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LEDVANCE

LEDVANCE LINK™
BLUETOOTH® LOW ENERGY MESH
NETWORKED LIGHTING CONTROL SOLUTION
FOR CONTRACTORS, FACILITY MANAGERS, AND OWNERS





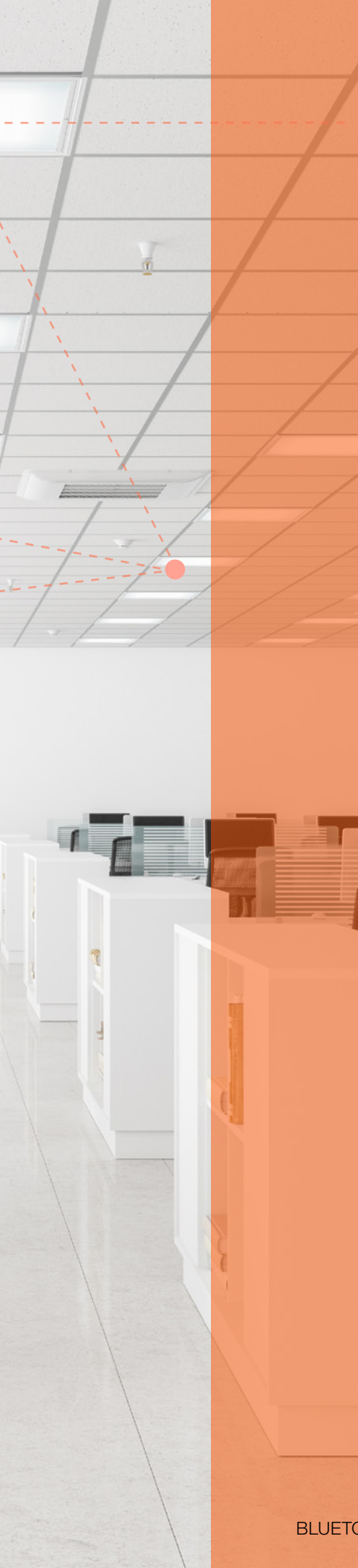


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EASY-TO-DEPLOY BLUETOOTH® CONTROL SYSTEM SAVES LABOR, MATERIAL, AND TIME

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 connected products are built with robust cybersecurity features to ensure safe and secure performance. The gateway-free networking technology delivers reliable, always-on operation.

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

FOR MORE INFORMATION CHECK OUT THE LINKS BELOW



US Department of Energy



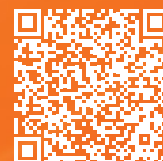
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DLC

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

Our connected products are designed with robust cybersecurity features to safeguard performance. The gateway-free networking technology provides reliable, always-on 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

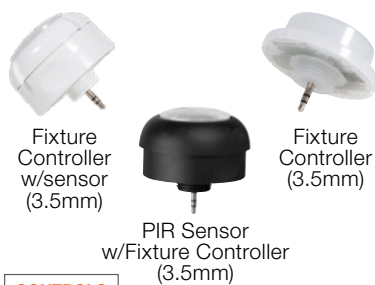
Installing LEDVANCE LINK™ is quick and easy using 3 installation methods: Plug&Play, Embedded in driver, or Hardwired. Giving you the most project flexibility.

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)



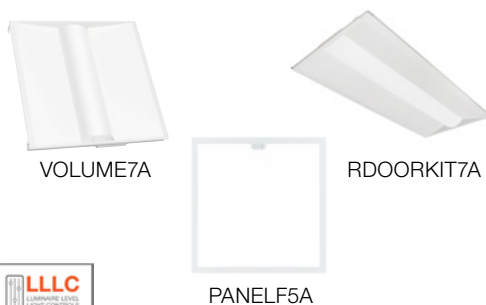
PLUG&PLAY



CONTROLS
READY

Use with Controls Ready products

EMBEDDED IN DRIVER



Adjustable CCT using app or wireless controller

HARDWIRED



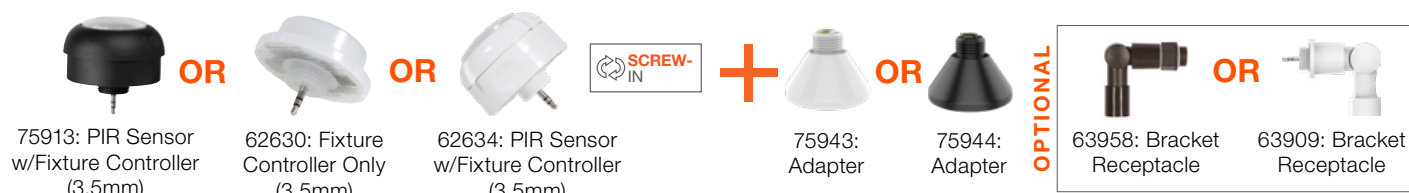
Use with ANY manufacturer's product

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



Use with Controls Ready products

PLUG&PLAY WITH WIRED ADAPTER



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

2 EMBEDDED IN DRIVER

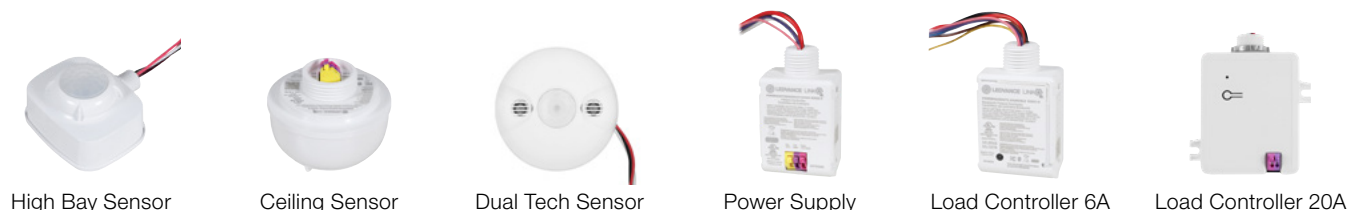
LLLC
LUMINAIRE LEVEL
LIGHT CONTROLS



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



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



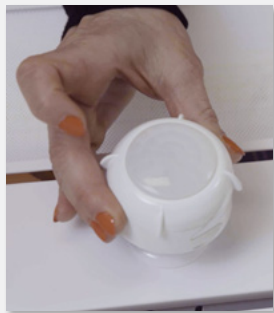
Remove the access cover with screwdriver to expose screw-in receptacle

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

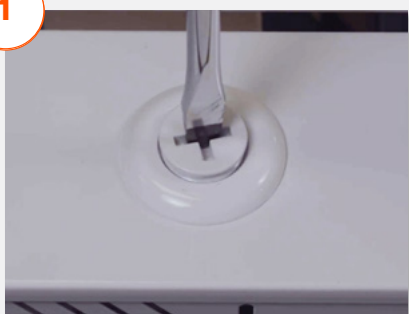


PLUG&PLAY IN 3 EASY STEPS

USING ADJUSTABLE BRACKET

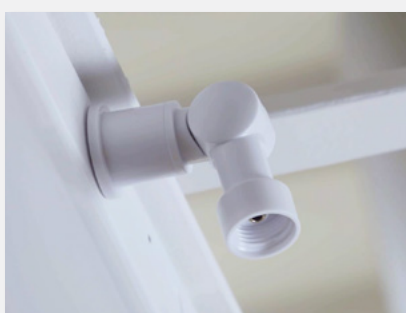


1



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



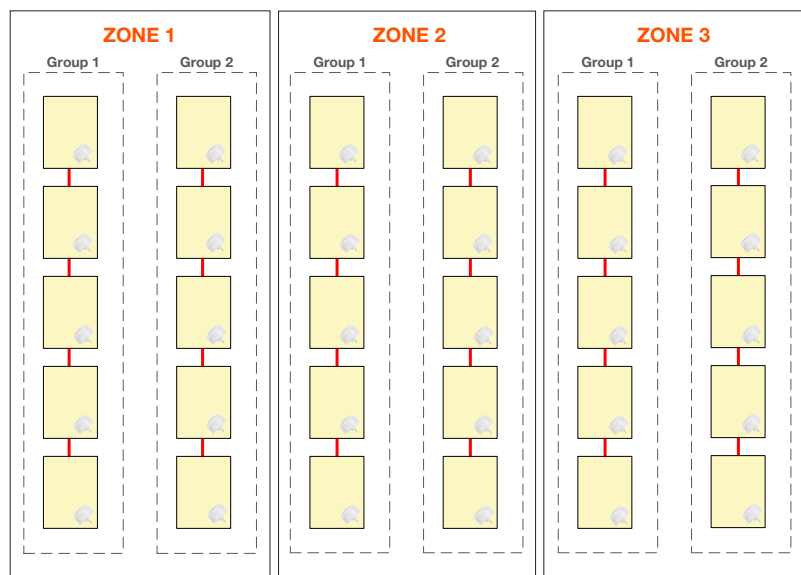
Screw-in the controller with sensor to the adjustable bracket. Adjust bracket position to achieve best sensor coverage

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



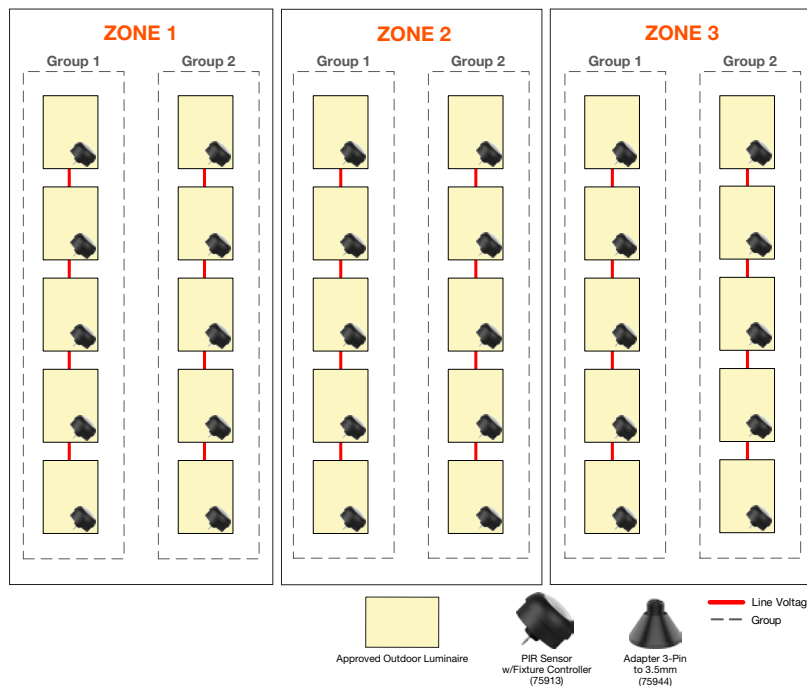
ADD OPTIONAL DEVICES





TYPICAL OUTDOOR PARKING LOT WITH MULTIPLE GROUPS

PLUG&PLAY Outdoor Fixture Controller with Sensor



LUMINAIRE REQUIREMENT

LEDVANCE Approved Outdoor Controls Ready 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

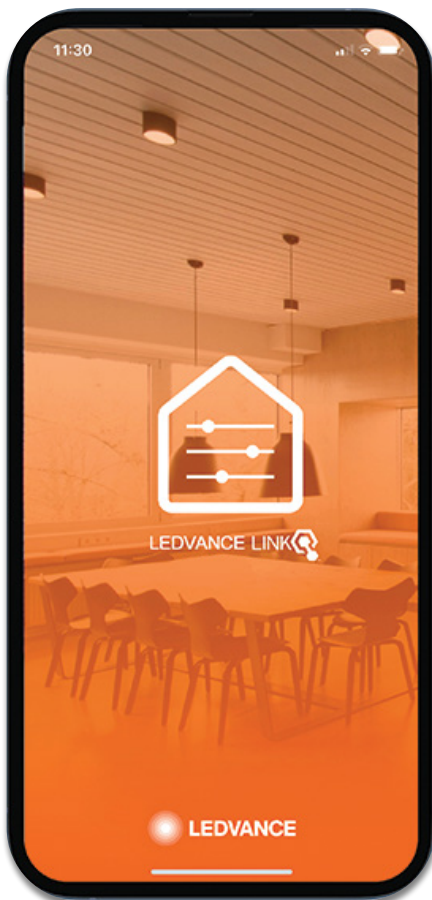
COMMISSIONING

Fast and simple via
LEDVANCE LINK™ app

3

CONTROL

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



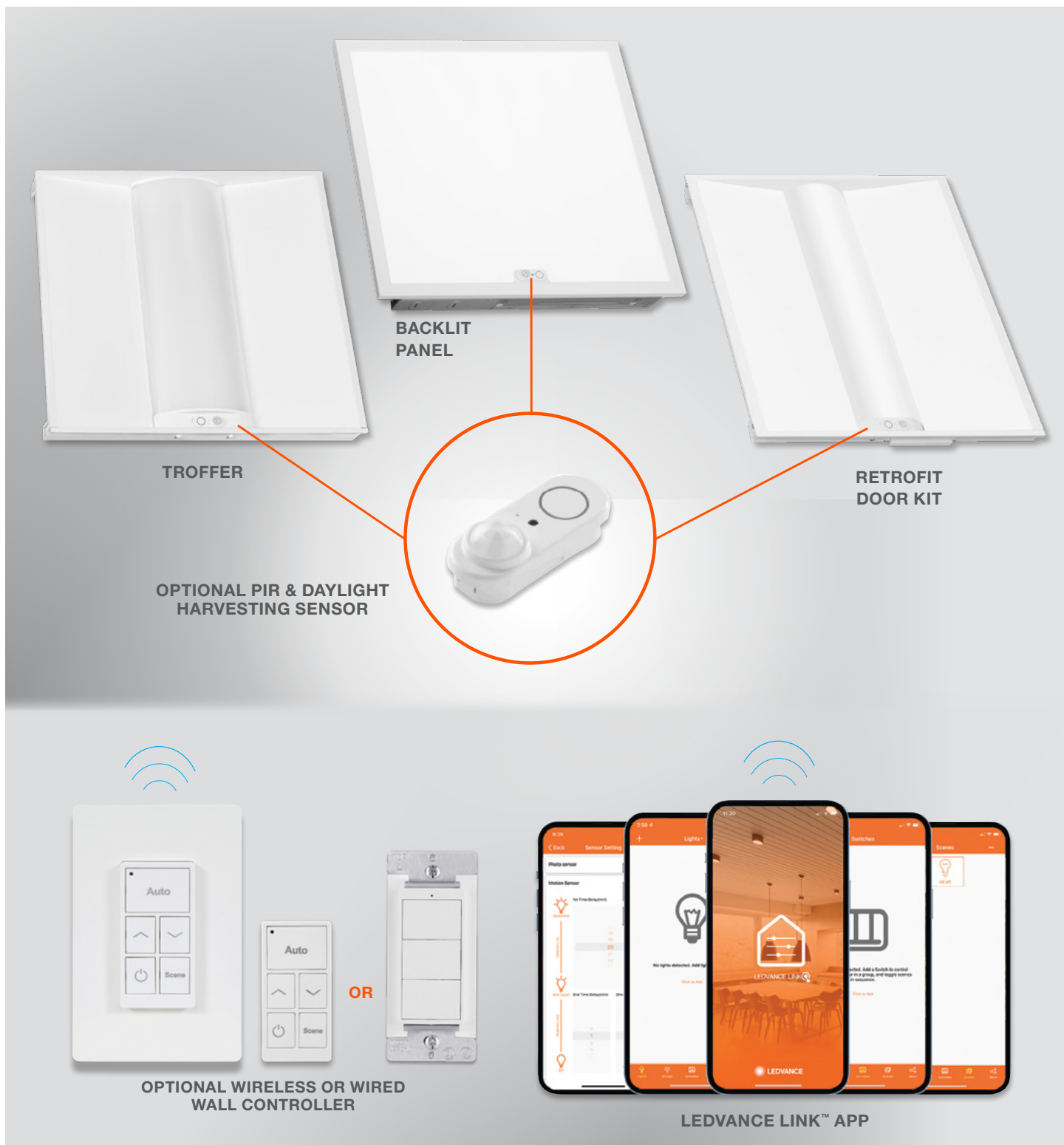
FUNCTIONALITY

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



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

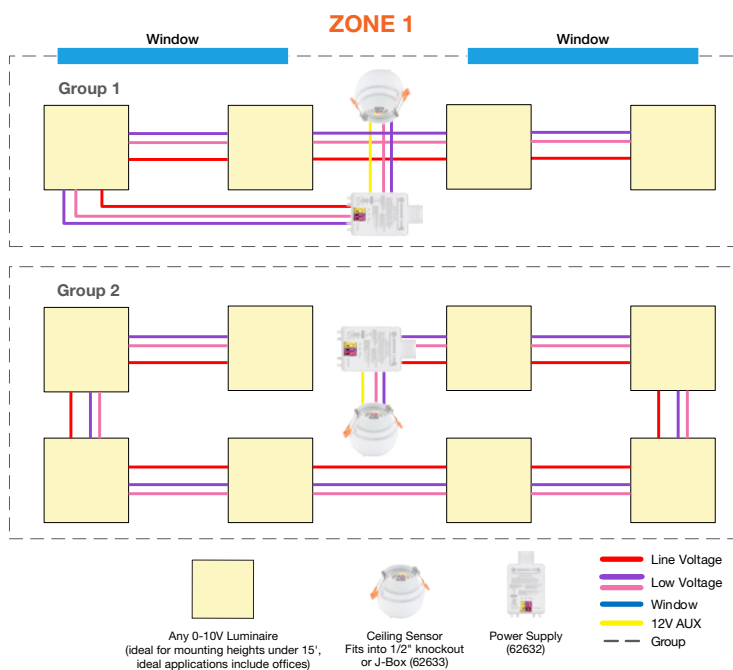


MULTIPLE GROUPS WITH FIELD INSTALLABLE HARDWIRED POWERPACK/ CONTROLLER WITH SENSOR



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



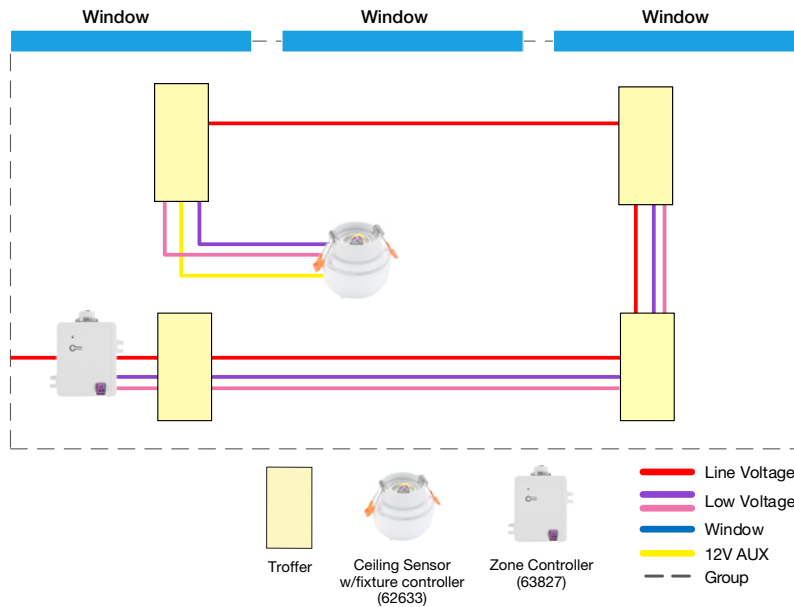
SINGLE GROUP WITH FIELD INSTALLABLE HARDWIRED SENSOR/CONTROLLER



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

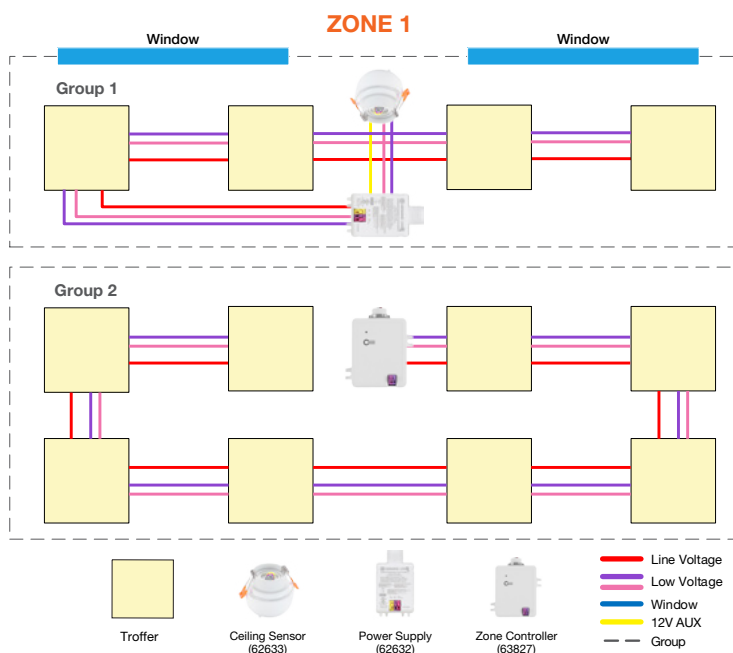


TWO GROUPS WITH FIELD INSTALLABLE HARDWIRED SENSOR/CONTROLLER



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

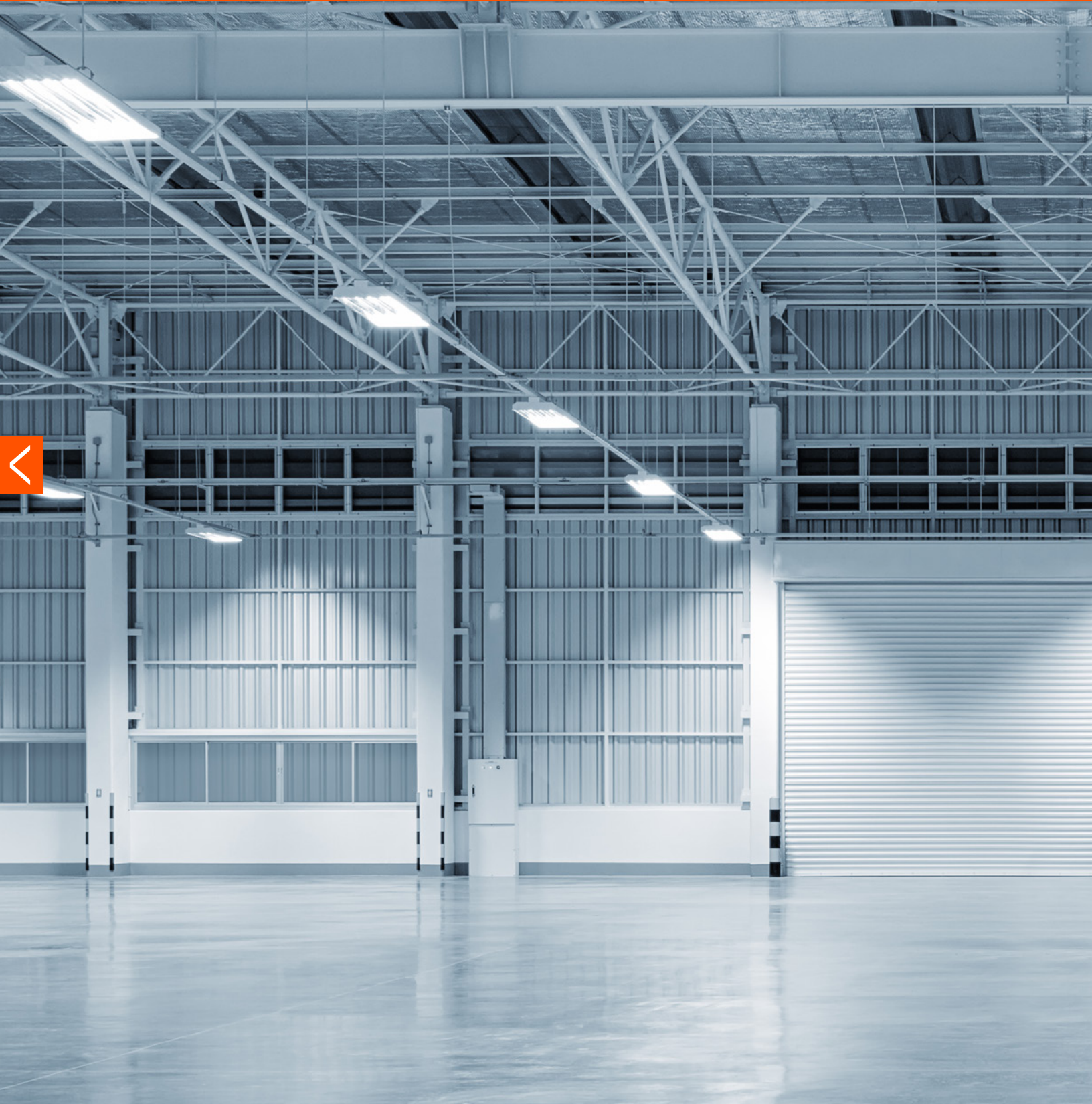
USE APP FOR COMMISSIONING



ADD OPTIONAL DEVICES

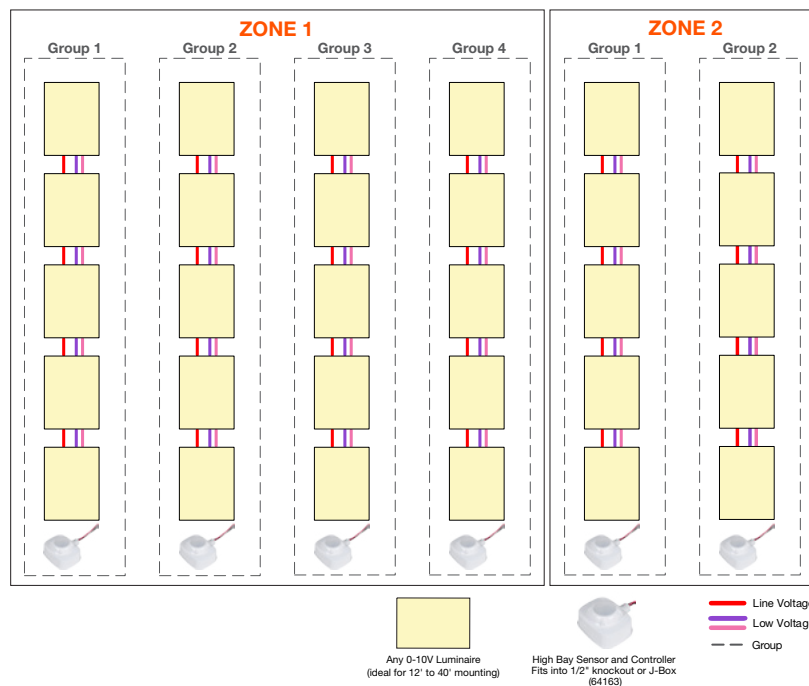


MULTIPLE GROUPS WITH FIELD INSTALLABLE HARDWIRED HIGH BAY SENSOR/CONTROLLER



TYPICAL LARGE WAREHOUSE WITH MULTIPLE GROUPS

Hardwired Using Line Voltage High Bay Sensor



LUMINAIRE REQUIREMENT

0-10V Dimming Driver

USE APP FOR COMMISSIONING



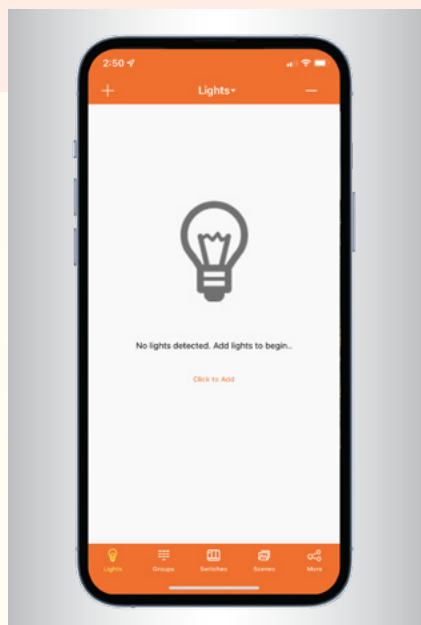
ADD OPTIONAL DEVICES



LEDVANCE LINK™ APP: QUICK SET UP GUIDE

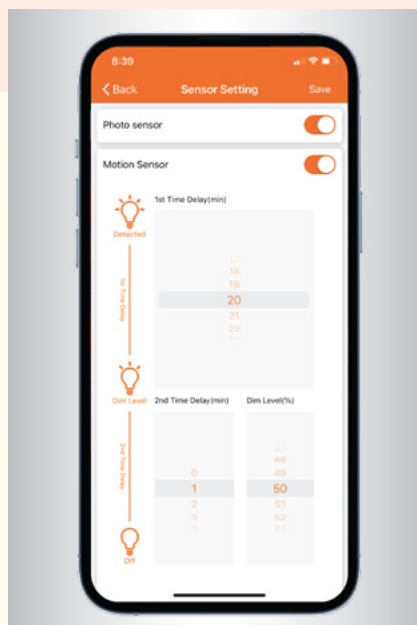


Commissioning and controlling LEDVANCE LINK™ Bluetooth® low energy mesh solution is all done using a simple, intuitive phone/tablet app for iOS and Android. You can add and configure individual luminaires, groups and zones. Add wall controllers, select scenes, set schedules and more. There are even built-in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



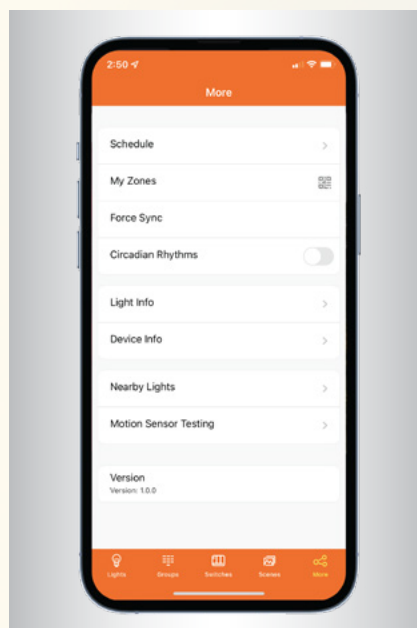
Wireless Controller (Switch)

- 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 12V _{DC} AUX
		63827	ZONECONTROLLER1AUNVBLE 50/CS 1/SKU	Load controllers
		75923	POWERPACK6AHUVBLE 50/CS 1/SKU	Bluetooth® Low Energy Mesh line voltage controller/powerpack 6A, Input 120-347V, 12V Aux
PLUG&PLAY FIXTURE CONTROLLER WITH SENSOR		62630	ADAPTERAUX12VBLE 100/CS 1/SKU	3.5mm Pin Bluetooth® mesh low voltage controller
		62634	SENSORHBPPIRAUX12VBLE 100/CS 1/SKU	3.5mm Pin Bluetooth® mesh low voltage ceiling sensor and controller (PIR)
		75913	SENSOR2ODPIR3.5BLEBLK	3.5mm PIR sensor with fixture controller, Outdoor IP66
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	SENSOREXTPIRUVBLE 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 and controller
		64163	SENSOREXTPIRUVBLEG2 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.	200'	– 120-277V – Wired – Fits into 1/2" knockout or J-Box
	– Suitable for applications such as classrooms, conference rooms, private offices, etc.	N/A	– 120-277V – Wired – Fits into 1/2" knockout or J-Box
	– Suitable for applications such as classrooms, conference rooms, private offices, etc.	200'	– 120-277V – Wired – Fits into 1/2" knockout or J-Box
	– Suitable for applications such as classrooms, conference rooms, private offices, etc.	200'	– 120-347V – 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.	200'	– Screw-In
	– Luminaire-mountable daylight harvesting and PIR motion sensor – Suitable for area flood, wall packs	200'	– Screw-In
	– 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
		75943	ADAPTER3P3.5SC 100/CS 1/SKU	Sensor Adapter
		75944	ADAPTER3P3.5SCBK 100/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
		63653	BOOSTER1ABLE 100/CS 1/SKU	Signal booster
		63828	TIMECONTROLLER1ABLE 100/CS 1/SKU	Time clock module
ACCESSORIES		63831	OUTLET1AUNVBLE 40/CS 1/SKU	Plug load controller

	DESCRIPTION	COMMUNICATION RANGE	INSTALLATION TYPE
	– Surface or recess mount – Up to 3 scenes can be created – Dim up and down – CR2032 battery included	100'	– Wireless controller, battery powered
	– Surface or recess mount	100'	– Wired controller, electrical box
	– Controller is mounted on the L-bracket which is attached to the 1/2" knockout on side of the luminaire	N/A	– Fits into 1/2" knockout
	– Adapter is needed to add 3.5mm LEDVANCE LINK™ sensor/controller	N/A	– Screw-In
	– Adapter is needed to add 3.5mm LEDVANCE LINK™ sensor/controller to a control ready luminaire with 3-pin receptacle	N/A	– Screw-In
	– Adapter is needed to add 3.5mm LEDVANCE LINK™ sensor/controller to a control ready luminaire with 3-pin receptacle	N/A	– Screw-In
	– L-shaped, adjustable bracket for PIR sensor 63908 and 3.5mm pin-based LEDVANCE LINK™ accessories	N/A	– Screw-In
	– L-shaped, daylight/motion sensor adapter	N/A	– Screw-In
	– Suitable for applications such as classrooms, conference rooms, private offices, etc. – Improves the quality and reliability of the mesh network	1800'	– 120-277V – Wired – Fits into 1/2" knockout or J-Box
	– One per zone – CR2032 battery Included	100'	– USB-A Receptacle
	– Turns the load on/off – Pair with occupancy/vacancy sensors – Suitable for applications such as classrooms, conference rooms, private offices, etc.	100'	– 120-277V – Wired – Fits into 1/2" knockout or J-Box

LEDVANCE.COM/EN-US

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 **LEDVANCE.COM/EN-US**.



LEDVANCE

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