



AB-SPIR-WBM-AVK

Wall-Box PIR Occupancy Sensor / Dimmer Switch

DESCRIPTION

The AB-SPIR-WBM-AVK is an AleoBlue™ wireless Bluetooth® NLC wall switch that combines passive infrared (PIR) occupancy sensing with continuous dimming control. It provides automatic lighting control for a variety of indoor applications and replaces any standard single-pole wall switch. Using Bluetooth® mesh networking, each switch communicates with other AleoBlue™ devices to extend control range and coordinate lighting across a zone.

APPLICATIONS

Indoor: Private office, restrooms, closets, storage, education, hospitality, corporate, self storage

SPECIFICATION FEATURES

OVERVIEW

- Passive infrared (PIR) occupancy sensor
- AleoBlue™ Bluetooth® SIG Mesh / NLC
- Manual On/Off (wireless)
- Continuous dimming (wireless)
- LED status / motion indicator light
- 180° coverage pattern; mounting height up to 4 ft (1.2 m)
- Mounts in any standard single-gang wall box
- Color: White

CERTIFICATION

UL Listed. All components have UL certification.

WARRANTY

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

SENSOR OPERATION

The sensor connects to a Bluetooth® NLC 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.

PERFORMANCE SUMMARY

Protocol	Bluetooth® NLC
Sensor Technology	Passive Infrared (PIR)
Standby / Operating Power	0.5W
Dimming	Continuous
Input Voltage	120-277 VAC, 50/60Hz
Sensor Technology	Passive Infrared (PIR)
Mounting Height	4ft. max.
Mounting	Standard single-gang wall box
Detection Angle	180°
Operating Temperature	32° to 104°F (0° to 40°C)
Max. Bluetooth® Range*	100ft. (30m)
Sequence of Operation (SOO)	Occupancy Sensing (Auto On/Auto Off), Vacancy Sensing (Manual On/Auto Off), Manual Control (On/Off and Continuous Dimming) (via AleoBlue™ zone profile settings)
Antenna	On-board
Color	White

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

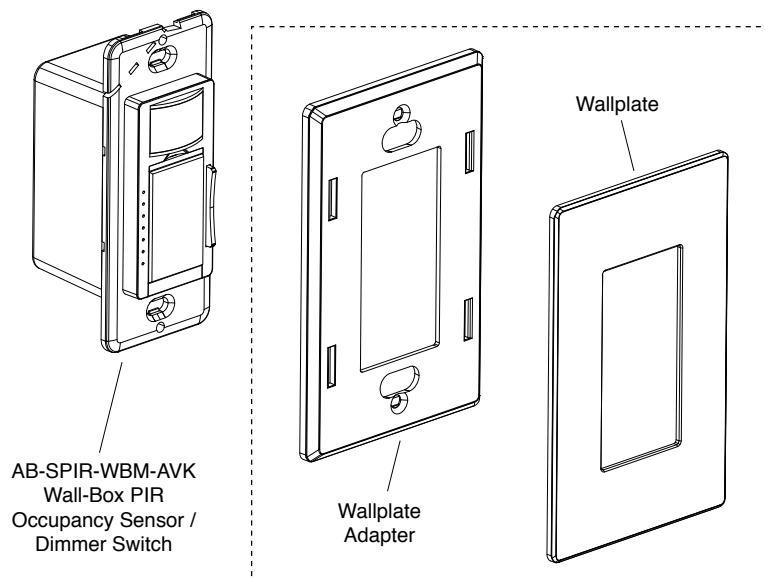
ORDERING INFORMATION

EXAMPLE: AB-SPIR-WBM-AVK

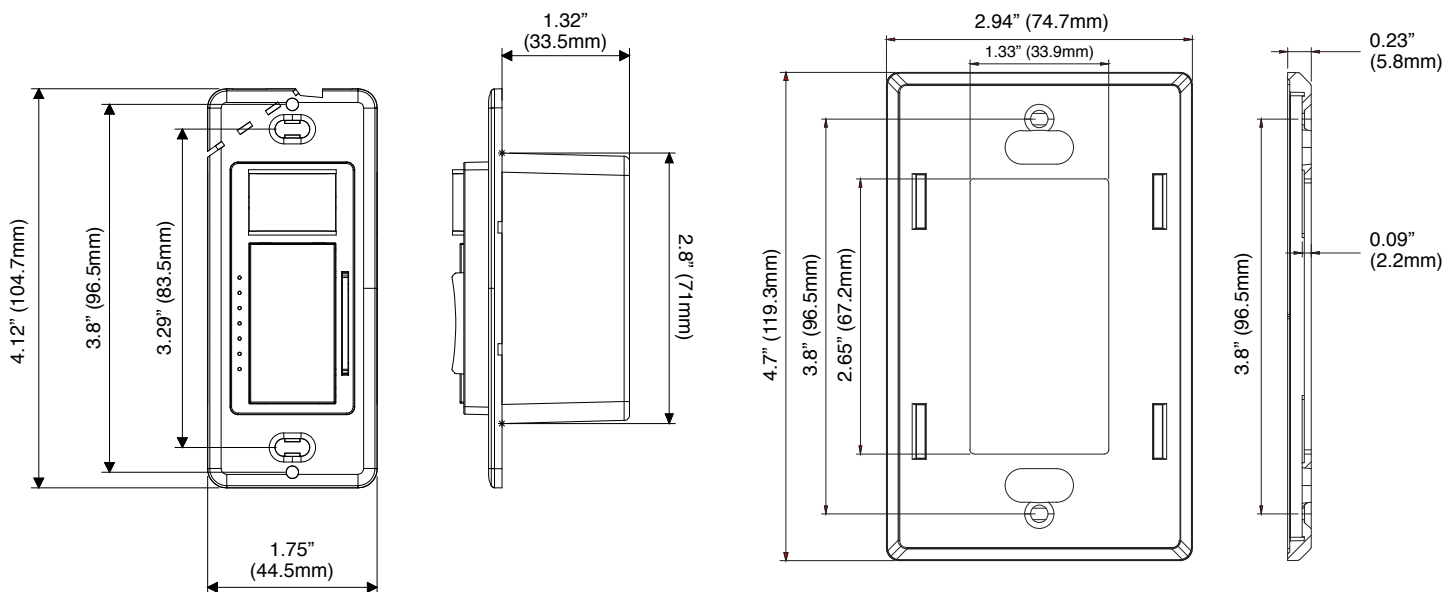
AB	SPIR	WBM	A	V	K
Communication Type / System	Sensor / Node Type	Mounting	Power	Designator	Designator
AB AleoBlue™	SPIR PIR Sensor	WBM Wallbox Mount	AC AC Power (120V-277V input)	V 0-10V Dimming	K Wall box mount w/ flying leads

Specifications and Dimensions subject to change without notice.

PRODUCT DIAGRAM



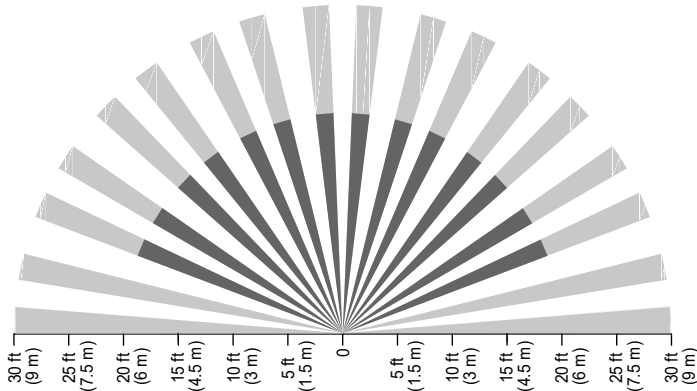
PRODUCT DIMENSIONS



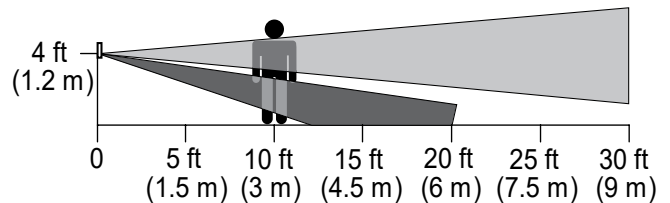
Specifications and Dimensions subject to change without notice.

DETECTION AREA

Coverage Top View



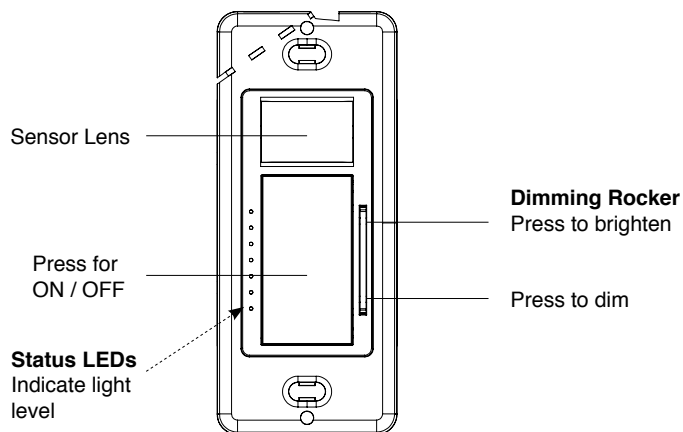
Coverage Side View



SETTINGS

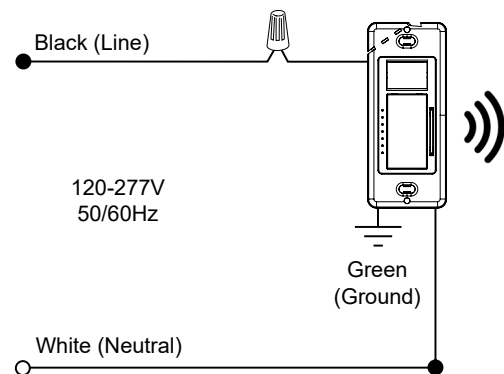
Press and hold "ON / OFF" and top of Dimming Rocker for more than 5 seconds to reset the Bluetooth® connection.

Note: Do not cover the sensor face with high density material such as steel or aluminum.

**NOTE: DEVICE MOUNTING LOCATION**

For proper operation, the device's placement is critical as it detects changes in temperature. Avoid mounting the sensor directly above a heat source, in an area where hot or cold drafts could blow on it, or where its field-of-view might capture unintended movement, such as traffic in a nearby hallway.

WIRING DIAGRAM



ALEOBLUE WIRELESS BLUETOOTH® CONTROLS

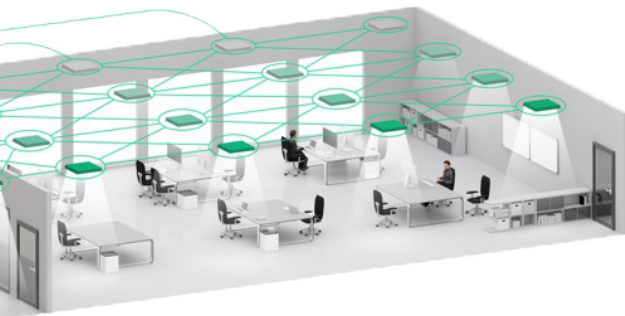


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth® NLC lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

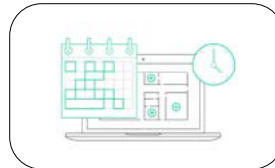
DLC NLC Qualified.

FEATURES AND BENEFITS

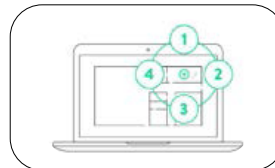
- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- High-End Trim
- LLLC (Luminaire Level Lighting Controls)
- Energy Monitoring
- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility
- 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



SCHEDULING



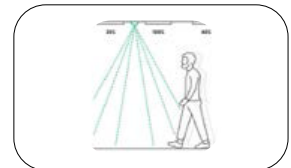
SCENES



HIGH / LOW END TRIM



OCCUPANCY SENSING



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



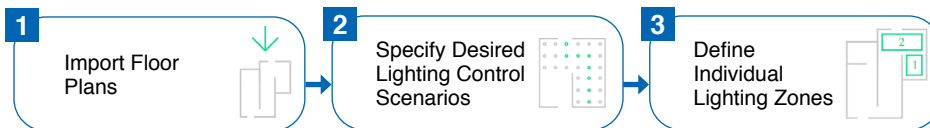
No single point of failure (no central device)



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

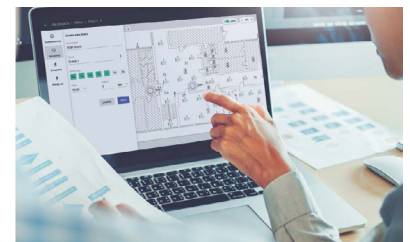
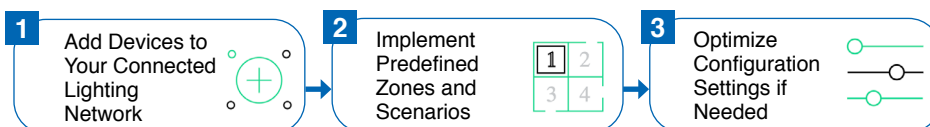
PLANNING

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.