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Project		
Notes		
Туре	Date	
Cat. No.		

Wireless Bluetooth® TRIAC Dimming Power Pack

WLC/BT-LDCM-2.3A-UNV-221

DESCRIPTION

The AleoBlue wireless power pack controller provides On/Off switching and phase cut TRIAC dimming to a connected lighting load as directed by wireless control in the AleoBlue network. The power pack operates on line voltage input (120V-277V). The contractor-friendly form factor conveniently mounts in a KO hole of a standard junction box or luminaire driver box via a threaded chase nipple and lock nut. The unit can also be installed inside luminaire driver boxes.

APPLICATIONS

Indoor: Open offices, Individual offices, Conference rooms, Classrooms, Retail stores, Hospitals, Lobbies.



Features

- Wirelessly connects to sensors and dimmers
- Wireless communication allows easy retrofits without the need to pull control wires between devices
- \bullet On/Off and dimming control of a luminaire or group of luminaires
- Bluetooth Mesh SIG wireless communication makes retrofits easy, no need to pull control wire
- Plenum Rated (UL 2043)
- Fast installation onto junction boxes using chase nipple and lock
 nut

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 holding the "Reset"
- button over 5 seconds till the indicator flashes.

Certification

UL Listed. All components have UL certification.

Warranty

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



WLC/BT-LDCM-2.3A-UNV-221

AleoBlue, Wireless Bluetooth Control Node Power Pack, forward or reverse phase TRIAC dimming, 2.3A max. load., 120-277V input, Case A

Ordering Information

Example: WLC/BT-LDCM-2.3A-UNV-221

WLC/BT	LDCM	2.3A	UNV	221
Series WLC/BT Wireless Lighting Control Node - Bluetooth Mesh	Type LDCM Linear TRIAC / Forward / Reverse Phase Dimming Control Module	Load (Nom.) 2.3A 2.3 amp	Operating Voltage UNV 120-277V	221 Designator 221

WLC/BT-LDCM-2.3A-UNV-221

Wireless Bluetooth® TRIAC Dimming Power Pack

Performance Summary

ELECTRICAL			
Resistive	2.1A @ 120-240V 1.5A @ 227V		
Capacitive	1.05A @ 120-240V 0.75A @ 227V		
Operating Voltage	120V-277V		
Operating Hertz	50/60Hz		
Aux Power	12V, 100mA MAX		
Operating Temp.	32°F to 104°F (0°C to 40°C)		
Relative Humidity	8%-80%		
CONTROL			
Dimming	Forward or Reverse Phase		
PHYSICAL			
PHYSICAL Dimensions	3.2"L x 2.2"W x 1.2"H (82.5mm x 55mm x 31mm)		
PHYSICAL Dimensions Color	3.2"L x 2.2"W x 1.2"H (82.5mm x 55mm x 31mm) Blue		

Dimming



Product Info

LED indicator: When device is added to the network, the indicator will flash.



Reset button: Press it to reset the device to Unprovisioned Mode.

*Note: Use a non-metal electrical enclosure for best wireless communication performance.

Wiring Diagram



*Dimming wire is optional for J-Box mounting.

Bluetooth® Sensor (Optional)

Dimensions



Easy Mounting



Mounts inside fixture

Nipple Adapter

Mounts Outside fixture

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Learn More



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







Occupancy Sensing



- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize 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)



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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® TRIAC Dimming Power Pack Model: WLC/BT-LDCM-2.3A-UNV-221

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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.



Occupancy Scenario



Occupancy Scenario - with Daylight Harvesting



			-
Jnprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Dccupancy	On / Off / Scenes	Auto On / Off	-
/acancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
acancy with Daylight Harvesting	On / Off / Scenes	Auto Off	Enabled

Vacancy Scenario

Mode / Scenario

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Wireless Switch Occupancy Sensor Ambient Light Sensor



Occupancy Scenario with Manual Override

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