

Project	
Notes	
Type	Date
Cat. No.	

WLC/BT-AC-SBEK

Wireless AleoBlue, AC powered, Exterior Signal Booster Kit

DESCRIPTION

The WLC/BT-AC-SBEK (SK12) Signal Booster Kit allows for one channel of 0-10 dimming and high relay control. This device comes with a 5dBi long range antenna, IP65, 7.87 in. (200mm) in length with maximum range of 800 ft. WLC/BT-AC-SBEK (SK12) is controlled wirelessly via Bluetooth® Mesh technology allowing for wireless dimming of LED lighting. This controller with long range Bluetooth mesh antenna improves outdoor motion detection by facilitating the integration of mesh networked sensors. Users can deploy cost-effective, robust Bluetooth mesh control across outdoor applications of all sizes. Comes in a NEMA 4X, IP66 enclosure.

Applications: interior or exterior environments.



Wireless AleoBlue, AC powered, Exterior Signal Booster Kit



Specification Features

Overview

- Bluetooth® SIG mesh
- 1 Channel of 0-10 Dimming
- Active High Output for Relay drive
- High-End Trim, Zoning, Continuous Dimming
- Energy Monitoring and Scheduling with optional AleoBlue Gateway
- 5dBi, IP65 long range Antenna

Certification

All components have UL certification.

Warranty

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

Wireless Control Operation

AleoBlue Controls: Qualified for Bluetooth Mesh (SIG), the unit can pair with the AleoBlue iOS application to allow initial setup and subsequent adjustments. End users can program dimming levels and group multiple controllers into a Bluetooth® Mesh system for simultaneous wireless lighting control.

Enclosure

UL listed to UL 508. NEMA 4X. IP66 rated. Gray color. Metric knockouts. Polyurethane gasket. Plastic screws.

See the AleoBlue Commissioning User Manual for more information.

Ordering Information

Example: WLC/BT-AC-SBEK (SK12)

WLC/BT	AC	SBK	(SK12)
Type WLC/BT Wireless Lighting Controls Node - Bluetooth Mesh	Input Power AC AC Power	Series SBEK Exterior Signal Booster Kit	Enclosure # (SK12) 3.7" x 2.56" x 2.24" with KOs

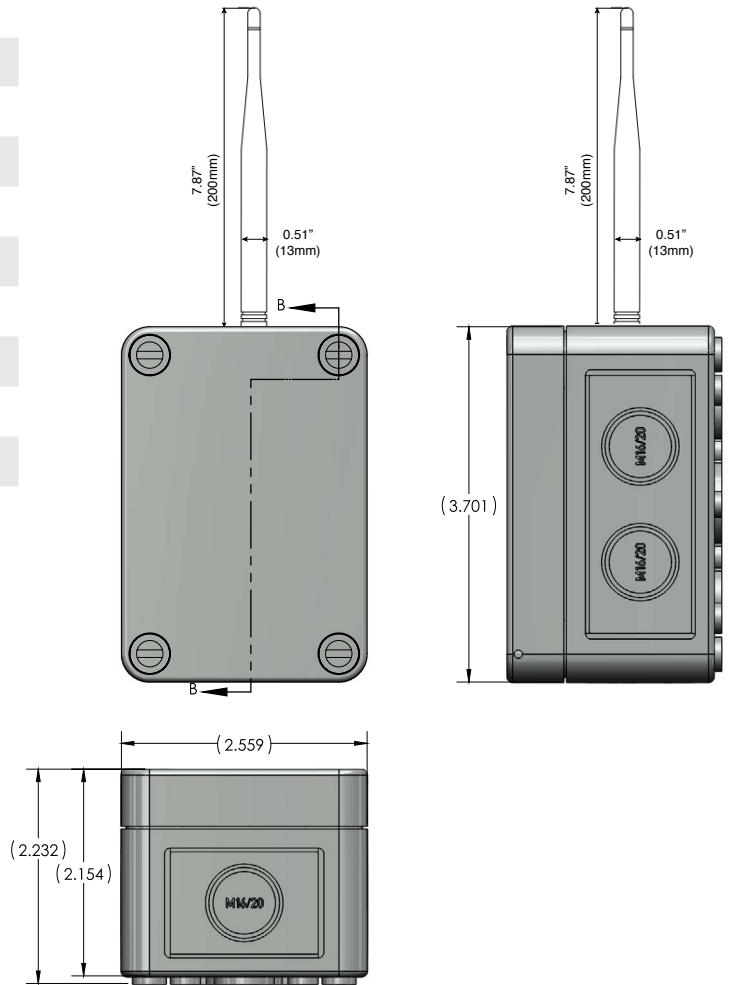
Specifications and Dimensions subject to change without notice.

Performance Summary

Input Voltage	12-24 VDC
Current Consumption	100mA
0-10V Output	100mA
Mounting	Surface Mount
Max Bluetooth Range*	800ft (240m)
Operating Temp	-30°C to 70°C
Storage Temp	-40°C to 85°C
Relative Humidity	90-95% non-condensing at 30°C
Color	White
Warranty	5 years

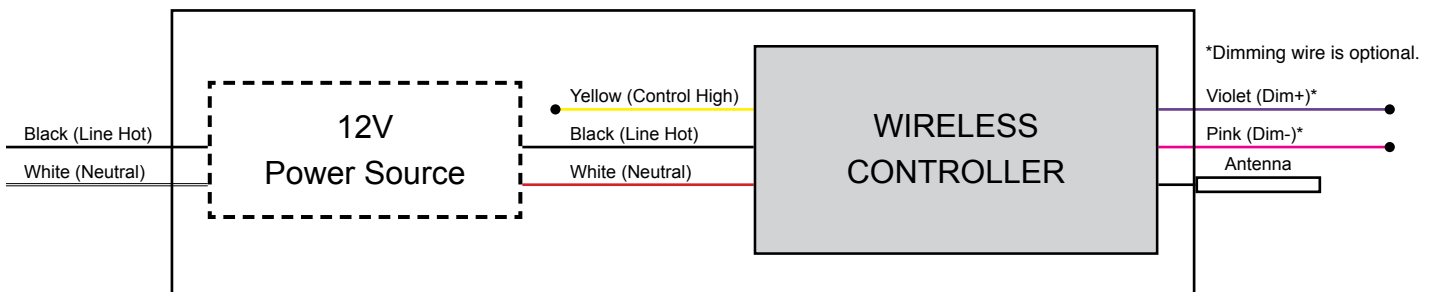
*Bluetooth Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.

Dimensions



Drawings are Not to Scale

Wiring Diagram



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AleoBlue Wireless Bluetooth Controls

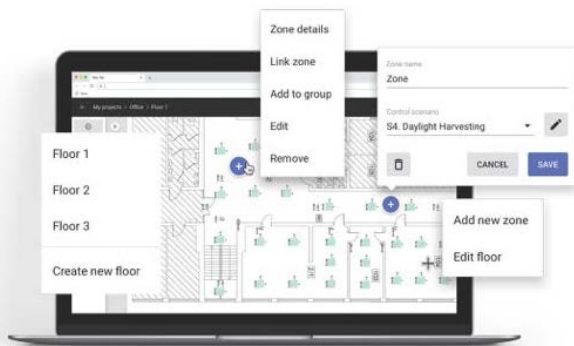


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

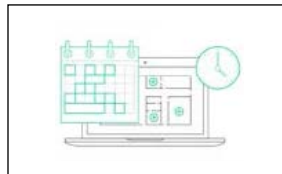
Features and Benefits

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

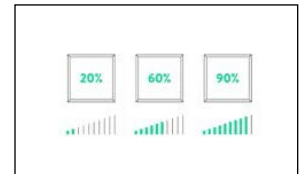


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

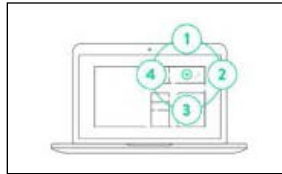
Scheduling



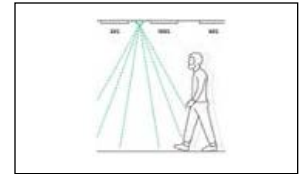
High and Low End Trim



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



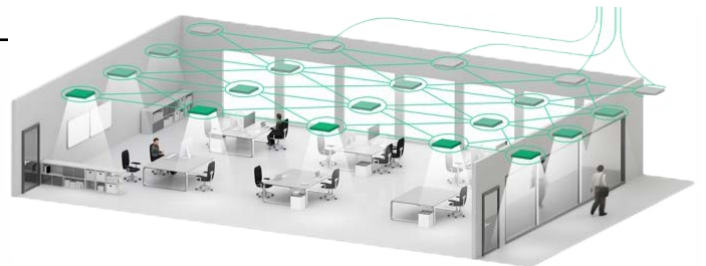
The most advanced encryption standards as well as the cutting-edge device authentication

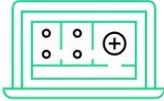


No single point of failure (no central device)



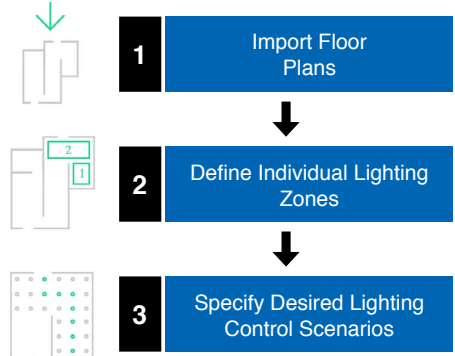
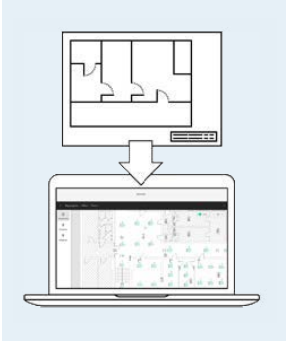
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)





Planning

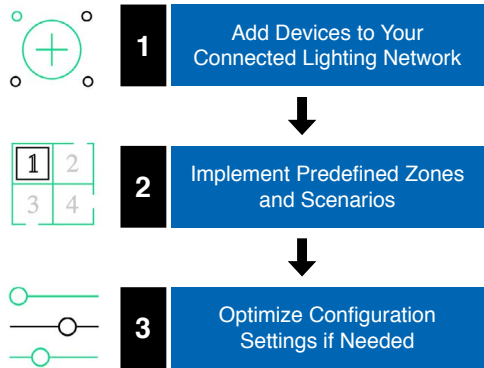
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



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.

Ordering Information



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Model: WLC/BT-AC-SBEK (SK12)

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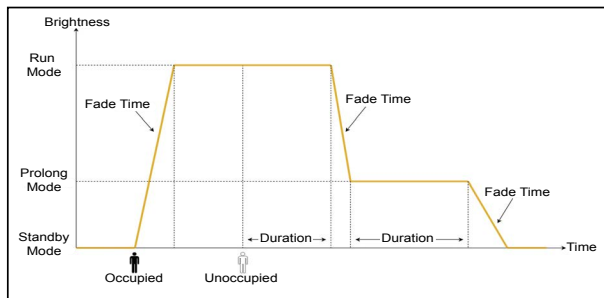
Lighting Control Scenarios

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.

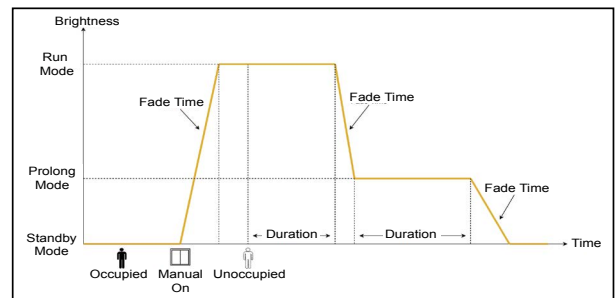


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

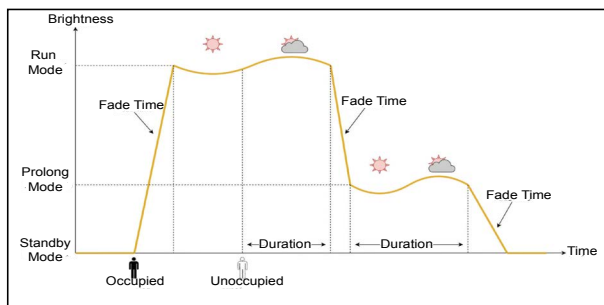
Occupancy Scenario



Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override

