

Project	
Notes	
Type	Date
Cat. No.	

WM-AC-OS/BT Wireless aleoBlue, AC powered, Wall-Box Occ. Sensor

DESCRIPTION

WM-AC-OS/BT Bluetooth mesh wall switches provide automatic lighting control for a variety of indoor applications. They can replace any standard single-pole wall switch. PIR detection is best suited for areas with (1) clear line of sight, and (2) good air circulation.

APPLICATIONS

Indoor: private office, restrooms, closets, storage, education, hospitality, corporate, self storage.



Specification Features



Overview

Features common across all models:

- PIR Sensor
- Bluetooth® SIG mesh
- Manual on/off (Wireless)
- Continuous Dimming (Wireless)
- LED status indicator light
- Mounts in any standard wall box
- Color: white

Sensor Operation

The sensor connects to a Bluetooth mesh network to control all of the lights in a specific zone. The unit also functions as a dimmer to override the pre-configured motion sensor settings.

End Users can program length of time delays, light level sensitivity, sensor range and other setting using the aleoBlue iOS app.

Certification

UL Listed. All components have UL certification.

Warranty

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

WM-AC-OS/BT

Wall Mount | PIR

Ordering Information

Example: WM-AC-OS/BT

WM	AC	OS/BT
Series	Power Source	Controls
WM Wall Mount	AC AC Powered	OS/BT Wireless Bluetooth Occupancy Sensor

Specifications and Dimensions subject to change without notice.

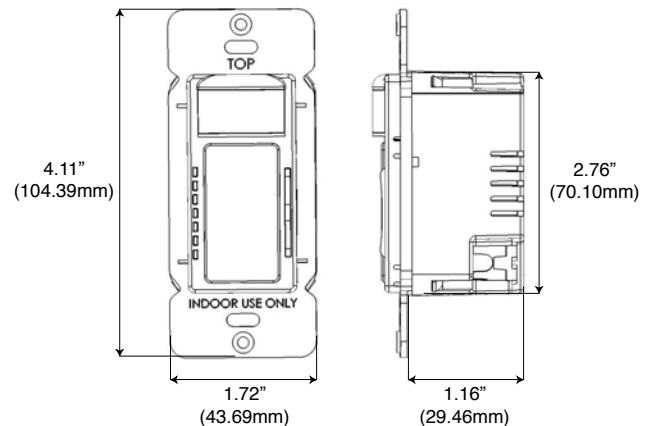
Performance Summary

Sensor Type	PIR Occupancy Sensor
Input Voltage	120-277 VAC, 50/60Hz
Power Consumption	Max 1.5W
Max Range*	40 ft @ 4ft mounting height (12.2m @ 1.2m mounting height)
Max Bluetooth Range**	30ft (9.14m)
Operating Temperature	0° to 55°C
Storage Temperature	-10° to 60°C
Relative Humidity	90-95% non-condensing at 30°C
Mounting	Standard wall box
Color	White
Warranty	5 years

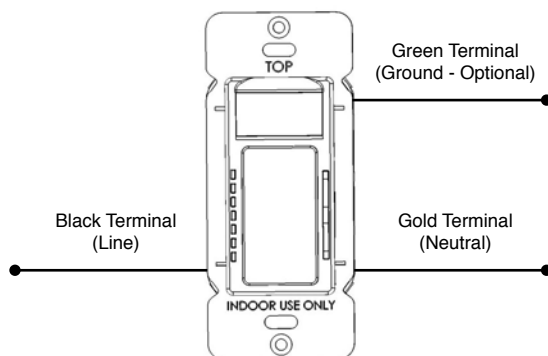
*The application/absolute range of the sensor is subject to variation because of different types of clothing, backgrounds, and ambient temperature. It is recommended to conduct testing for detection range accuracy.

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

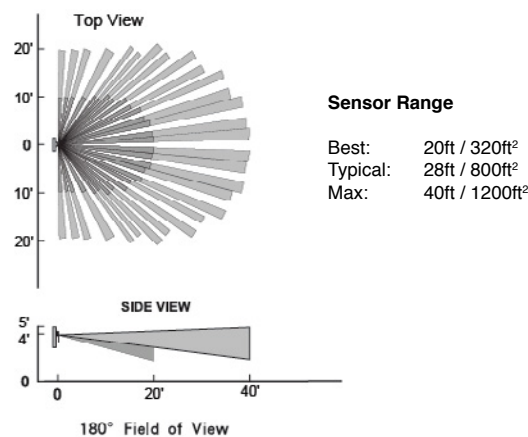
Dimensions



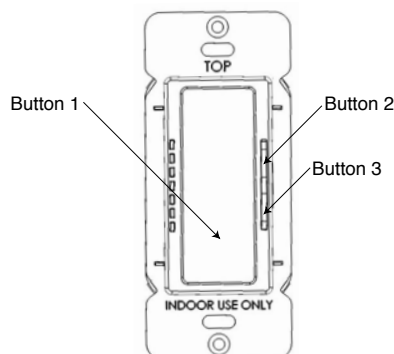
Wiring Diagram



Detection Area



Wireless Manual Control

**Button 1 for On/Off:**

Short Press - OFF
Short Press - ON

Button 2 and 3 for Dimming:

Button 2 - Dim Up
Button 3 - Dim Down

Factory Reset

Hold Both Button 1 and Button 3 for 10 sec.



AleoBlue Wireless Bluetooth Controls

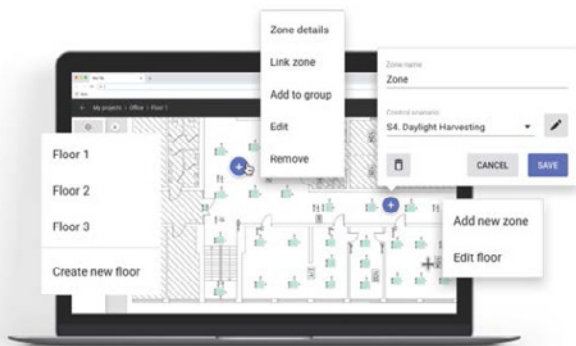


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

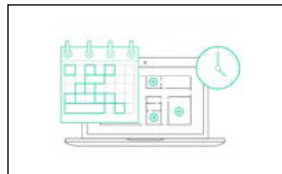
Features and Benefits

- 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

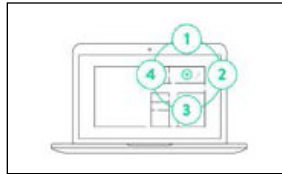
Scheduling



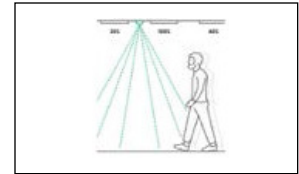
High and Low End Trim



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



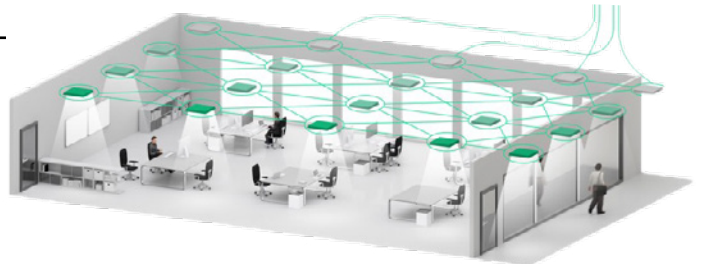
The most advanced encryption standards as well as the cutting-edge device authentication

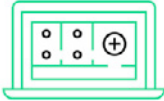


No single point of failure (no central device)



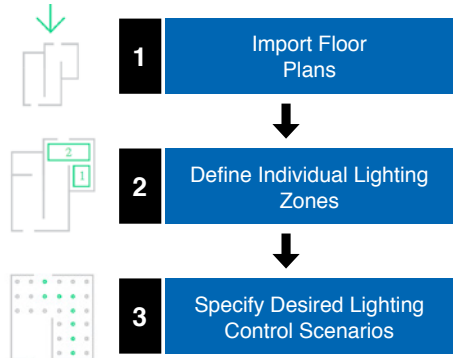
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)





Planning

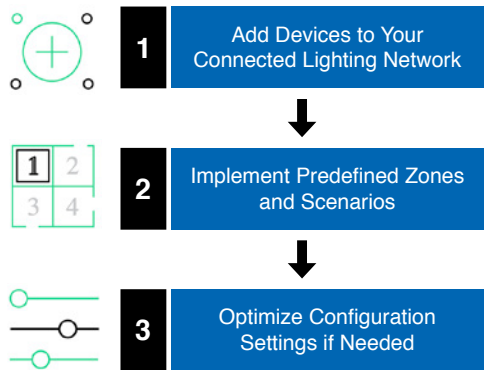
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



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



Wireless Aleo Blue, AC powered, Wall-Box Occ. Sensor
Model: WM-AC-OS/BT

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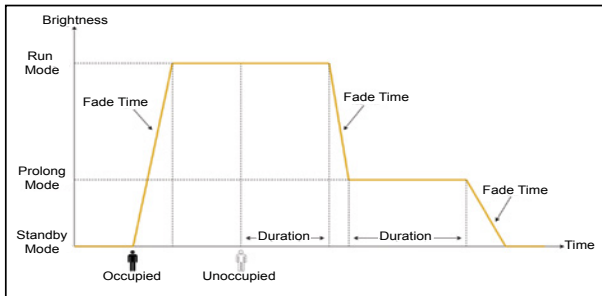
Lighting Control Scenarios

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.

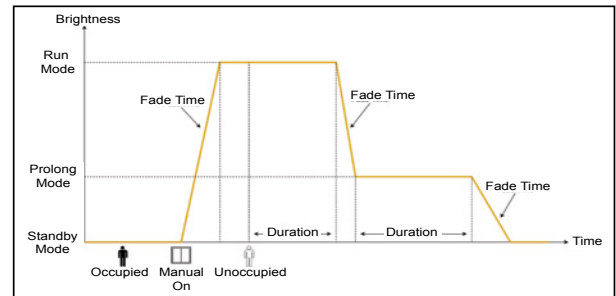


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

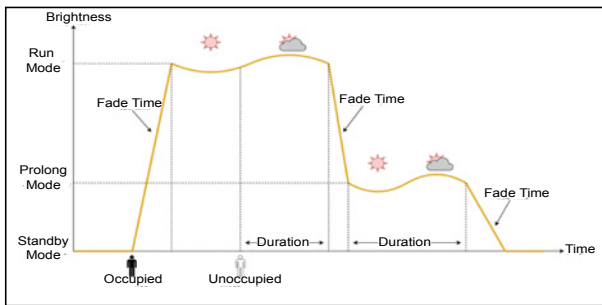
Occupancy Scenario



Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override

