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## LEDVANCE LINK™

BLUETOOTH® LOW ENERGY MESH  
NETWORKED LIGHTING CONTROL SOLUTION

FOR CONTRACTORS, FACILITY MANAGERS, AND OWNERS









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# EASY-TO-DEPLOY BLUETOOTH® CONTROL SYSTEM SAVES LABOR, MATERIAL, AND TIME

## **LEDVANCE LINK™ Bluetooth®**

### **Low Energy Mesh technology**

makes networked lighting control quick, easy and painless. It's the ideal solution for contractors, facility managers, and owners looking to incorporate a wireless solution for greater energy savings and more control—no gateways, hubs, or Wi-Fi required.

### **WHO'S USING BLUETOOTH® LIGHTING CONTROL?**

LEDVANCE LINK™ Bluetooth® low energy mesh solutions are well suited for contractors, facility managers, and owners who are looking for improved energy savings, greater operating efficiency and enhanced occupant comfort. New construction and retrofit applications of all sizes include:

- Offices
- Stores
- Industrial facilities
- Healthcare facilities
- Schools
- Arenas and auditoriums
- Parking lots and garages



# SAFE AND SECURE PRODUCTS



LEDVANCE LINK™ Bluetooth® low energy mesh solutions are UL1376 Gold Security Level 3 certified. No gateways, hubs, or Wi-Fi required.

## ENERGY SAVINGS STRATEGIES

LEDVANCE LINK™ Bluetooth® low energy mesh solutions make it easy to implement energy-saving strategies that enable more efficient energy usage without compromising occupant comfort and convenience.

NETWORKED		STANDALONE/NETWORKED	
<b>DAYLIGHT HARVESTING</b>	Automatically adjusts light output to maintain a specified light throughout the day	<b>HOLD-TIME</b>	Period of time the lamp/luminaire remains illuminated after no motion is detected
<b>ZONING/ GROUPING</b>	All the luminaires will perform the same task, circuits do not matter	<b>VACANCY SENSING</b>	Occupant manually turns the lights on. Lights will turn off or dim after no motion is detected
<b>SCHEDULING</b>	Automatically turns the luminaire on/off at specified times	<b>TIME DELAY</b>	Dims for a period of time that has passed; then shuts off assuming no motion has been detected
<b>LOAD CONTROL</b>	Automatically turns off plug loads when the space is vacated	<b>OCCUPANCY SENSING</b>	Automatically turns on when motion is detected; off or dim after no motion is detected
<b>MANUAL CONTROL</b>	Manually turn luminaires on/off or dim	<b>SENSITIVITY</b>	How much movement is required before luminaires react to motion
<b>CCT CHANGING</b>	Select CCT to support mood, atmosphere, task (on select luminaires)	<b>0-10V DIM</b>	Ability to smoothly increase or decrease the luminaire intensity
<b>VISIT THE CONTROLS TRAINING PAGE</b> to access the lighting controls on-demand training modules		<b>AMBIENT THRESHOLD (PHOTOCELL)</b>	Luminaires automatically turn on or off when a specified light level is detected
		<b>HIGH/LOW END TRIM</b>	Sets the maximum brightness of a luminaire or lamp

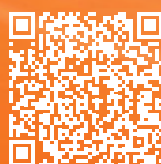
## FOR MORE INFORMATION CHECK OUT THE LINKS BELOW



UL1376  
Gold Security



US Department  
of Energy



Title 24



ASHRAE 90.1



ICC



DLC

# A SMART CHOICE FOR ANYONE



## **EASY, SIMPLE DEPLOYMENT**

Install a LEDVANCE LINK™ Bluetooth® low energy mesh solution quickly and easily—new installations and for retrofits, with minimum disruption to business operations. It's also easy to reconfigure or add functionality to meet user requirements.



## **FLEXIBLE AND SCALABLE**

From a single office area to an entire floor, you can start small—or start large—and add additional luminaires or capabilities as needed. As spaces and layouts change, the LEDVANCE LINK™ easily changes with them, often, without needing to call in an installer.



## **SMART AND CONVENIENT**

Commission and configure the system with the easy-to-use LEDVANCE LINK™ app (available for both iOS and Android) and can be controlled by either the app or the optional wireless/wired wall controller.



## **RELIABLE**

Specifically designed for small/middle-scale networked lighting applications, Bluetooth® low energy mesh offers a reliable connection and expanded range between the devices.



## **SAFE & SECURE**

UL1376 certified Gold Security Level 3 ensures cybersecurity capabilities of our connected products. Gateway-free networking technology ensures rock-solid, 24/7 operation.



## **ENHANCED ENERGY SAVINGS**

LEDVANCE LINK™ Bluetooth® low energy mesh solutions make it easy to implement energy-saving strategies that enable more efficient energy usage. Multiple essential control strategies can be achieved with one simple control solution for lighting optimization. DLC NLC5.0 listing helps maximize rebate opportunities.



# SIMPLE AND FLEXIBLE CONNECTED LIGHTING CONTROL SOLUTION

Using just a few key components, you can tailor a LEDVANCE LINK™ Bluetooth® low energy mesh solution to the exact needs of your customer. In addition to network-ready (LLLC), connected luminaires, field installable, Plug&Play controllers, sensors, and accessories are compatible with many of our most popular luminaires, making short work of retrofits. The system is commissioned through the intuitive and simple LEDVANCE LINK™ app, and can be controlled by either the app or the optional wireless/wired wall controller.


**1**

## INSTALL

LEDVANCE LINK™ Field Installable Control Components (Plug&Play/hardwired) to luminaires or LEDVANCE LINK™ Bluetooth low energy mesh enabled connected luminaires (LLLC)

**2**

## COMMISSION

the connected devices using the LEDVANCE LINK™ app

**3**

## CONTROL

by the LEDVANCE LINK™ app, or by an optional wireless/wired wall controller

# GET UP AND RUNNING WITH LEDVANCE LINK™ NETWORKED LIGHTING CONTROL SOLUTION

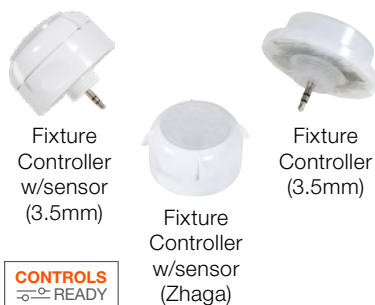
Installing LEDVANCE LINK™ is quick and easy using 3 installation methods: Plug&Play, Embedded in driver, or Hardwired. Giving you the most project flexibility.

## HERE'S WHAT YOU'LL NEED:

- 1 **Free LEDVANCE LINK™ App, and an iOS or Android phone or tablet**
- 2 **Fixture Controller:** Plug&Play, Embedded, or Hardwired (any combination can be used)

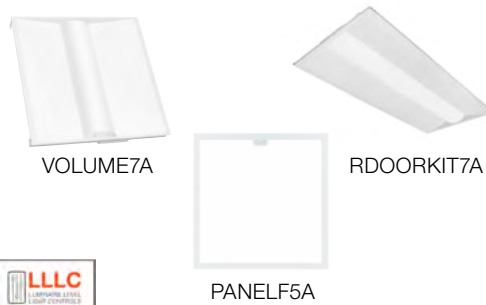


### PLUG&PLAY



Use with Controls Ready products

### EMBEDDED IN DRIVER



Adjustable CCT using app or wireless controller

### HARDWIRED



Use with ANY manufacturer's product

Allows for multiple installation options and multiple project solutions



# THREE INSTALL OPTIONS: ENDLESS APPLICATION POSSIBILITIES

## 1 PLUG&PLAY (3.5mm): Easy simple install, no wiring, no electrician

**CONTROLS**  
READY



62630: Fixture Controller Only (3.5mm)

OR



62634: PIR Sensor w/Fixture Controller (3.5mm)



63652: Adapter

OPTIONAL



63958: Bracket Receptacle\*

OR



63909: Bracket Receptacle

\*remove wire accessory/adapter

Use with Controls Ready products

### PLUG&PLAY (Zhaga) – Made To Order only



63031: PIR Sensor w/Fixture Controller White (Z10)

OR



63032: PIR Sensor w/Fixture Controller Bronze (Z10)



Can also be used with select non-Controls Ready products, some wiring required

### PLUG&PLAY WITH WIRED ADAPTER



62630: Fixture Controller Only (3.5mm)

OR



62634: PIR Sensor w/Fixture Controller (3.5mm)



OPTIONAL



62637: Adapter

Can also be used with select non-Controls Ready products, some wiring required

## 2 EMBEDDED IN DRIVER

**LLLC**  
LUMINAIRE LEVEL LIGHT CONTROLS



VOLUME7A



PANELF5A



RDOORKIT7A

These specific luminaires allow for CCT adjustability via app, wireless controller using scenes, or using the app to setup circadian rhythm to automatically adjust the CCT throughout the day. A Time Clock Module (NAED 63828) is recommended.

Allows for CCT to be adjusted via app or wireless controller

## 3 HARDWIRED



High Bay Sensor



Ceiling Sensor



Dual Tech Sensor



Power Supply



Load Controller 3A



Load Controller 20A

Can be incorporated into any project and can work with any luminaire, not just LEDVANCE

# FAST, SIMPLE, PLUG&PLAY LEDVANCE LINK™ NETWORKED LIGHTING CONTROL SOLUTION

Plug and Play makes adding LEDVANCE LINK™ networked lighting controls simple and easy. No wiring and no electrician required. Design with flexibility by adding the control solution now or later.



## PLUG&PLAY IN 3 EASY STEPS USING SCREW-IN RECEPTACLE

1



**Remove** the access cover with screwdriver to expose screw-in receptacle

2



**Attach** adapter to fixture controller with sensor, being sure to remove plastic protector cap from 3-pin connector

3



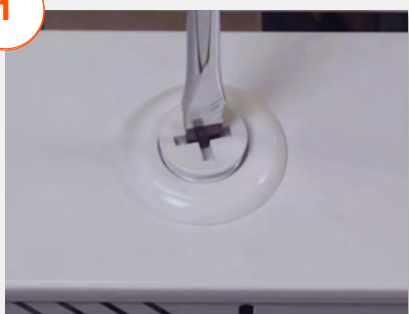
**Screw-in** the male 3-pin adapter attached to the fixture controller with sensor into the receptacle



## PLUG&PLAY IN 3 EASY STEPS

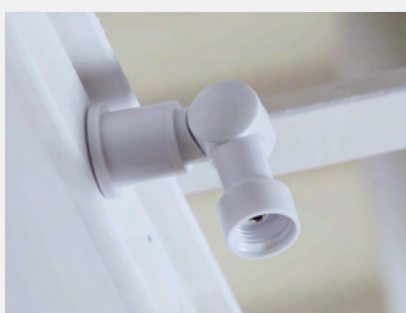
### USING ADJUSTABLE BRACKET

1



**Remove** the access cover with screwdriver to expose screw-in receptacle with 3.5mm plug

2



**Attach** adjustable bracket to luminaire by screwing threaded end into the exposed receptacle

3



**Screw-in** the controller with sensor to the adjustable bracket. Adjust bracket position to achieve best sensor coverage

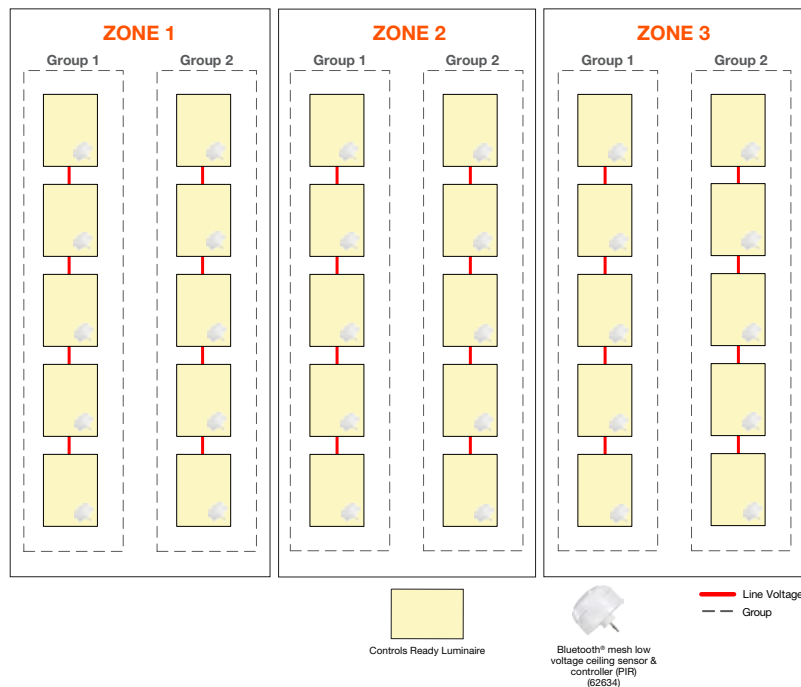


# MULTIPLE GROUPS WITH FIELD INSTALLABLE PLUG&PLAY SENSOR/CONTROLLER



## TYPICAL WAREHOUSE WITH MULTIPLE GROUPS

### PLUG&PLAY Fixture Controller with Sensor



#### LUMINAIRE REQUIREMENT

Controls Ready Luminaire

#### USE APP FOR COMMISSIONING



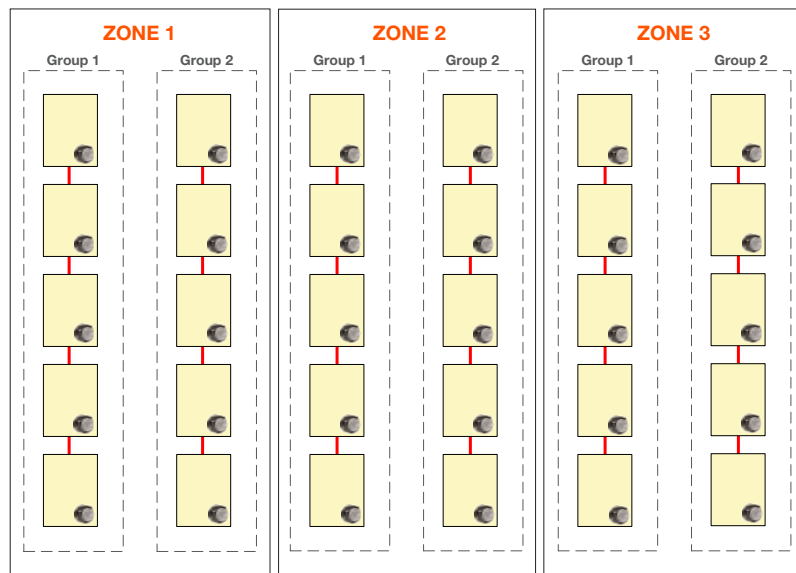
#### ADD OPTIONAL DEVICES





## TYPICAL OUTDOOR PARKING LOT WITH MULTIPLE GROUPS

### PLUG&PLAY Zhaga Outdoor Fixture Controller with Sensor



Approved Outdoor Luminaire

Zhaga Outdoor Fixture Controller with Sensor (63032)

— Line Voltage  
- - - Group

#### LUMINAIRE REQUIREMENT

LEDVANCE Approved Outdoor Luminaire (MTO Only)

#### USE APP FOR COMMISSIONING



#### ADD OPTIONAL DEVICES



# BLUETOOTH® LOW ENERGY MESH ENABLED CONNECTED LUMINAIRES\*: EASY AND FAST INSTALLATION



**1**

## INSTALLATION

Very simple! Thanks to Bluetooth® Low Energy Mesh Enabled Connected Luminaires\* and optional field installable Plug&Play Sensor



**Add optional  
Plug&Play PIR  
and daylight  
harvesting sensor**



\*Fixture controller embedded in driver



2

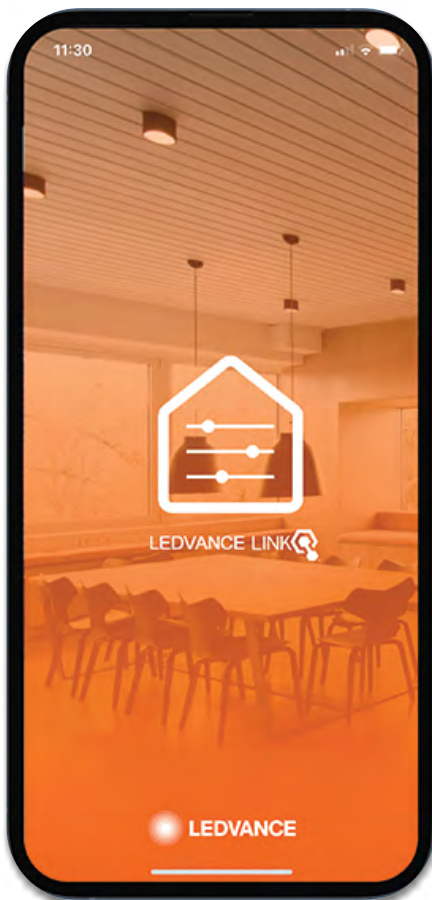
## COMMISSIONING

Fast and simple via  
LEDVANCE LINK™ app

3

## CONTROL

Intuitively either via LEDVANCE LINK™ app or  
optional wireless/wired wall controller



## FUNCTIONALITY

No gateways, hubs, or Wi-Fi required



# BLUETOOTH® LOW ENERGY MESH ENABLED CONNECTED LUMINAIRES\*

WITH OPTIONAL FIELD INSTALLABLE PLUG&PLAY SENSOR



\*Fixture controller embedded in driver

# EXCLUSIVE, BUILT-IN CCT CUSTOMIZATION

## WHEN USING LEDVANCE BLUETOOTH® LOW ENERGY MESH ENABLED CONNECTED LUMINAIRES\* WITH THE LEDVANCE LINK™ APP

When the CCT changes automatically throughout the day this is referred to as adaptive lighting or circadian rhythm lighting. This is only accomplished using LEDVANCE luminaires that have LINK™ EMBEDDED in the driver.

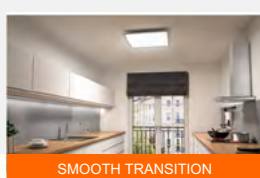
### How the LINK™ circadian rhythm feature works

- Enabling circadian rhythm in the LINK™ app allows the user to customize CCT via scenes, allowing the CCT to adjust automatically throughout the day based on user or tenant preferences
- The LINK™ system operates using a real-time clock, not an astronomical time clock. If circadian rhythm is enabled, a Time Clock Module (NAED 63828) is recommended. Use one module per zone



LOWEST CCT

Morning



SMOOTH TRANSITION

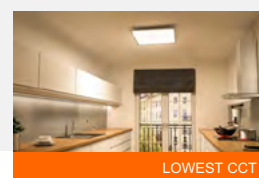


HIGHEST CCT

MIDDAY



SMOOTH TRANSITION



LOWEST CCT

Evening

## SPECIFICATIONS

Product	NAED	Size	CCT (K)	Input Voltage (V)	Wattage (W)	Lumens (lm)	LPW	CRI
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### TROFFER

BLUETOOTH MESH TROFFER 1 x 4	62568	1 x 4	APP/Remote Wireless Controller Selectable 3000, 3500, 4000 and 5000K	120-277V	15/20/25/30	3810	125	80
BLUETOOTH MESH TROFFER 2 x 2	62569	2 x 2			18/25/30/35	4445	125	80
BLUETOOTH MESH TROFFER 2 x 4	62570	2 x 4			23/35/40/45	5715	125	80

### BACKLIT PANEL

BLUETOOTH MESH PANEL 1 x 4	62562	1 x 4	APP/Remote Wireless Controller Selectable 3000, 3500, 4000 and 5000K	120-277V	30	3750	125	80
BLUETOOTH MESH PANEL 2 x 2	62563	2 x 2			30	3750	125	80
BLUETOOTH MESH PANEL 2 x 4	62564	2 x 4			40	5000	125	80

### RETROFIT DOOR KIT

BLUETOOTH MESH RDK 1 x 4	62571	1 x 4	APP/Remote Wireless Controller Selectable 3000, 3500, 4000 and 5000K	120-277V	15/20/25/30	3810	125	80
BLUETOOTH MESH RDK 2 x 2	62572	2 x 2			15/20/25/30	3810	125	80
BLUETOOTH MESH RDK 2 x 4	62573	2 x 4			25/35/40/45	5715	125	80

\*Fixture controller embedded in driver



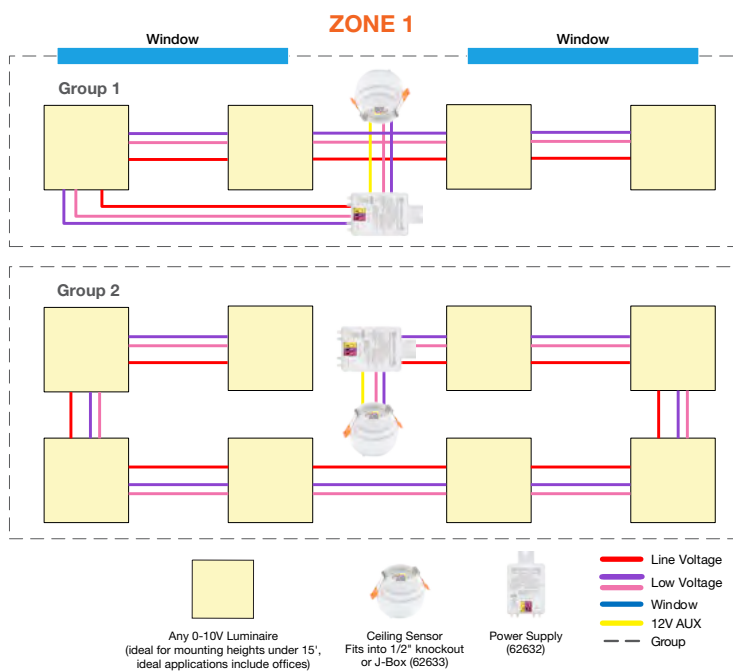


# MULTIPLE GROUPS WITH FIELD INSTALLABLE HARDWIRED POWERPACK/ CONTROLLER WITH SENSOR



## TYPICAL CLASSROOM SPACE WITH MULTIPLE GROUPS

**Hardwired using Line Voltage Fixture Powerpack/Controller with Low Voltage Ceiling Sensor**



Note: Power Supply not to exceed 360W

### LUMINAIRE REQUIREMENT

0-10V Dimming Driver

### USE APP FOR COMMISSIONING



### ADD OPTIONAL DEVICES





# SINGLE GROUP WITH FIELD INSTALLABLE HARDWIRED SENSOR/CONTROLLER

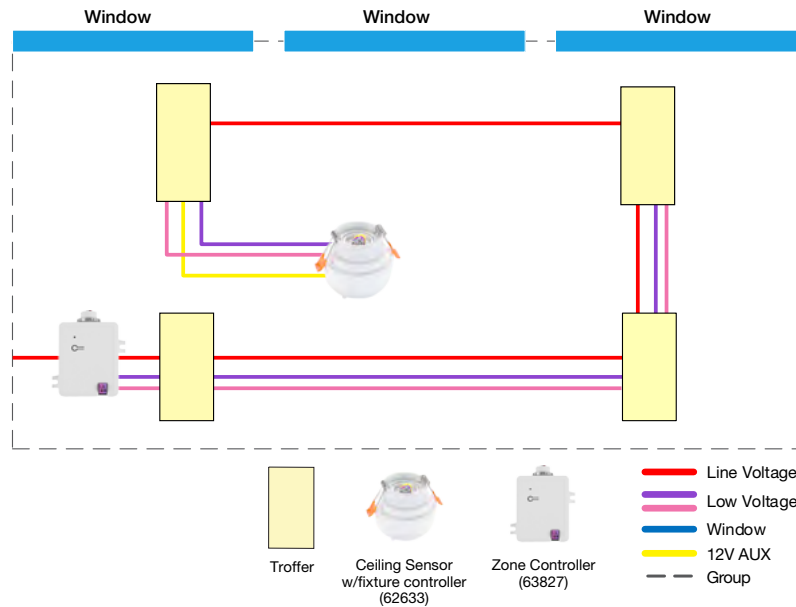




## TYPICAL SMALL OFFICE

### Hardwired 20A Zone Controller with Low Voltage Ceiling Sensor

#### ZONE 1



Note: Zone Controller not to exceed 2400W Max at 120V, 5540W Max at 277V

#### LUMINAIRE REQUIREMENT

0-10V Dimming Driver, 12V AUX

#### USE APP FOR COMMISSIONING



#### ADD OPTIONAL DEVICES



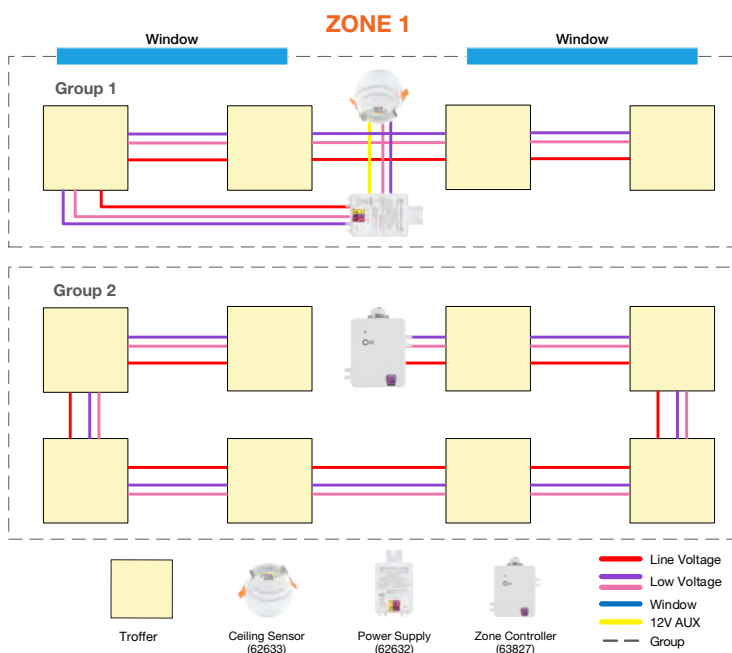
# TWO GROUPS WITH FIELD INSTALLABLE HARDWIRED SENSOR/CONTROLLER





## TYPICAL MEDIUM-SIZED OFFICE WITH TWO GROUPS

Hardwired with Two Group Control, One with Daylight Harvesting and Sensing



Note: Zone Controller not to exceed 2400W Max at 120V, 5540W Max at 277V

### LUMINAIRE REQUIREMENT

0-10V Dimming Driver, 12V AUX

### USE APP FOR COMMISSIONING

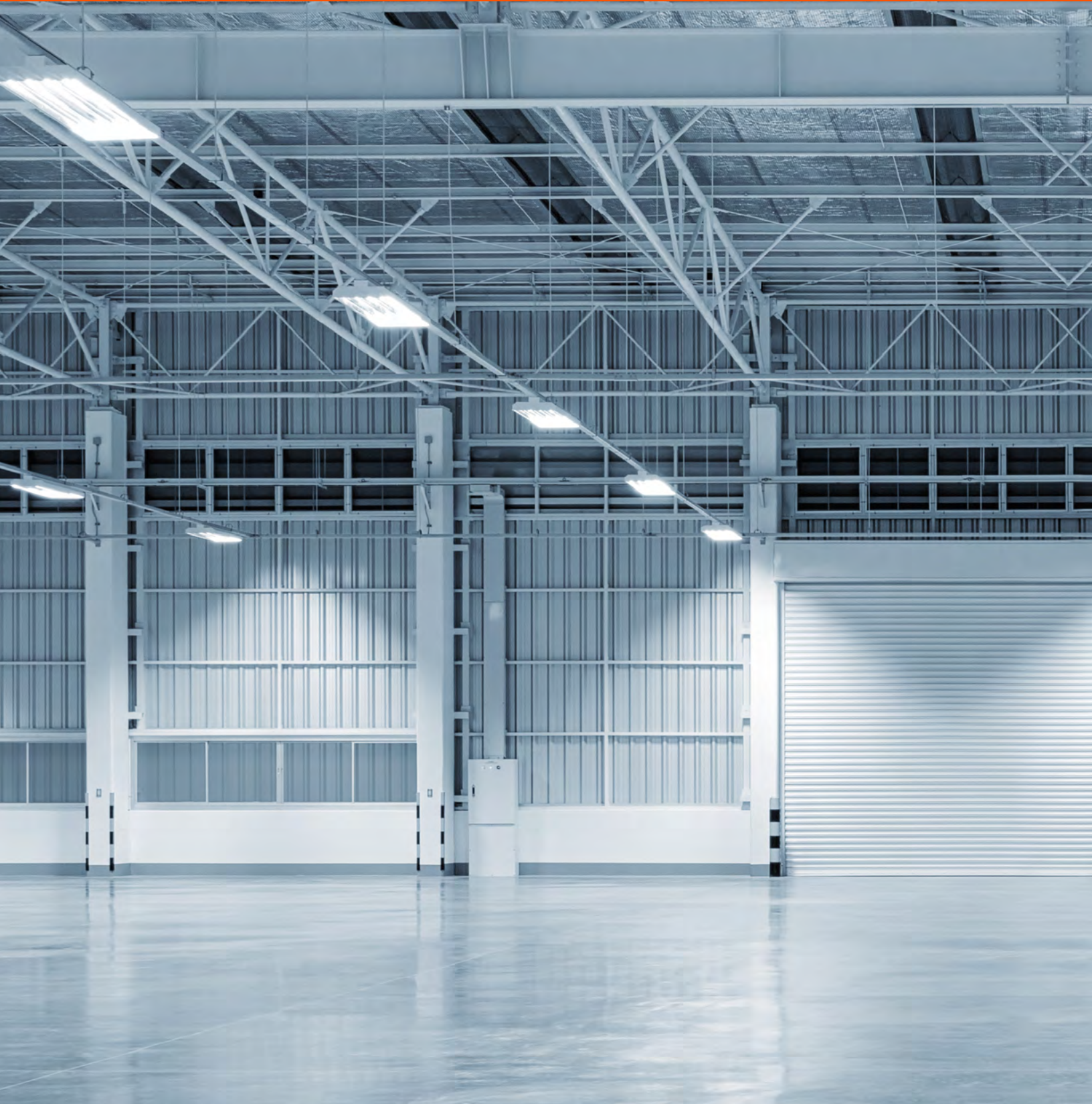


### ADD OPTIONAL DEVICES



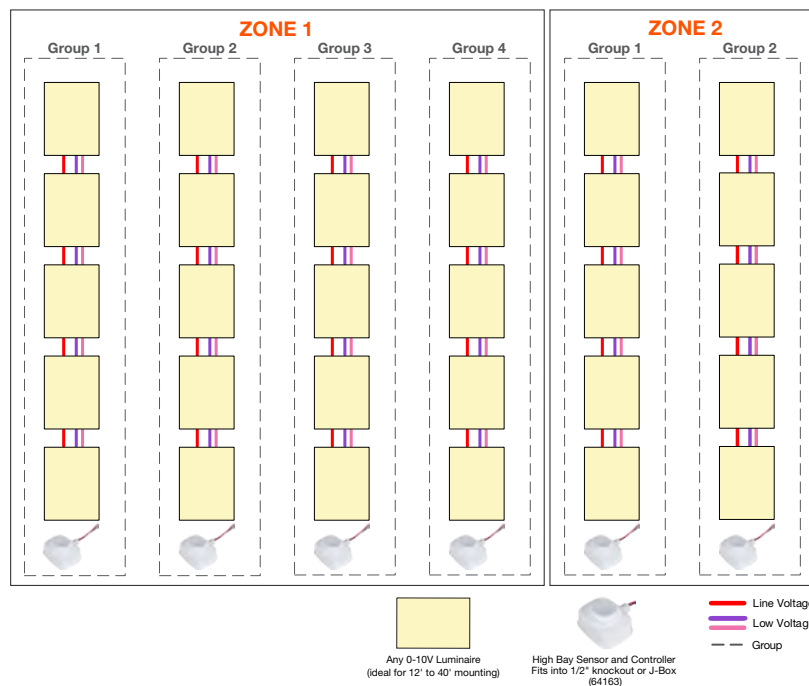


# MULTIPLE GROUPS WITH FIELD INSTALLABLE HARDWIRED HIGH BAY SENSOR/CONTROLLER



# TYPICAL LARGE WAREHOUSE WITH MULTIPLE GROUPS

## Hardwired Using Line Voltage High Bay Sensor



### LUMINAIRE REQUIREMENT

0-10V Dimming Driver

### USE APP FOR COMMISSIONING



### ADD OPTIONAL DEVICES



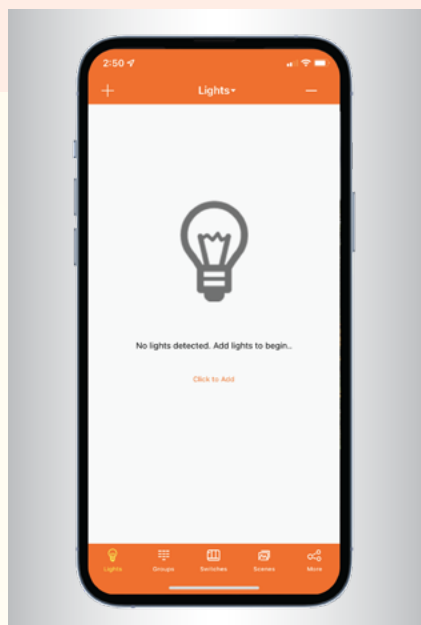


# LEDVANCE LINK™ APP: QUICK SET UP GUIDE



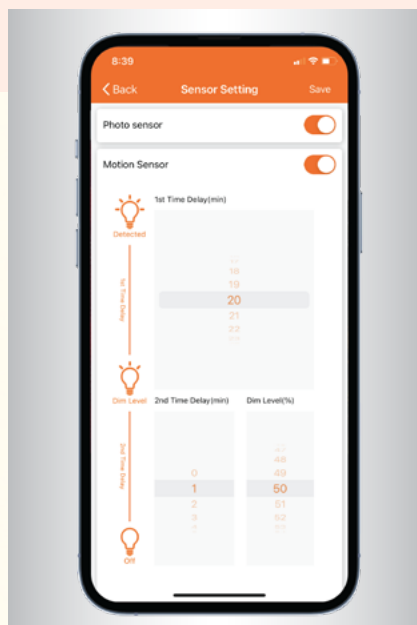
Commissioning and controlling LEDVANCE LINK™ Bluetooth® low energy mesh solution is all done using a simple, intuitive phone/tablet app for iOS and Android. You can add and configure individual luminaires, groups and zones. Add wall controllers, select scenes, set schedules and more. There are even built-in routines to help you optimize settings for optimum light quality and energy efficiency.





### Add/Remove Luminaires

- Add
- Remove
- Dimming



### Sensor Settings

- Occupancy
- Daylight harvesting
- Time delay/dim level
- Set high end trim



### Groups

- Add
- Delete
- Group Dimming



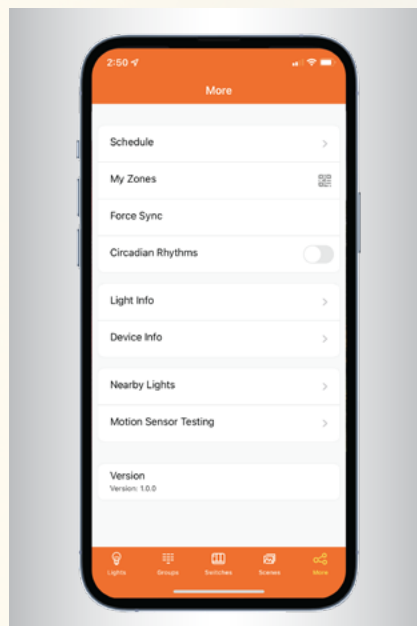
### Wireless Controller (Switch)

- Add wireless controllers
- Select scenes



### Scene Selection













- 3 Default scenes
- Sensor disabled in scene mode



### Additional Features

- Set schedules
- Device info
- Share QR codes











# PRODUCT GUIDE

		NAED	MODEL	FIXTURE CONTROLLER/ SENSOR TECHNOLOGY
HARDWIRED FIXTURE/ ZONE CONTROLLER		62631	POWERPACKOUT2.5AUNVBLE 50/CS 1/SKU	Bluetooth® mesh line voltage controller
		62632	POWERADAPTSSENSOROUT12VUNV 50/CS 1/SKU	Line voltage fixture power pack/controller with 12Vdc AUX
		63827	ZONECONTROLLER1AUNVBLE 50/CS 1/SKU	Load controllers
PLUG&PLAY FIXTURE CONTROLLER WITH SENSOR		62630	ADAPTERAUX12VBLE 100/CS 1/SKU	3.5mm Pin Bluetooth® mesh low voltage controller
		62634	SENSORHBPIRAUX12VBLE 100/CS 1/SKU	3.5mm Pin Bluetooth® mesh low voltage ceiling sensor & controller (PIR)
		63031 63032	SENSOR1AOD/PIRZ10BLEWH SENSOR1AOD/PIRZ10BLEBZ	Outdoor Zhaga sensor (PIR)
		63033	CONTROL1AOD12VZ10BLEWH	Outdoor Zhaga controller
LOW VOLTAGE SENSOR		62633	SENSORCEILINGPIR12VBLE 100/CS 1/SKU	Bluetooth® mesh low voltage ceiling sensor and controller (PIR)
		65785	ECOSENSORPIRAUX12V 100/CS 1/SKU	Low voltage plug & play sensor (PIR)
HARDWIRED SENSOR CONTROLLER		62635	SENSOREXTPIRUNVBLE 20/CS 1/SKU	Bluetooth® mesh line voltage sensor/controller (PIR)
		63830	DUALSENSOR1AUNVBLE 40/CS 1/SKU	Line voltage dual technology (PIR & ultrasonic) ceiling sensor & controller
		64163	SENSOREXTPIRUNVBLEG2 20/CS 1/SKU	Bluetooth® mesh line voltage sensor/controller (PIR)

	DESCRIPTION	COMMUNICATION RANGE	INSTALLATION TYPE
	– Suitable for applications such as classrooms, conference rooms, private offices, etc.	100'	– 120-277V – Wired – Fits into 1/2" knockout or J-Box
	– Suitable for applications such as classrooms, conference rooms, private offices, etc.	100'	– 120-277V – Wired – Fits into 1/2" knockout or J-Box
	– Suitable for applications such as classrooms, conference rooms, private offices, etc.	100'	– 120-277V – Wired – Fits into 1/2" knockout or J-Box
	– Luminaire-mountable controller – Suitable for linear high bay, UFO high bay, etc.	100'	– Screw-In
	– Luminaire-mountable daylight harvesting and PIR motion sensor – Suitable for linear high bay, strip, wrap, etc.	100'	– Screw-In
	– Luminaire-mountable daylight harvesting and PIR motion sensor – Suitable for area flood, wall packs	200'	– Twist Lock
	– Luminaire-mountable controller – Suitable for area flood, wall packs	200'	– Twist Lock
	– Remote-mountable daylight harvesting and PIR motion sensor – Suitable for small- to medium-size applications such as schools, offices, auditoriums, and warehouses	100'	– Ceiling Mount
	– Luminaire-mountable PIR motion sensor – Suitable for panels, door kits and troffers	50'	– Push-in
	– Suitable for high bay luminaires – Integrated PIR motion sensor and daylight sensor – This is a Generation 1 product refer to NAED: 64163 for Generation 2	100'	– 120-277V – Wired – Fits into 1/2" knockout or J-Box
	– Remote-mountable PIR/Ultrasonic motion sensor – Suitable for small- to medium-size applications such as schools, offices, auditoriums, and warehouses	100'	– Mounted on ceiling
	– Suitable for high bay luminaires – Integrated PIR motion sensor and daylight sensor – This is a Generation 2 product	100'	– 120-277V – Wired – Fits into 1/2" knockout or J-Box



# PRODUCT GUIDE

		NAED	MODEL	FIXTURE CONTROLLER/ SENSOR TECHNOLOGY
WALL CONTROLLERS		62636	WALLSWITCH5KEYBLE 40/CS 1/SKU	Wireless controller (no sensor)
		63829	WALLSWITCH1A3KEYUNVBLE 40/CS 1/SKU	Wired controller (no sensor)
ADAPTERS		62637	SIDEADAPTERAUX 100/CS 2/SKU	3.5mm Pin L-bracket receptacle
		62638	LUMADAPTERAUX 200/CS 5/SKU	Socket Adapter
		63652	SENSORADAPTOR1A 200/CS 1/SKU	Sensor Adapter
		63909	PINBRACKETLSHAPEADJUSTABLE 100/CS 1/SKU	3.5mm Pin adjustable L-bracket receptacle
		63958	WALPAKN9ASENSORADAPTER 50/CS 1/SKU	3-Pin Base L-bracket receptacle
ACCESSORIES		63653	BOOSTER1ABLE 100/CS 1/SKU	Signal booster
		63828	TIMECONTROLLER1ABLE 100/CS 1/SKU	Time clock module
		63831	OUTLET1AUNVBLE 40/CS 1/SKU	Plug load controller

	DESCRIPTION	COMMUNICATION RANGE	INSTALLATION TYPE
	<ul style="list-style-type: none"> <li>– Surface or recess mount</li> <li>– Up to 3 scenes can be created</li> <li>– Dim up and down</li> <li>– CR2032 battery included</li> </ul>	100'	– Wireless controller, battery powered
	<ul style="list-style-type: none"> <li>– Surface or recess mount</li> </ul>	100'	– Wired controller, electrical box
	<ul style="list-style-type: none"> <li>– Controller is mounted on the L-bracket which is attached to the 1/2" knockout on side of the luminaire</li> </ul>	N/A	– Fits into 1/2" knockout
	<ul style="list-style-type: none"> <li>– Adapter is needed to add 3.5mm LEDVANCE LINK™ sensor/controller</li> </ul>	N/A	– Screw-In
	<ul style="list-style-type: none"> <li>– Adapter is needed to add 3.5mm LEDVANCE LINK™ sensor/controller to a control ready luminaire with 3-pin receptacle</li> </ul>	N/A	– Screw-In
	<ul style="list-style-type: none"> <li>– L-shaped, adjustable bracket for PIR sensor 63908 and 3.5mm pin-based LEDVANCE LINK™ accessories</li> </ul>	N/A	– Screw-In
	<ul style="list-style-type: none"> <li>– L-shaped, daylight/motion sensor adapter</li> </ul>	N/A	– Screw-In
	<ul style="list-style-type: none"> <li>– Suitable for applications such as classrooms, conference rooms, private offices, etc.</li> <li>– Improves the quality and reliability of the mesh network</li> </ul>	100'	<ul style="list-style-type: none"> <li>– 120-277V</li> <li>– Wired</li> <li>– Fits into 1/2" knockout or J-Box</li> </ul>
	<ul style="list-style-type: none"> <li>– One per zone</li> <li>– CR2032 battery Included</li> </ul>	100'	– USB-A Receptacle
	<ul style="list-style-type: none"> <li>– Turns the load on/off</li> <li>– Pair with occupancy/vacancy sensors</li> <li>– Suitable for applications such as classrooms, conference rooms, private offices, etc.</li> </ul>	100'	<ul style="list-style-type: none"> <li>– 120-277V</li> <li>– Wired</li> <li>– Fits into 1/2" knockout or J-Box</li> </ul>

# LEDVANCEUS.COM

With offices in more than 50 countries and business activities in more than 140 countries, LEDVANCE is one of the world's leading general lighting providers for professional users and end consumers. In North America, LEDVANCE LLC offers a wide range of SYLVANIA LED luminaires for various applications, intelligent lighting products for Smart Homes and Buildings, one of the largest LED lamps portfolios in the industry, and traditional light sources. Further information can be found at [www.ledvanceUS.com](http://www.ledvanceUS.com).



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