

Project	
Notes	
Type	Date
Cat. No.	

WLC/BT-PLGC-15A-120V-300 Wireless Bluetooth® Plug Load Control Receptacle

DESCRIPTION

The AleoBlue Wireless Bluetooth® Plug Load Control Receptacle is a smart electrical outlet designed to automate and manage power to plugged-in devices using Bluetooth® technology. It enables energy savings by allowing control based on schedules, occupancy, or user commands through AleoBlue control systems. Ideal for commercial applications, it helps meet energy codes like ASHRAE 90.1 and Title 24 by automatically controlling non-critical plug loads, such as task lighting, monitors, or chargers, when spaces are unoccupied or during off-hours. Its wireless design ensures easy installation and flexibility for retrofits or new projects.

APPLICATIONS

Indoor spaces with plug load receptacles



WLC/BT-PLGC-15A-120V-300

AleoBlue, Wireless Bluetooth® Plug Load Control Receptacle, 15A max. load., 120V input



Specification Features

Features

- Wirelessly connects to sensors and dimmers
- Wireless communication allows easy retrofits without the need to pull control wires between devices
- On/Off control of a device plugged into receptacle
- Bluetooth® NLC wireless communication makes retrofits easy, no need to pull control wire
- Fast installation into standard wall box

Warning

- DO NOT install with power applied to device
- DO NOT expose the device to moisture

Operation

- Check the AleoBlue Commissioning User Manual for settings and commissioning.
- This device can be reset to the Unprovisioned Mode by pressing and hold “Up” and “Down” button for 5s to reset the device.

Certification

- FCC
- ETL

Warranty

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

Ordering Information

Example: WLC/BT-PLGC-15A-120V-300

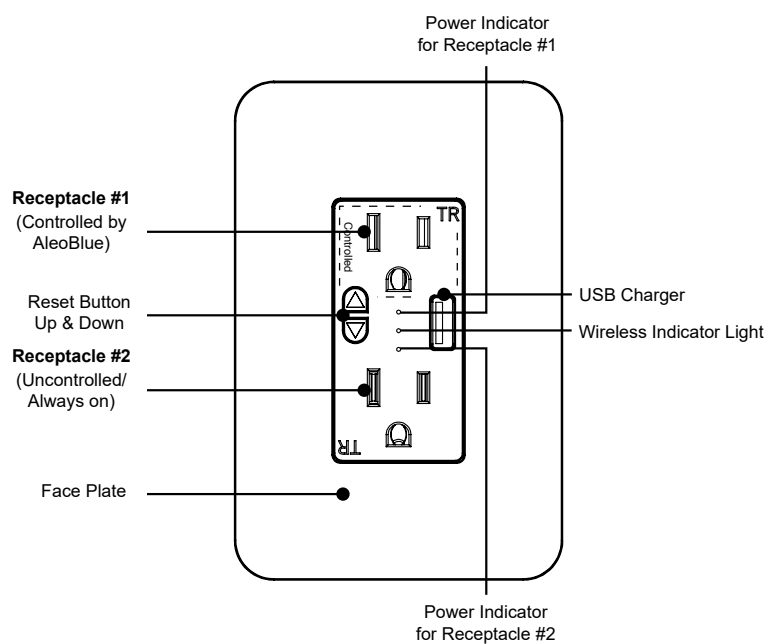
WLC/BT	PLGC	15A	120V	300
Series WLC/BT Wireless Lighting Control Node - Bluetooth Mesh	Type PLGC Plug Load Control Receptacle	Load (Max.) 15A 15 amp	Operating Voltage 120V 120V	300 Designator 300

Performance Summary

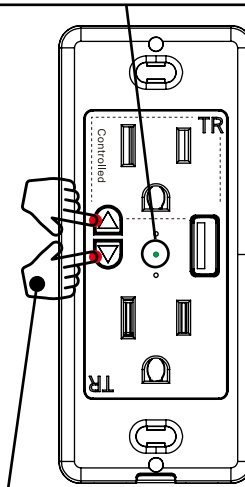
ELECTRICAL	
Resistive Load Rating	15A @ 120V
Operating Voltage	120V
Operating Frequency	60Hz
USB Output	5VDC Max. 2.1A
Operating Temp.	14°F to 131°F (-10°C to 55°C)
Storage Temp.	14°F to 140°F (-10°C to 60°C)
Relative Humidity	90-95% non-condensing at 30°C
Bluetooth Range (Max.)*	65' (20m)
Wireless Standard	Bluetooth® NLC
Relay Type	Electromechanical
IP Rating	IP20
PHYSICAL	
Dimensions	1.8"L x 1.75" x 4.13" H (45.6mm x 44.5mm x 105mm)
Color	White
Mounting Options	Wall Box

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

Product Info



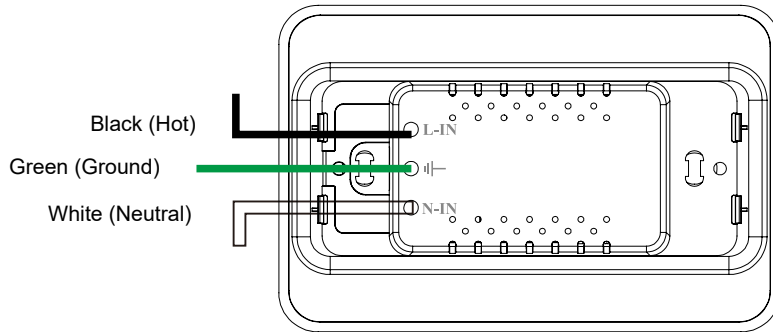
LED indicator: When device is added to the network, the indicator will flash. When device is reset, the indicator will rapidly blink, 2 times per second.



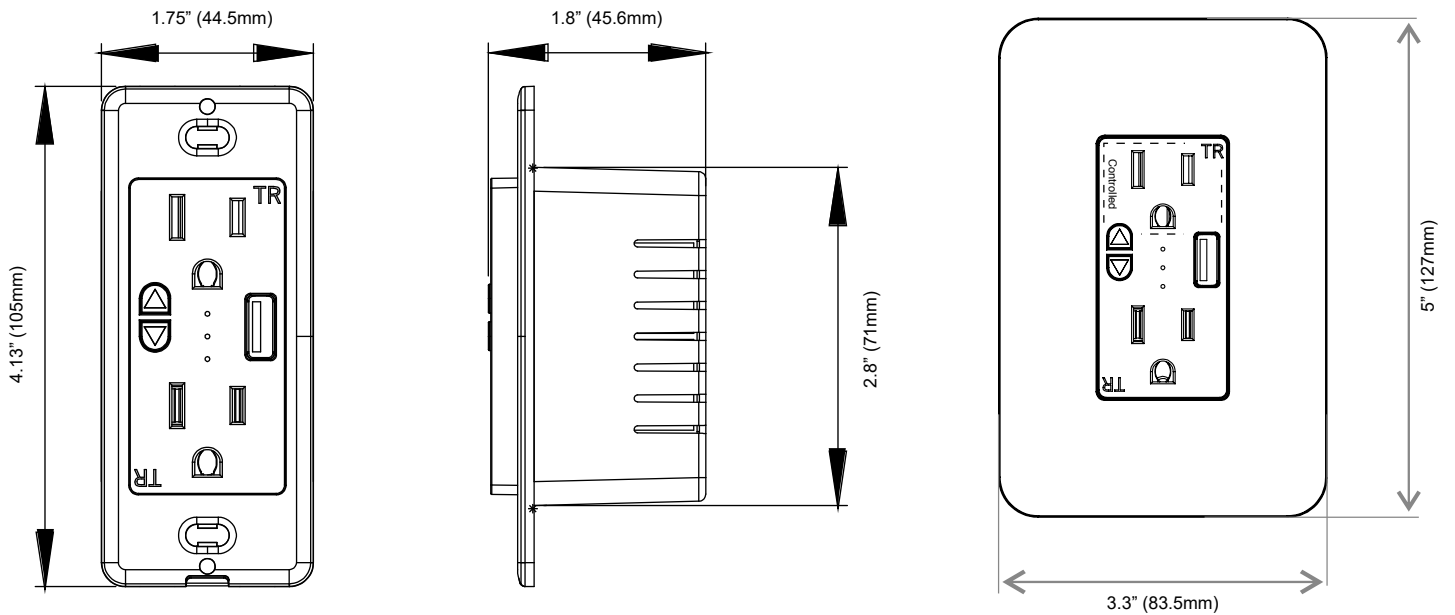
Reset: Press and hold "Up" and "Down" button for 5s to reset the device to Unprovisioned Mode.

Specifications and Dimensions subject to change without notice.

Wiring Diagram



Product Dimensions



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AleoBlue Wireless Bluetooth Controls

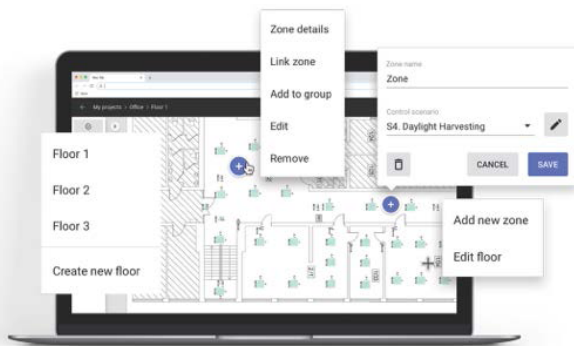


The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

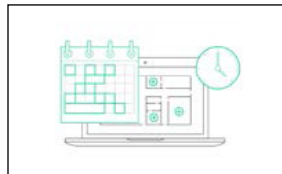
Features and Benefits

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

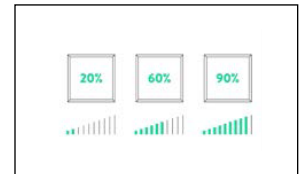


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

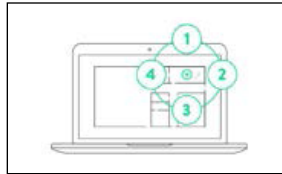
Scheduling



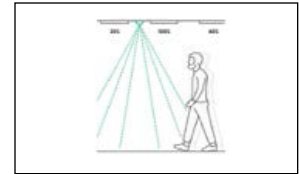
High and Low End Trim



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



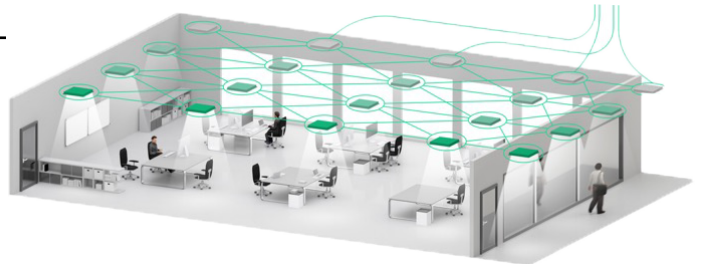
The most advanced encryption standards as well as the cutting-edge device authentication

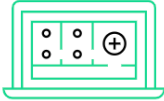


No single point of failure (no central device)



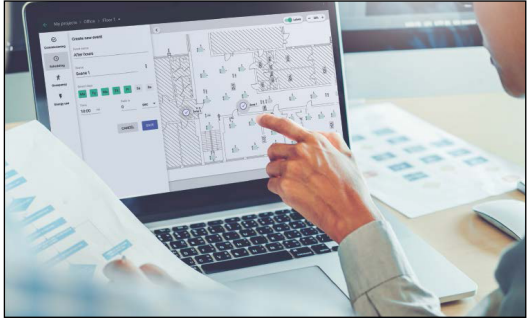
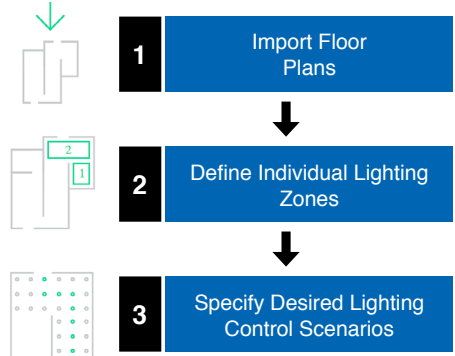
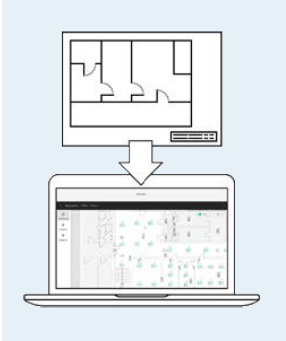
Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)





Planning

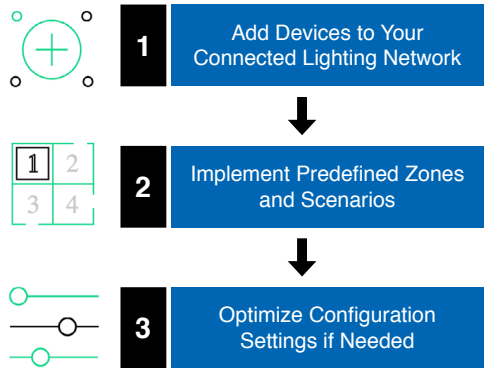
Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.



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



Wireless Bluetooth® Plug Load Control Receptacle
Model: WLC/BT-PLGC-15A-120V-300

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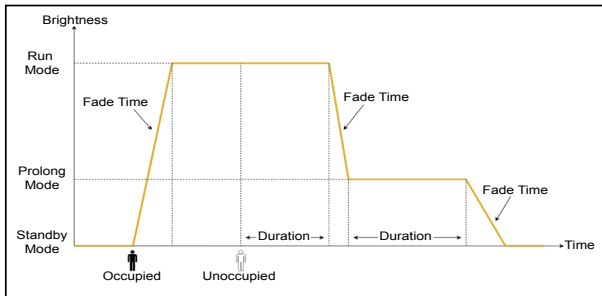
Lighting Control Scenarios

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.

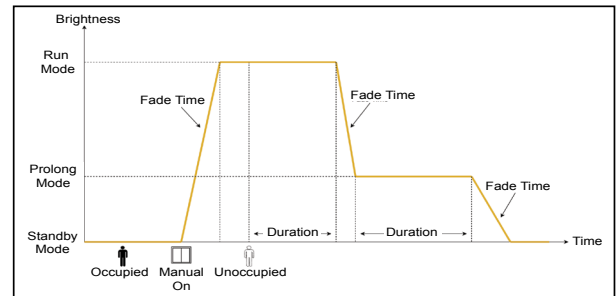


Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight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

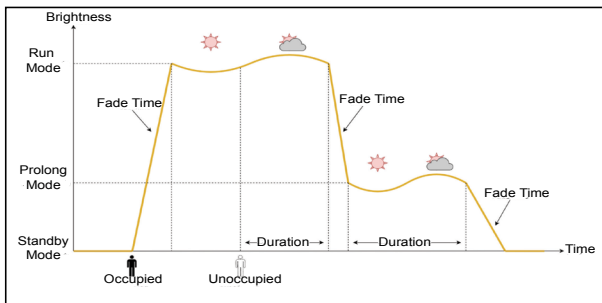
Occupancy Scenario



Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override

