

# aleoblue

# Wireless Lighting Controls

Specification and Application Guide



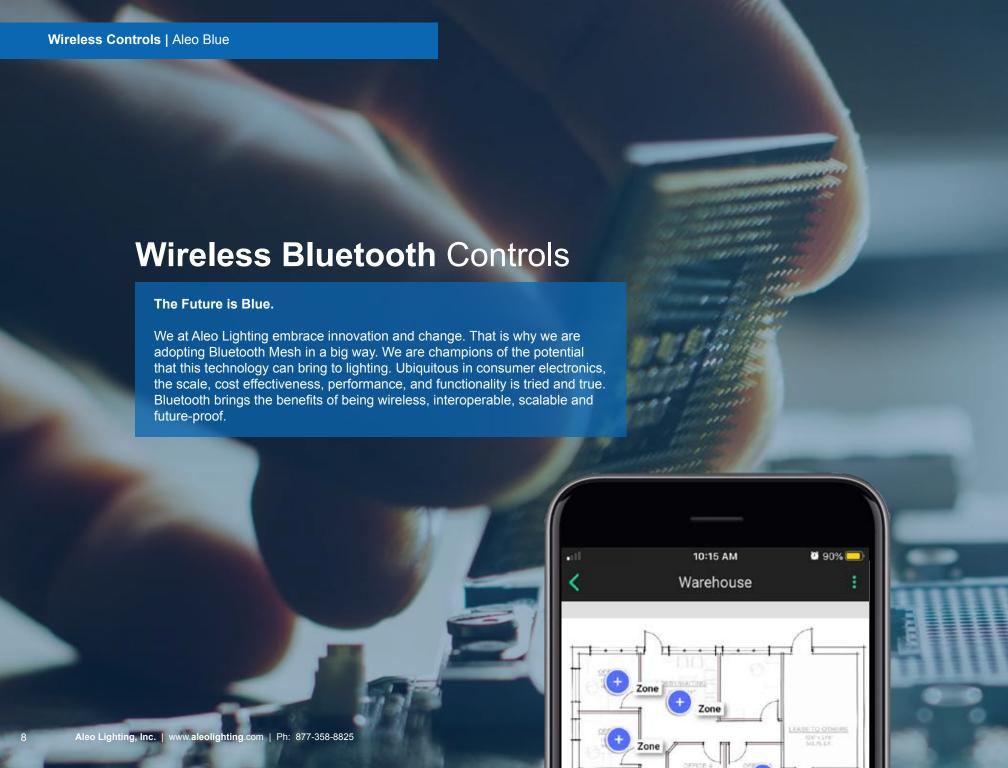


# Sensor System Comparison

	Aleo Blue	EasySense	SmartCast	Vive
Technology	Bluetooth Mesh	Zigbee	Zigbee	Proprietary RF
Grouping	<b>⊘</b>	<b>⊘</b>	<b>⊘</b>	<b>Ø</b>
Zoning	<b>⊘</b>	•	•	•
Cost	\$	\$\$	\$\$\$	\$\$\$\$
Wireless Dimmer Switch	<b>⊘</b>	•	•	•
Interoperable	<b>⊘</b>	<b>×</b>	<b>×</b>	8
Scalable	<b>✓</b>	8	8	•
Future Proof	<b>⊘</b>	8	8	8
Ease of Commissioning	Very Easy	Difficult	Difficult	Moderately Easy
Dedicated Remote Needed?	×			8
Gateway Needed?	×	8	8	•
				Att.

# Luminaire Compatibility Guide

	LT-CD	LTR	LLS	SLB	XLB	SCB
	Troffer	Troffer Retrofit	Strip	High Bay	High Bay	High Bay
Aleo Blue Available?	Yes	Yes	Yes	Yes	Yes	Yes
PIR Occupancy Sensor Available?	Yes	Yes	Yes	Yes	Yes	Yes
Lighting Control Node Available?	Yes	Yes	Yes	No	No	No
Wireless Dimmer Switch Available?	Yes	Yes	Yes	Yes	Yes	Yes
Mounting	Fixture Integrated	Fixture Integrated	External Fixture End Mount or Fixture Integrated	External Fixture End Mount	External Fixture End Mount or Fixture Integrated	Fixture Integrated
	6	60	6	100		



# Why aleoblue?



#### Features:

- Fastest Low Power Communication
- Scalability to Thousands of Devices
- No Single Point of Failure
- Advanced Encryption Standards
- Cutting Edge Device Authentication
- Self-healing Mesh Network
- Over the Air Updates

#### Benefits:

- Reduced Latency
- Reliable
- High Performance
- Secure
- Future-proof
- Easy to Commission / Provision
- No Special Remote to Commission



# Features and Functions

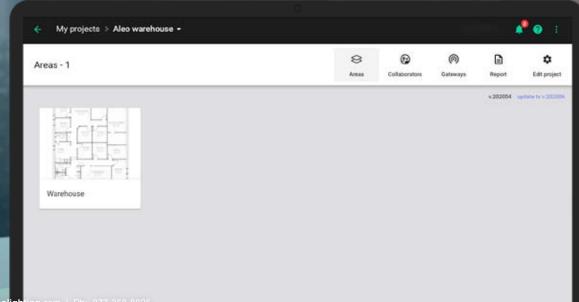
Wireless Provisioning	Provision Lighting Controls within the Bluetooth mesh network using any iOS device.			
High End Trim	The upper limit of the light level that can be reached with automatic or manual control.			
Low End Trim	The lower limit of the light level that can be reached with automatic or manual control.			
Time Delay	The time for which the light is maintained at the defined level when switched on. The timer is reset each time motion is detected.			
Daylight (Harvesting)	Use of ambient daylight to automatically dim light levels.			
Occupancy Sensing	All luminaires are switched on automatically when motion is detected and switched off automatically when no motion is detected.			
Zoning / Grouping	Create Zones in order to operate multiple luminaires in a similar fashion or assign Control Scenarios to a group of luminaires.			

# Planning and Pre-Commissioning

Pre-Commissioning via a desktop makes on-site commissioning a lot easier and faster. Remotely prepare a retrofit project with the use of our browser-based app. Upload floor plans, define individual lighting zones, and choose lighting control scenarios saves time in the field.

#### **Planning**

Web Application | Browser-based



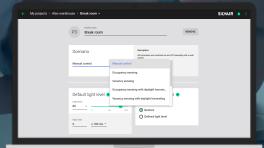
- 1 Create **Project** and Add **Collaborators**
- 2 Create Areas and Upload Floor Plans



3 Add Lighting Zones



4 Define Control Profiles



#### **Standard Control Profiles:**

- Manual Control
- Vacancy Sensing
- Vacancy Sensing with Daylight
- Occupancy Sensing
- Occupancy Sensing with Daylight
- Photocell
- Multiple Scenes
- Central Control

# **Implementation and Provisioning**

Onsite commissioning is intuitive and easy. Add lighting devices to the Bluetooth mesh network using any iOS device.

Customize and calibrate lighting control parameters during and after the commissioning process. Define scenes for specific areas, tasks, and activities.

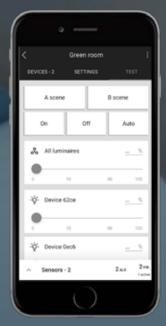
#### Implementation

Mobile Application | IOS





Add Devices to Your Connected Lighting Network

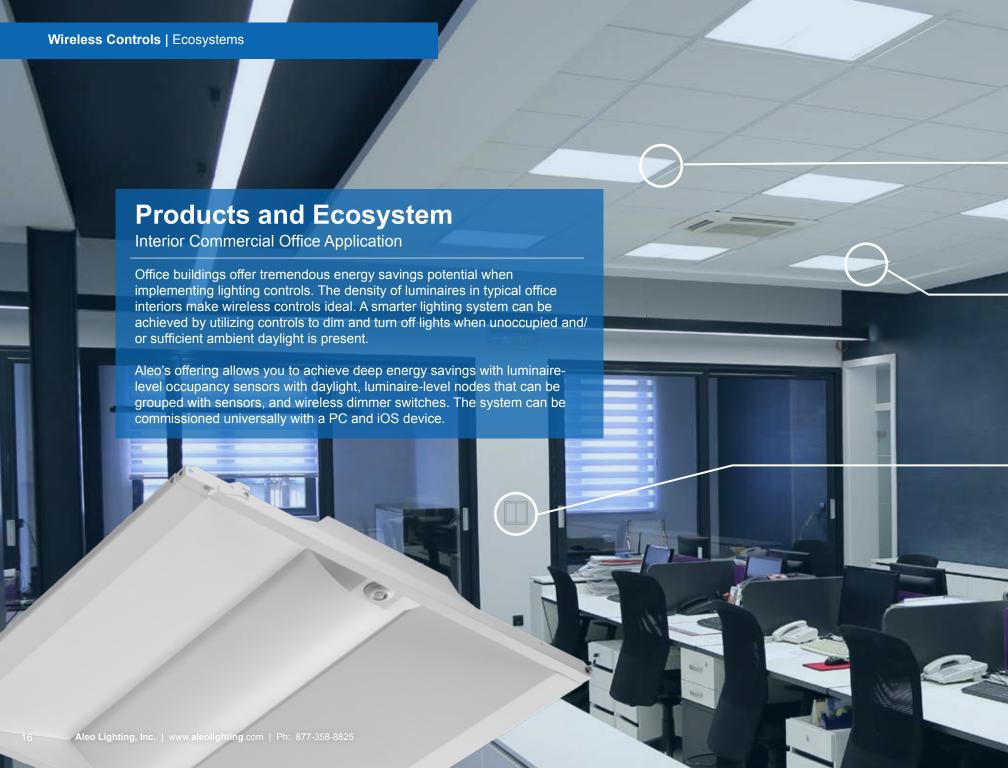


2 (Optional) Add EnOcean Bluetooth Dimmer Switch

3 (Optional) Calibrate Sensor



4 Test Your Zone





#### **Wireless Occupancy Sensor**

Model No: -OSDL/BT

- Wireless Commissioning
- Wireless Grouping and Zoning
- PIR Occupancy Sensing
- High / Low End Trim

- Daylight Harvesting
- Time Delay and Fade/Ramp Time
- Multi-level Dimming
- Scene Control



#### **Wireless Control Node**

Model No: - WLC/BT

- Wireless Commissioning
- · Wireless Grouping and Zoning
- High / Low End Trim

- Time Delay and Fade/Ramp Time
- Multi-level Dimming
- Scene Control



### **Wireless Dimmer Switch**

Model No: ESRPB-W-EO | EDRPB-W-EO

- · Wireless Control of devices
- On/Off Control
- Continuous Dimming Control
- No AC or Battery Power Needed
- Powered by Kinetic Energy
- Single or Double Rocker Available
- Scene Programming Available

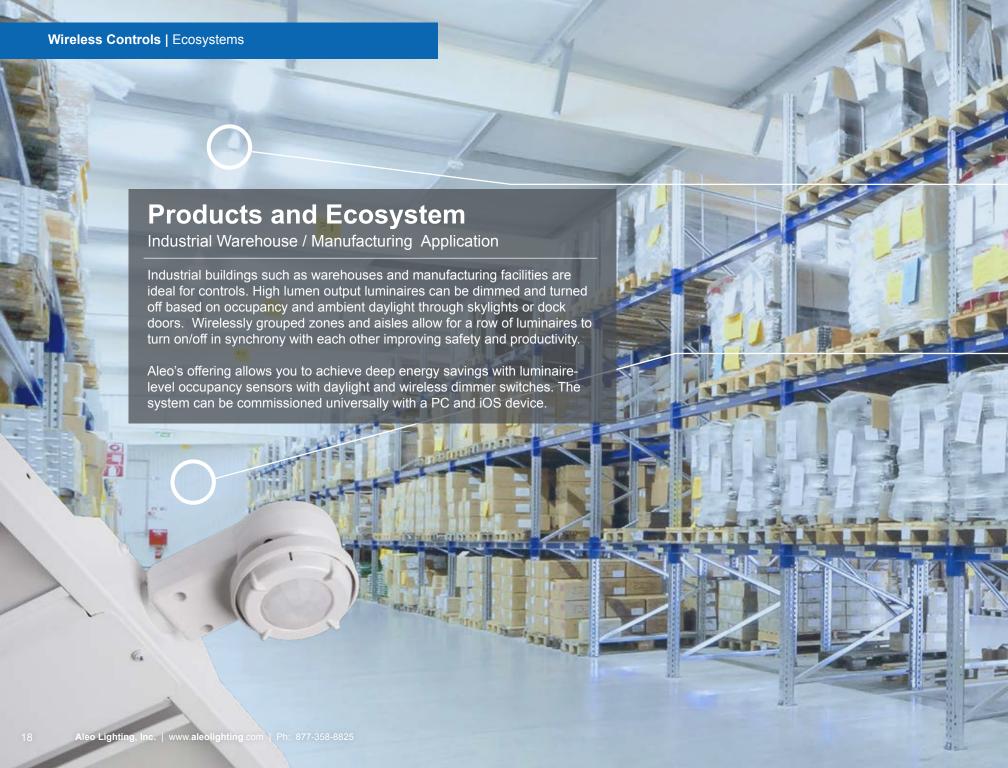


#### **Commissioning App**

Your iPhone or iPad

- Use iOS Smart Phone to Commission Devices
- · No Dedicated Remote Needed
- Easy to Use Interface
- Fast Device Identification and Grouping









#### Wireless Controls | Ecosystems



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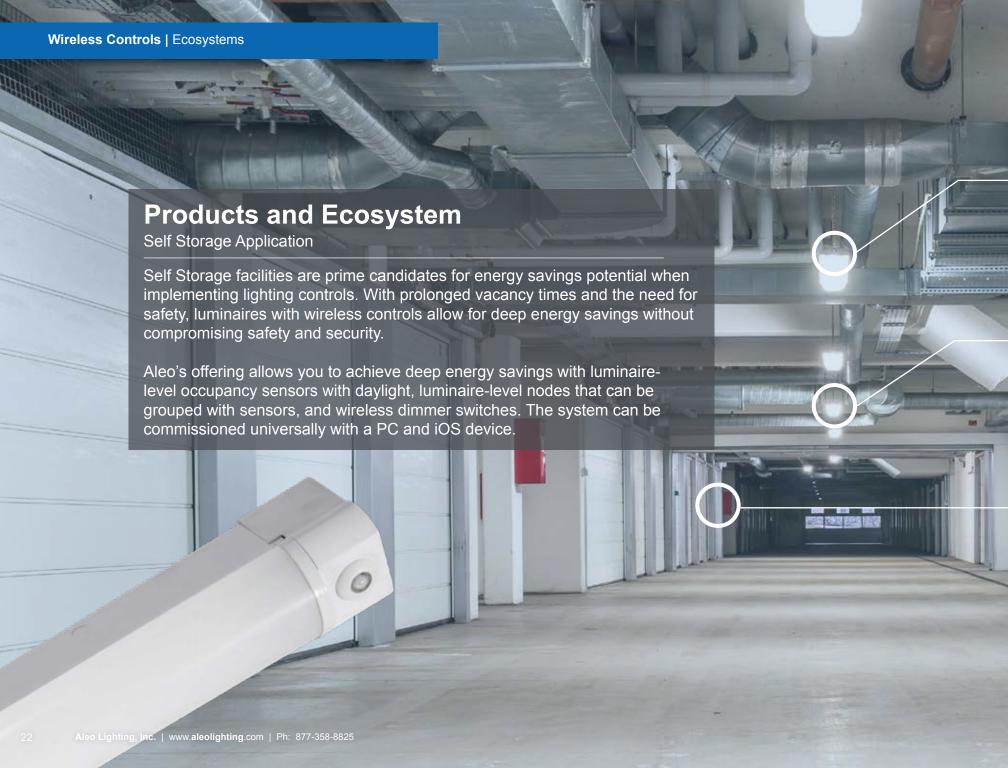
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### Wireless **Sensor**

#### Bluetooth PIR Occupancy | Daylight Sensor

#### **Bluetooth Mesh**

Self-healing, wireless Bluetooth network of devices. Over the air updates, interoperable open standard.

#### **Grouping and Zoning**

Wirelessly group luminaires via sensor to act in sync with each other: On/Off, dim. Allows for more uniform control of smart lighting.

#### **Fixture Integrated**

Sensor is fixture-integrated, also known as luminaire level lighting control.

Allows for easier and faster installation and implementation.

#### Ambient Daylight Sensor

Ambient Daylight sensor allows for greater energy savings and demand reduction by lowering light levels when natural daylight is present. Wireless calibration available.

#### **PIR Occupancy Sensor**

Design and build a smarter, more efficient lighting system with passive infrared occupancy sensing. Take energy savings to the next level by reducing demand when spaces are vacant.

#### Wireless Commissioning

Convenient commissioning and provisioning of sensors via universal iOS devices (iPhone or iPad). No dedicated remote needed. Utilizes your smart phone's Bluetooth technology.

#### **Scene Control and Manual Control**

Wirelessly control individual luminaires or groups of luminaires utilizing a wireless dimmer switch. Single Rocker or Double Rocker self-powered switches available. Set and program scenes.

### Wireless Controller **Node**

#### Bluetooth Control Node

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#### · Continuous Dimming

0-10V dimming allows for manual dimming control via EnOcean dimmer switch and daylight harvesting that reduces light levels depending on ambient daylight.

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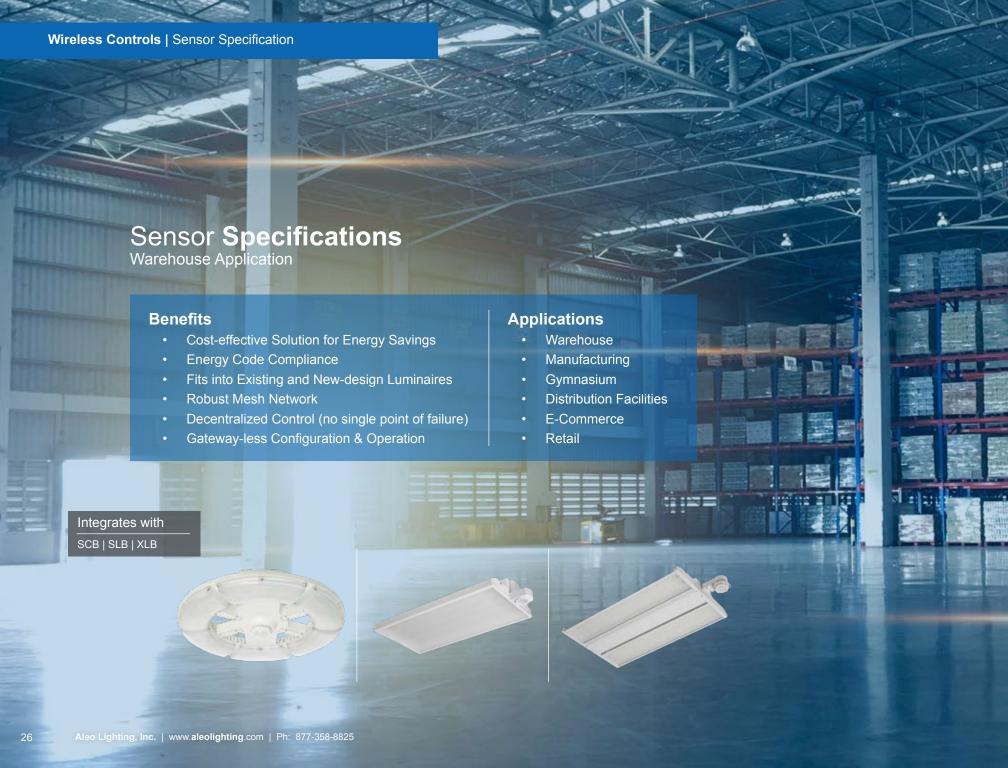
Wireless Bluetooth Occupancy Sensor Model No: - OSDL/BT

Integrates with LTR | LT-CD | LLS

Wireless Bluetooth Lighting Control Node

Model No: - WLC/BT

Integrates with LTR | LT-CD | LLS



# Wireless PIR Occupancy Sensor

#### Bluetooth PIR Occupancy | Daylight Sensor

#### **Continuous Dimming**

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### PIR Occupancy Sensor

Model No.: -OSDL/BT

Integrates with SCB | SLB | XLB



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## Dimmer Switch

#### Wireless Bluetooth Dimmer Switch



# **Indoor Application**

Wireless Bluetooth Luminaires

# LT-CD™ Series Volumetric LED Troffer

2' x 2' - 25W 2' x 4' - 34W DLC Premium

Model No.: -OSDL/BT - Wireless Bluetooth Occ. Sensor w/ Daylight Model No. -WLC/BT - Wireless Bluetooth Controller Node

# Highbay **Application**

Wireless Bluetooth Luminaires

#### SCB™ Series LED High Bay

100W, 150W, 200W, 240W DLC Premium

Model No. **-OSDL/BT** - Wireless Bluetooth Occ. Sensor w/ Daylight

## LTR™ Series LED Troffer Retrofit Kit

2' x 2' - 25W 2' x 4' - 34W DLC Premium

Model No. **-OSDL/BT** - Wireless Bluetooth Occ. Sensor w/ Daylight Model No. **-WLC/BT** - Wireless Bluetooth Controller Node

#### LLS™ Series LED Linear Strip Luminaire

4' - 25W, 40W 8' - 52W, 68W DLC Premium

Model No. **-OSDL/BT** - Wireless Bluetooth Occ. Sensor w/ Daylight Model No. **-WLC/BT** - Wireless Bluetooth Controller Node

#### SLB™ Series Slim Linear LED High Bay

2' - 90W, 135W, 162W, 215W 4' - 225W, 275W, 320W DLC Premium

Model No. **-OSDL/BT** - Wireless Bluetooth Occ. Sensor w/ Daylight

# XLB™ Series Ultra Efficient Linear LED High Bay

2' - 70W, 100W, 150W DLC Premium

Model No. **-OSDL/BT** - Wireless Bluetooth Occ. Sensor w/ Daylight



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