming	B Twist in w/ 3.5mm audio jack, Round	Blank White BLK Black

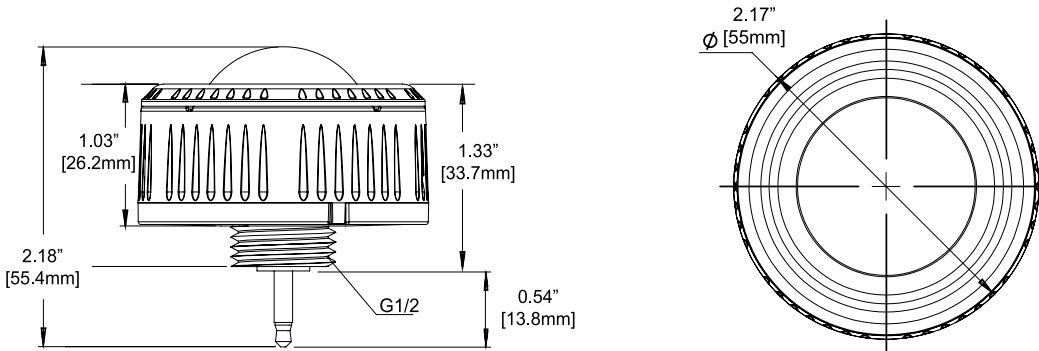
Specifications and Dimensions subject to change without notice.

PERFORMANCE SUMMARY

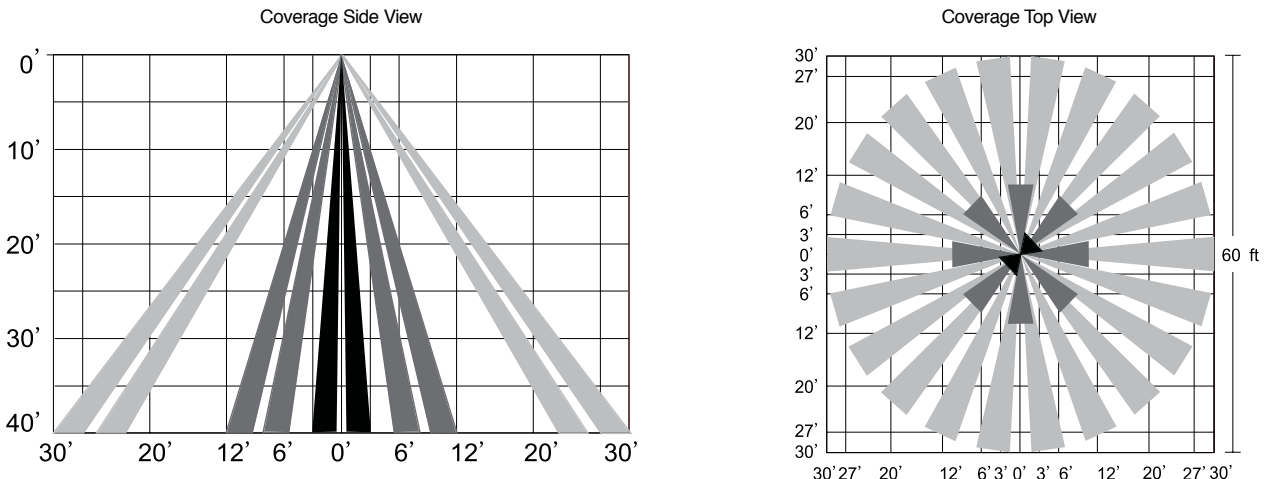
<b>Input Voltage</b>	12-24VDC	<b>Operating Temperature Range</b>	-20°C to 60°C
<b>Sinking Current</b>	25mA (max.)	<b>IP Rating</b>	IP65
<b>Factory Reset</b>	Magnet Reset	<b>Detection Angle</b>	360°
<b>Status Indicators</b>	Red (network status), Green (occupancy detection)	<b>Mounting Height (Max.)</b>	40-feet
<b>Wireless Protocol</b>	Bluetooth® Mesh SIG	<b>Bluetooth® Range (Max.)</b>	300-feet
<b>Occupancy Sensing Type</b>	Passive infrared (PIR)	<b>Warranty</b>	5-year Warranty
<b>Sensing Information</b>	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.

PRODUCT DIMENSIONS



DETECTION AREA



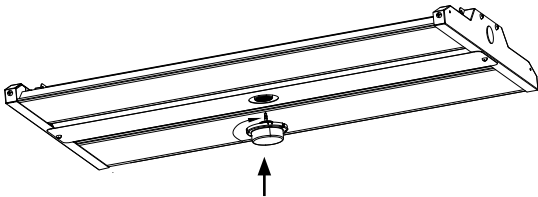
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**SENSOR INSTALLATION**

**Plug and Play Sensor**

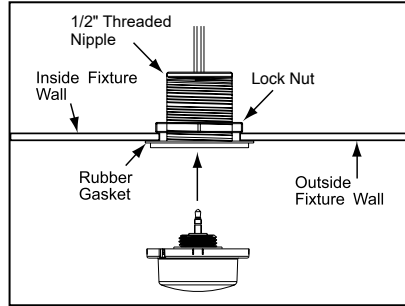
Compatible with Aleo luminaires that have PP1 Receptacles



**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.

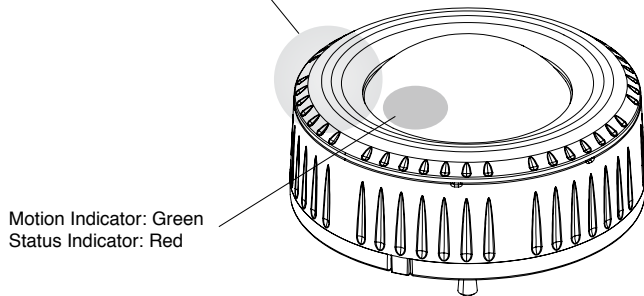
**Fixture Mounting**



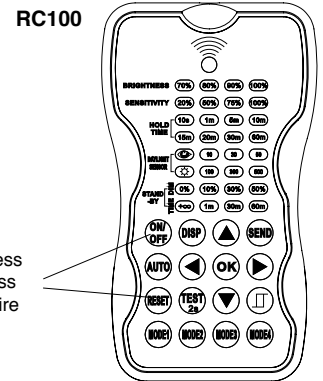
**ADDITIONAL INFORMATION**

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

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



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



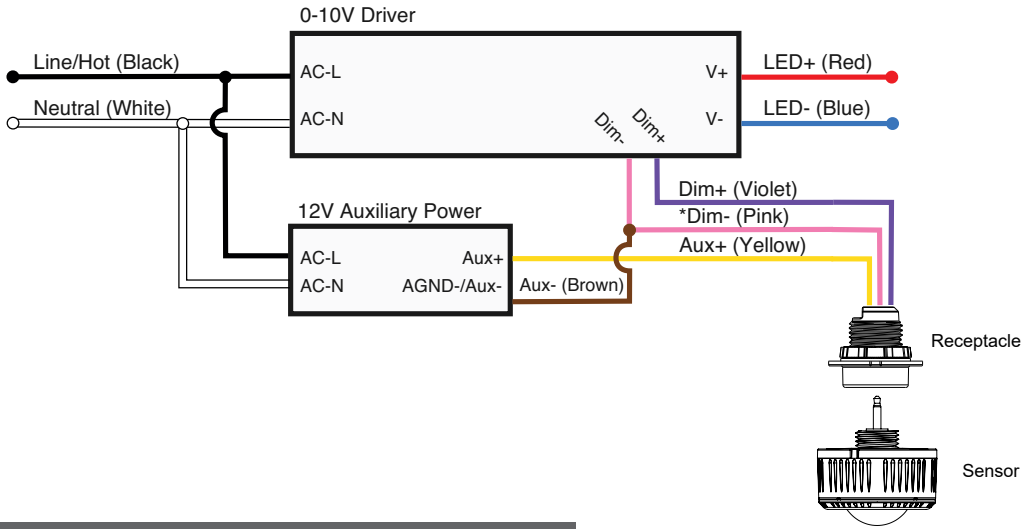
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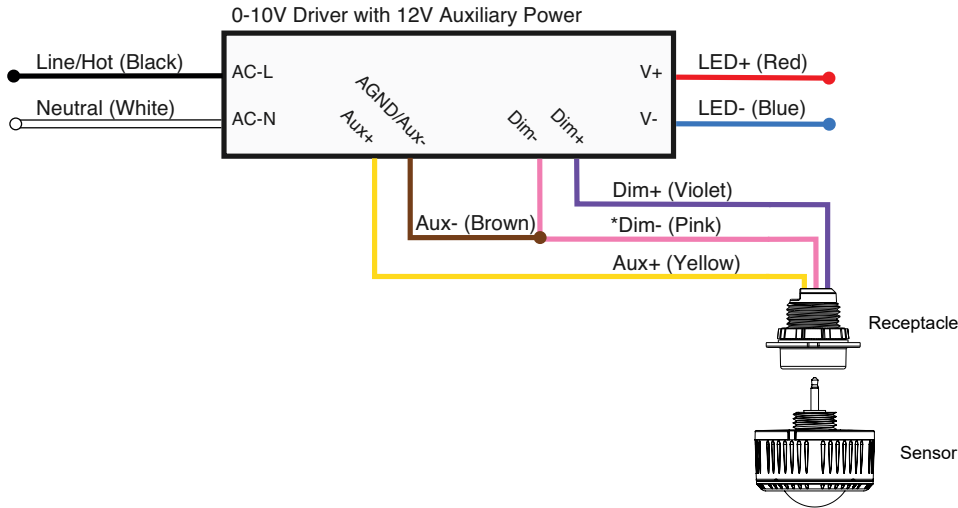
WIRING DIAGRAM

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)



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



## ALEOBLUE WIRELESS BLUETOOTH® CONTROLS

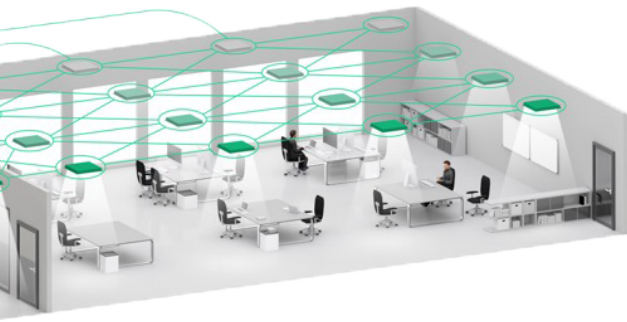


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth® NLC lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

### FEATURES AND BENEFITS

- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- High-End Trim
- LLLC (Luminaire Level Lighting Controls)
- Energy Monitoring
- 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® 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

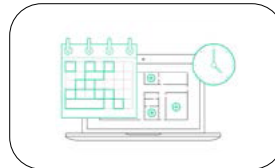


No single point of failure (no central device)

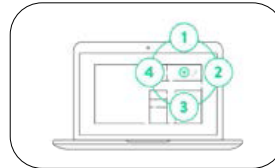


Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth® 4.0 and Bluetooth® 5)

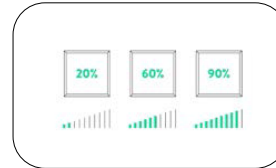
#### SCHEDULING



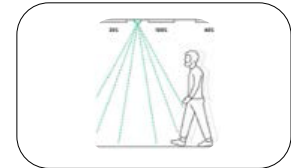
#### SCENES



#### HIGH / LOW END TRIM

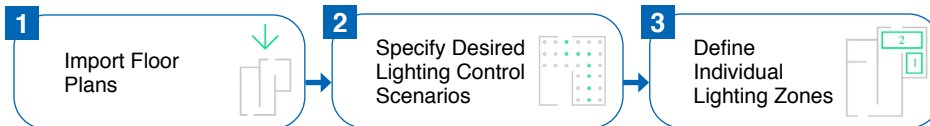


#### OCCUPANCY SENSING



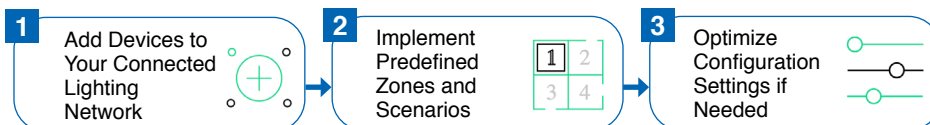
### PLANNING

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.

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