



# [LOGICA]<sup>®</sup>












by **Beghelli**

2018








# Product Portofolio

<p><b>RELAY</b></p>	 <p>LOG-RLY</p>			
<p><b>NODES</b></p>	 <p>LOG-DRD</p>	 <p>LOG-DR10V</p>	 <p>LOG-10V12</p>	
<p><b>SENSORS</b></p>	 <p>LOG-LPML</p>	 <p>LOG-HPML</p>	 <p>LOG-ML2</p>	
<p><b>NODE W/ SENSOR</b></p>	 <p>LOG-HBKOD</p>	 <p>LOG-HBK010V</p>	 <p>LOG-MLD</p>	 <p>LOG-ML10V</p>
<p><b>SWITCHES</b></p>	 <p>LOG-ESRP</p>		 <p>LOG-EDRP</p>	
<p><b>INFRA- STRUCTURE</b></p>	 <p>LOG-EBOX</p>	 <p>LOG-AP3</p>	 <p>LOG-USB</p>	

LOGICA® DEVICES	TYPE OF CONTROL	OPTIONS	DRIVER		APPLICATION NOTES	BASIC (standard) SMART LIGHT			
			0-10V DIMMING	DALI		LOGICA® TOOL (free software download + LOG-USB)	USER INTERFACE - WIRELESS AND POWERLESS SWITCH		
RELAY	ZONE	 LOG-RLY (476100272)	0-10V	N.A.	- 0-10V DIMMING - MAXIMUM LOAD 16A ac - DAISY CHAIN UP TO n-FIXTURES (depends on FIXTURE load) - GROUP CONTROL - BACNET COMPATIBLE FOR ADVANCED CONFIGURATION	 LOGICACONFIG Software	 LOG-ESRP (476100273)		
NODE	FIXTURE WITH REMOTE SENSOR	 LOG-10V12 (476100271)	0-10V w/12V AUX. (30mA minimum)	N.A.	- 0-10V DIMMING - INDIVIDUAL CONTROL - GROUP CONTROL WITH SWITCH AND/OR SENSOR - DIM-TO-OFF DRIVER - BACNET COMPATIBLE FOR ADVANCED CONFIGURATION				
		 LOG-DR10V (476100310)							
NODE W/SENSOR	FIXTURE WITH BUILT-IN SENSOR	 LOG-ML10V (476100307)	0-10V w/12V AUX. (30mA minimum)	N.A.	- 0-10V DIMMING - INDIVIDUAL CONTROL - GROUP CONTROL WITH SWITCH AND/OR SENSOR - DIM-TO-OFF DRIVER - BACNET COMPATIBLE FOR ADVANCED CONFIGURATION			 LOG-USB (476100295)	 LOG-EDRP (476100314)
		 LOG-MLD (476100299)							
NODE W/SENSOR (KNOCK-OUT)	FIXTURE WITH BUILT-IN SENSOR	 LOG-HBK010V (476100283)	0-10V w/12V AUX. (30mA minimum)	N.A.	- 0-10V DIMMING - INDIVIDUAL CONTROL - GROUP CONTROL WITH SWITCH AND/OR SENSOR - DIM-TO-OFF DRIVER - BACNET COMPATIBLE FOR ADVANCED CONFIGURATION				
		 LOG-HBKOD (476100284)							

# ING CONTROL SOLUTION (LCS)

ING SOLUTION	ADVANCED (integrated) SMART LIGHTING SOLUTION	ADVANCED (integrated) SMART LIGHTING SOLUTION	BEGHELLI PRODUCTS			
SENSOR - WIRELESS & POWERLESS DAYLIGHT HARVESTING AND MOTION SENSOR	eBOX FOR INTERFACE TO BACnet BUILDING AUTOMATION SYSTEM (BAS)	ACCESS POINT FOR PC / TABLET / SMART PHONE / CONTROL / MONITORING	ACCIAIO® LED	BOXLED® & BOXLED® FLOOD	STRIPLED	VALORE
 LOG-ML2 (476100270)			<ul style="list-style-type: none"> <li>· BX910LED-4HT**</li> <li>· BX910LED-A-4HT**</li> <li>· BX920LED-4HT**</li> <li>· BX940LED-4HT**</li> </ul>	<ul style="list-style-type: none"> <li>· BL736LED-HT**</li> <li>· BL726LED-HT**</li> <li>· BL716LED-HT**</li> <li>· BL736LED-FL-HT**</li> </ul>	<ul style="list-style-type: none"> <li>· SLLED-4HT**</li> <li>· SLLED-8HT**</li> </ul>	<ul style="list-style-type: none"> <li>· V2**</li> <li>· V4**</li> </ul>
 LOG-ML2 (476100270)			<ul style="list-style-type: none"> <li>· BX910LED-4HT**</li> <li>· BX910LED-A-4HT**</li> <li>· BX920LED-4HT**</li> <li>· BX940LED-4HT**</li> </ul>	<ul style="list-style-type: none"> <li>· BL736LED-HT**</li> <li>· BL726LED-HT**</li> <li>· BL716LED-HT**</li> <li>· BL736LED-FL-HT**</li> </ul>		
 LOG-ML2 (476100270)	 LOG-EBOX (476100316)	 LOG-AP3 (476100318)	<ul style="list-style-type: none"> <li>· BX910LED-4HT**</li> <li>· BX910LED-A-4HT**</li> <li>· BX920LED-4HT**</li> <li>· BX940LED-4HT**</li> </ul>	<ul style="list-style-type: none"> <li>· BL736LED-HT**</li> <li>· BL726LED-HT**</li> <li>· BL716LED-HT**</li> <li>· BL736LED-FL-HT**</li> </ul>		
			<ul style="list-style-type: none"> <li>· BX910LED-4HT**</li> <li>· BX910LED-A-4HT**</li> <li>· BX920LED-4HT**</li> <li>· BX940LED-4HT**</li> </ul>	<ul style="list-style-type: none"> <li>· BL736LED-HT**</li> <li>· BL726LED-HT**</li> <li>· BL716LED-HT**</li> <li>· BL736LED-FL-HT**</li> </ul>		
			<ul style="list-style-type: none"> <li>· BX910LED-4HT**</li> <li>· BX910LED-A-4HT**</li> <li>· BX920LED-4HT**</li> <li>· BX940LED-4HT**</li> </ul>	<ul style="list-style-type: none"> <li>· BL736LED-HT**</li> <li>· BL726LED-HT**</li> <li>· BL716LED-HT**</li> <li>· BL736LED-FL-HT**</li> </ul>		
			<ul style="list-style-type: none"> <li>· BX910LED-4HT**</li> <li>· BX910LED-A-4HT**</li> <li>· BX920LED-4HT**</li> <li>· BX940LED-4HT**</li> </ul>	<ul style="list-style-type: none"> <li>· BL736LED-HT**</li> <li>· BL726LED-HT**</li> <li>· BL716LED-HT**</li> <li>· BL736LED-FL-HT**</li> </ul>		

BEGHELLI PRODUCTS

DRACO®	GRAN BELLA™ LED	ILLUMINA® FAMILY	PLANEX® ECO	NUVOLA	SPADA®	LEDLUMINA BS400
<ul style="list-style-type: none"> <li>· BS710LED**</li> <li>· BS720LED**</li> <li>· BS730LED**</li> </ul>	<ul style="list-style-type: none"> <li>· BS830LED**</li> </ul>	<ul style="list-style-type: none"> <li>· BS100LED-4HT**</li> <li>· BS100LED-2HT**</li> <li>· BS100LED-PLUS-2HT**</li> <li>· BS100LED-PLUS-PG-2HT**</li> <li>· BS100LED-PG-4HT**</li> <li>· BS101LED-4HT**</li> <li>· BS101LED-ECO-4HT**</li> <li>· BS100LED-A-4HT**</li> <li>· BS100LED-A-2HT**</li> <li>· SCA2-HT**</li> <li>· BS100LED-X-4HT**</li> </ul>	<ul style="list-style-type: none"> <li>· PLX-E-2**</li> <li>· PLX-E-4**</li> </ul>	<ul style="list-style-type: none"> <li>· NUVHT**</li> <li>· NUV-NSF-HT**</li> <li>· NUV-SL</li> </ul>	<ul style="list-style-type: none"> <li>· SPAHT**</li> </ul>	<ul style="list-style-type: none"> <li>· BS400LED-HT**</li> </ul>
<ul style="list-style-type: none"> <li>· BS710LED**</li> <li>· BS720LED**</li> <li>· BS730LED**</li> </ul>	<ul style="list-style-type: none"> <li>· BS830LED**</li> </ul>	<ul style="list-style-type: none"> <li>· BS100LED-4HT**</li> <li>· BS100LED-2HT**</li> <li>· BS100LED-PLUS-2HT**</li> <li>· BS100LED-PLUS-PG-2HT**</li> <li>· BS100LED-PG-4HT**</li> <li>· BS101LED-4HT**</li> <li>· BS101LED-ECO-4HT**</li> <li>· BS100LED-A-4HT**</li> <li>· BS100LED-A-2HT**</li> </ul>				<ul style="list-style-type: none"> <li>· BS400LED-HT**</li> </ul>
<ul style="list-style-type: none"> <li>· BS710LED**</li> <li>· BS720LED**</li> <li>· BS730LED**</li> </ul>	<ul style="list-style-type: none"> <li>· BS830LED**</li> </ul>	<ul style="list-style-type: none"> <li>· BS100LED-4HT**</li> <li>· BS100LED-2HT**</li> <li>· BS100LED-PLUS-2HT**</li> <li>· BS100LED-PLUS-PG-2HT**</li> <li>· BS100LED-PG-4HT**</li> <li>· BS101LED-4HT**</li> <li>· BS101LED-ECO-4HT**</li> <li>· BS100LED-A-4HT**</li> <li>· BS100LED-A-2HT**</li> </ul>				<ul style="list-style-type: none"> <li>· BS400LED-HT**</li> </ul>
		<ul style="list-style-type: none"> <li>· BS100LED-4HT**</li> <li>· BS100LED-2HT**</li> <li>· BS100LED-PLUS-2HT**</li> <li>· BS100LED-PLUS-PG-2HT**</li> <li>· BS100LED-PG-4HT**</li> <li>· BS101LED-4HT**</li> <li>· BS101LED-ECO-4HT**</li> <li>· BS100LED-A-4HT**</li> <li>· BS100LED-A-2HT**</li> <li>· BS100LED-X-4HT**</li> </ul>				<ul style="list-style-type: none"> <li>· BS400LED-HT**</li> </ul>
		<ul style="list-style-type: none"> <li>· BS100LED-4HT**</li> <li>· BS100LED-2HT**</li> <li>· BS100LED-PLUS-2HT**</li> <li>· BS100LED-PLUS-PG-2HT**</li> <li>· BS100LED-PG-4HT**</li> <li>· BS101LED-4HT**</li> <li>· BS101LED-ECO-4HT**</li> <li>· BS100LED-A-4HT**</li> <li>· BS100LED-A-2HT**</li> <li>· BS100LED-X-4HT**</li> </ul>				<ul style="list-style-type: none"> <li>· BS400LED-HT**</li> </ul>
		<ul style="list-style-type: none"> <li>· BS100LED-4HT**</li> <li>· BS100LED-2HT**</li> <li>· BS100LED-PLUS-2HT**</li> <li>· BS100LED-PLUS-PG-2HT**</li> <li>· BS100LED-PG-4HT**</li> <li>· BS101LED-4HT**</li> <li>· BS101LED-ECO-4HT**</li> <li>· BS100LED-A-4HT**</li> <li>· BS100LED-A-2HT**</li> <li>· BS100LED-X-4HT**</li> </ul>				
		<ul style="list-style-type: none"> <li>· BS100LED-4HT**</li> <li>· BS100LED-2HT**</li> <li>· BS100LED-PLUS-2HT**</li> <li>· BS100LED-PLUS-PG-2HT**</li> <li>· BS100LED-PG-4HT**</li> <li>· BS101LED-4HT**</li> <li>· BS101LED-ECO-4HT**</li> <li>· BS100LED-A-4HT**</li> <li>· BS100LED-A-2HT**</li> <li>· BS100LED-X-4HT**</li> </ul>				
		<ul style="list-style-type: none"> <li>· BS100LED-4HT**</li> <li>· BS100LED-2HT**</li> <li>· BS100LED-PLUS-2HT**</li> <li>· BS100LED-PLUS-PG-2HT**</li> <li>· BS100LED-PG-4HT**</li> <li>· BS101LED-4HT**</li> <li>· BS101LED-ECO-4HT**</li> <li>· BS100LED-A-4HT**</li> <li>· BS100LED-A-2HT**</li> <li>· BS100LED-X-4HT**</li> </ul>				

# LOGICA®

by **Beghelli**

## The first & complete Smart Lighting Control Solution that is:

- Flexible
- Smart
- Wireless
- Integrated
- Secure
- Scalable
- Powerless
- Commissioning

**LOGICA®** is an affordable and customizable automation solution that allows for increased comfort, greater flexibility, and convenience for your lighting control needs. **LOGICA®** utilizes leading edge wireless communication and battery free technology that makes your lighting control very easy to use. With no wires to run and no batteries to replace, **LOGICA®** basic and advanced solutions are secure, scalable, flexible, convenient commissioning, and easy to install.

### APPLICATIONS

**LOGICA®** simply deploys an energy management solution to your lighting control needs. It provides energy savings by controlling lighting based on occupancy or daylight harvesting; by dimming and monitoring lights to maximize savings and utilize ambient sunlight making it a perfect solution to be used indoor & outdoor. It utilizes EnOcean communication protocol and LOGICACONFIG Software.

EnOcean is an energy harvesting technology that combines micro energy converters with ultra-low power electronics which enables wireless communications between batteryless - wireless sensors, switches, controller, and gateways.

### WIRELESS COMMUNICATION

**LOGICA®** offers a unique software platform augmented by wireless devices to drive the data; and a secure, open radio protocol with limited interference and exceptional distance. It needs no wires for controlling your lighting and its interoperability make it capable to work with other protocols like BACnet.

### SCALABILITY

One of the most important features **LOGICA®** has is its scalability. **LOGICA®** has an easy to do scaling from basic stand alone configuration with sensors, and controllers to an advanced configuration with gateways and mobile apps that allows to monitor, configure and manage multiple locations in real-time. It simply allows the consumer to create their own lighting control solution with the help of EnOcean transmission protocol.

FREE easy commissioning. Just download the LOGICACONFIG Software.

**B**  
**LOGICA®**  
**CONFIG**

# ■ ■ ■ Features & Benefits

Wireless	<ul style="list-style-type: none"> <li>• No wires needed for controls.</li> <li>• Strong RF signal that works through doors and walls.</li> <li>• 150 ft. typical wireless range.</li> <li>• Compatible with BACnet protocol.</li> <li>• Dedicated frequency specifically designed for this solution.</li> </ul>
Powerless	<ul style="list-style-type: none"> <li>• No batteries, maintenance free.</li> <li>• Easy to install.</li> <li>• Energy harvesting.</li> <li>• Solar-powered wireless sensors.</li> <li>• Kinetic powered switches.</li> <li>• Reduces energy consumption.</li> </ul>
Integrated	<ul style="list-style-type: none"> <li>• Sensing and control as one solution.</li> <li>• Integration of drivers with controls.</li> <li>• Global dominant protocols: 0-10V, DALI, PWM.</li> </ul>
Commissioning	<ul style="list-style-type: none"> <li>• Easy commissioning using LogicaConfig.</li> <li>• Software with friendly user interface.</li> <li>• Factory commissioning available.</li> <li>• Free LogicaConfig Software for Windows and IOS.</li> </ul>
Flexible	<ul style="list-style-type: none"> <li>• Be able to change locations of switches and external sensors without re-wiring.</li> <li>• Be able to modify settings and configurations remotely.</li> <li>• Create and rearrange groups of luminaires and devices.</li> <li>• Ideal for retrofit kits.</li> </ul>
Secure	<ul style="list-style-type: none"> <li>• Restricted to authorized users.</li> <li>• 128 AES encryption.</li> </ul>
Smart	<ul style="list-style-type: none"> <li>• Automated and programmable lighting solution.</li> <li>• Advanced capabilities such as tunable controls and occupancy needs.</li> <li>• Energy savings options that include occupancy sensors, time of the day scheduling and daylight harvesting.</li> <li>• Mobile apps that allows to monitor, configure and manage multiple locations in real-time.</li> </ul>
Scalable	<ul style="list-style-type: none"> <li>• Create your own lighting control solution.</li> <li>• Expandable solution from basic to advanced topology.</li> <li>• Add-on as needed.</li> </ul>

## LOG-RLY

CIRCUIT BASED LIGHTING CONTROL MODULE

TITLE 24 TITLE 20   



### DESCRIPTION

The LOG-RLY Lighting Control Module responds to a variety of wireless EnOcean devices to control and dim LED drivers, fluorescent ballasts, or other switchable loads.

Offers bi-directional, ON/OFF and 0-10V dimming control (when combined with a wireless light switch).

Can perform occupancy-based setback dimming and self-contained daylight harvesting functions.

For single or multiple fixtures on/off or dimming control applications.








### FEATURES

- Level 1 or level 2 wireless repeater.
- Built-in Proportional-Integral (PI) Controller.
- Full range dimming for advanced daylighting control.
- Zero crossing activation determined by user.
- Built in dawn control.
- Customizable scene control.
- Adjustable ramping speed/rate of dimming.

### OPERATION

- 100 to 277 VAC
- Includes one relay to switch up to 20A amps.
- 0-10V DC output for control of dimmable loads, including electronic ballasts.
- Receives signals from wireless sensors, switches and software.

### RELAY COMPATIBLE WITH LOGICA® DEVICES:

						
	LOG-ML2 sensor	LOG-ESRP / LOG-ESRP switches	LOGICACONFIG software	LOG-USB usb stick	LOG-EBOX gateway	LOG-AP3 interface

### RELAY SUITABLE WITH BEGHELLI LUMINAIRES:

							
	ACCIAIO® LED	BOXLED®	STRIPLED	VALORE	DRACO® LED	GRAN BELLA™ LED	ILLUMINA® FAMILY
							
	PLANEX®	PLANEX® ECO	NUVOLA	SPADA®	LEDLUMINA BS400		

\*See Configuration Chart



## LOG-DRD

IN FIXTURE DALI NODE (POWERED BY DRIVER OR DALI POWER SUPPLY)

TITLE 24 TITLE 20  
    
 IEC 62386-101 / IEC 62386-103



### DESCRIPTION

LOG-DRD converts wireless EnOcean incoming signals into DALI commands. Provides for bi-directional, fixture level wireless DALI lighting control integration.

Can be paired with a variety of sensors and switches for standalone operation, incorporated into a networked lighting system or integrated to BACnet utilizing the LOG-EBOX gateway.

Configuration of four individual channels. Including a full range dimming table, customizable scene control, built in dawn control, adjustable ramping speeds as well as adjustable rates of dimming.

### FEATURES

- Mounts conveniently to driver.
- Remotely configurable.
- Connection for optional motion / lux sensor.

### OPERATION

- Powered by any DALI power supply or with Philips Xitanium SR driver.
- Energy reporting at fixture level (if driver is compatible).

### OPTIONS IN OPERATION

- Local Control: An on board microprocessor and memory allows for standardized operation at the driver level, eliminating the reliance on software or network configuration. LOG-DRD can be utilized out of the box with default settings, or configured for advanced operation by leveraging the USB dongle (LOG-USB). Preferences and settings can be made by remote configuration, even after installed.
- Integration to BAS: It has the ability to communicate through LOG-EBOX and into an existing building automation system (BAS). The convergence of lighting and building automation allows for granular information to be communicated to the BAS for improved operational efficiency.

## LOG-DR10V

IN FIXTURE 0-10V LIGHTING CONTROL FOR DIM-TO-OFF DRIVERS

TITLE 24 TITLE 20  
  



### DESCRIPTION

LOG-DR10V is integrated into the lighting network at the fixture level, and gives the flexibility to incorporate lighting control. It can be mounted onto a new fixture or retrofitted after.

This node communicates wirelessly over radio frequency to compatible wireless end devices, including occupancy sensors, LUX sensors, light switches and more.

With the LOG-EBOX, LOG-DR10V can be integrated into an existing BACnet based building automation system (BAS).

### FEATURES

- Wireless communication.
- In fixture installation.
- Connection for optional motion / lux sensor.

### OPERATION

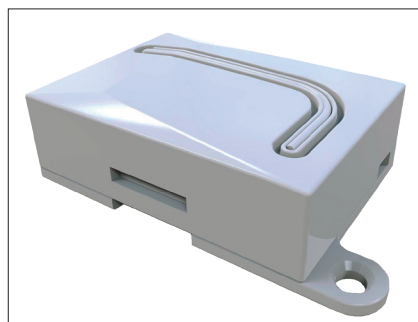
- Compatible with 0-10V, dim-to-off LED drivers.
- Allows for multiple drivers to be connected together through the 0-10V output.
- Powered through available low voltage from the driver or an available 12-36 VDC, 12-24 VAC source near the fixture level.
- 0-10V dimming and dim-to-off functionality, with compatible LED drivers.
- Provides continuous dimming control to conserve energy, simplify maintenance and personalize the lighting environment.

\*CERTIFICATIONS PENDING

## LOG-10V12

IN FIXTURE 0-10V LIGHTING CONTROL FOR DIM-TO-OFF DRIVERS (1 CHANNEL)

TITLE 24  
TITLE 20



### DESCRIPTION

LOG-10V12 is integrated into the lighting network at the fixture level, and gives the flexibility to incorporate lighting control. It can be mounted onto a new fixture or retrofitted after.

This node communicates wirelessly over radio frequency to compatible wireless end devices, including occupancy sensors, LUX sensors, light switches and more.

With the LOG-EBOX, LOG-10V12 can be integrated into an existing BACnet based building automation system (BAS).

### FEATURES

- Wireless communication.
- In fixture installation.
- Connection for optional motion / lux sensor.

### OPERATION

- Compatible with 0-10V, dim-to-off LED drivers.
- Allows for multiple drivers to be connected together through the 0-10V output.
- Powered through available low voltage from the driver or an available 12-36 VDC, 12-24 VAC source near the fixture level.
- 0-10V dimming and dim-to-off functionality, with compatible LED drivers.
- Provides continuous dimming control to conserve energy, simplify maintenance and personalize the lighting environment.
- Local Control: An on board microprocessor and memory allows for standardized operation at the fixture level, eliminating the reliance on software or network configuration. LOG-10V12 can be utilized out of the box with default settings, or configured for advanced operation.
- Integration to BAS: It has the ability to communicate information through LOG-EBOX and into an existing building automation system (BAS). The convergence of lighting and building automation allows for granular information to be communicated to the BAS for improved operational efficiency.

### NODES COMPATIBLE WITH LOGICA® DEVICES:

	LOG-ML2 sensor	LOG-ESRP / LOG-ESRP switches	LOGICACONFIG software	LOG-USB usb stick	LOG-EBOX gateway	LOG-AP3 interface

### NODES SUITABLE WITH BEGHELLI LUMINAIRES:

	ACCIAIO® LED	BOXLED®	DRACO® LED	GRAN BELLA™ LED	ILLUMINA® FAMILY	LEDLUMINA BS400

\*See Configuration Chart

## LOG-LPML

WIRED PIR SENSOR (LOW BAY)

IP65

TITLE 24  
TITLE 20



### DESCRIPTION

LOG-LPML includes a digital LUX sensor and a PIR occupancy sensor (Digital Passive IR motion sensor).

The two piece scenario allows for flexibility when installing into fixtures where there isn't significant room for an all-in-one option.

This node is rated for up to 15 ft (4.5 m).

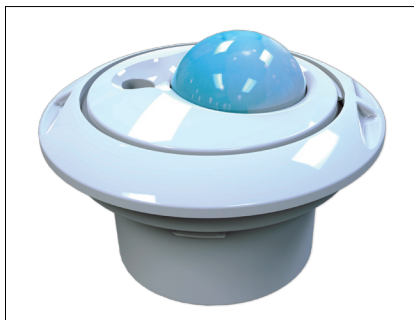
IP65. For outdoor applications.

## LOG-HPML

WIRED PIR SENSOR (HIGH BAY)

IP65

TITLE 24  
TITLE 20



### DESCRIPTION

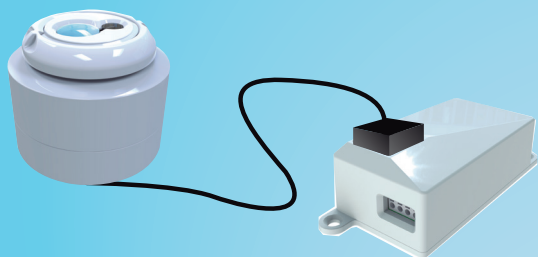
LOG-HPML includes a digital LUX sensor and a PIR occupancy sensor (Digital Passive IR motion sensor).

The two piece scenario allows for flexibility when installing into fixtures where there isn't significant room for an all-in-one option.

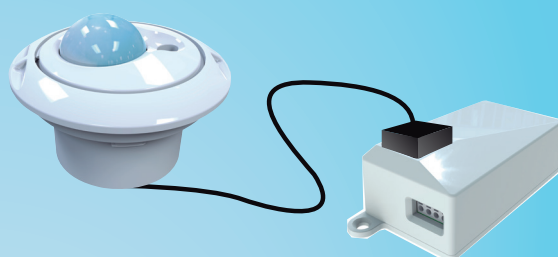
This node is rated for up to 39 ft (11 m).

IP65. For outdoor applications.

LOG-LPML (Low-Bay) and LOG-HPML (High-Bay) work together with the LOG-DR10V node.  
The separate node is optional and is available for both LOG-LPML & LOG-HPML.



LOG-LPML + LOG-DR10V



LOG-HPML + LOG-DR10V

\*CERTIFICATIONS PENDING

## LOG-ML2

MOTION / LIGHT SENSOR

TITLE 24 TITLE 20  



### DESCRIPTION

LOG-ML2 is a wireless, self powered, passive infrared sensor that ensures reliable detection of occupant presence.

When paired with a LOGICA® Relay (LOG-RLY) and a LOGICA® wireless rocker switch (LOG-ESRP), the sensor creates an out of the box, cost effective, lighting control system.

When combined with an MES gateway (LOG-EBOX), it can be integrated into an existing BACnet-compatible building automation system.

### FEATURES

- Ideally suited for occupancy based lighting control.
- Provides for indoor daylight harvesting functionality, with a light range of 0-1020lx.

### OPERATION

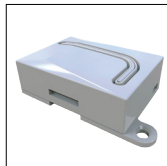
- Built in solar cells, it stores energy from available ambient light. An optional battery backup is available for locations with low or no ambient light.
- The device must be placed where sensing is required.
- Must be paired with a receiver. The device pairs manually to compatible devices by pressing the LRN button.

### SENSORS COMPATIBLE WITH LOGICA® DEVICES:

**[LOGICA]**  
by BEGHELLI



\*Only LOG-ML2  
LOG-RLY  
relay



LOG-10V12  
node



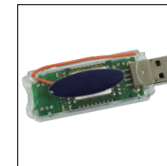
\*Only LOG-LPML & LOG-HPML  
LOG-DR10V  
node



\*Only LOG-LPML & LOG-HPML  
LOG-DRD  
node



LOGICACONFIG  
software



LOG-USB  
usb stick



LOG-EBOX  
gateway



LOG-AP3  
interface

### SENSORS SUITABLE WITH BEGHELLI LUMINAIRES:

**Beghelli**



ILLUMINA® FAMILY



LEDLUMINA BS400

\*See Configuration Chart

## LOG-HBKOD

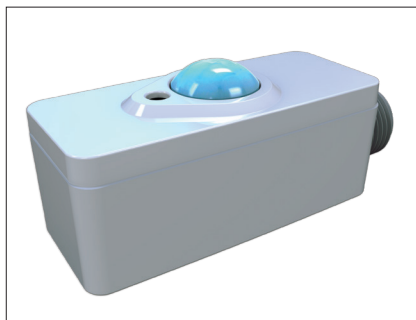
FIXTURE INTEGRATED LIGHTING CONTROL

IP65

TITLE 24  
TITLE 20



IEC 62386-101 / IEC 62386-103



### DESCRIPTION

The LOG-HBKOD node bi-directionally communicates data to and from the lighting control network. Easy to integrate into a high bay fixture through an available half inch knock out.

Includes a digital PIR and ambient light sensing for daylight harvesting applications (rated for ceilings up to 39 ft) and a very accurate occupancy detection.

Provides data points such as: occupancy status, light levels and light status.

### FEATURES

- Light Level.
- Wireless communication.
- Full digital passive infrared.
- Remotely configurable.
- Energy reporting at fixture level.
- Designed for plug and play applications.
- Zone control allows multiple fixtures to share data.

### OPERATION

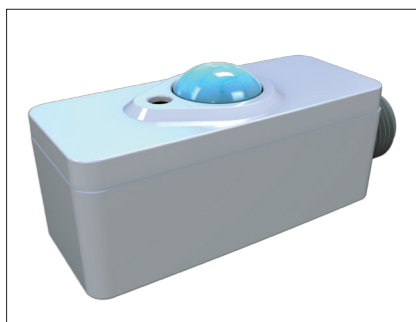
- When connected to a Philips Advanced Xitanium SR LED driver, it is able to be powered and extract critical data from the driver, including power reading.

## LOG-HBKO10V

FIXTURE INTEGRATED 0-10V LIGHTING CONTROL FOR DIM-TO-OFF DRIVERS

IP65

TITLE 24  
TITLE 20



### DESCRIPTION

The LOG-HBKO10V node bi-directionally communicates data to and from the lighting control network. Easy to integrate into a high bay fixture through an available half inch knock out.

Includes a digital PIR and ambient light sensing for daylight harvesting applications (rated for ceilings up to 39 ft), as well as very accurate occupancy detection.

Provides data points such as: occupancy status, light levels and light status.

### FEATURES

- Wireless communication.
- Full digital passive infrared for occupancy sensing
- Remotely configurable.
- Configurable for advanced settings.
- Designed for plug and play applications.

### OPERATION

- Powered from driver or any available 12-24VAC / 12-36VDC source.
- Compatible with 0-10V, dim-to-off LED drivers.

\*CERTIFICATIONS PENDING

## LOG-MLD

FIXTURE INTEGRATED DALI LIGHTING CONTROL

TITLE 24 TITLE 20   

IEC 62386-101 / IEC 62386-103



### DESCRIPTION

The LOG-MLD node easily integrates into small lighting fixtures or customized housings, it is architecturally and aesthetically pleasing.

Includes digital PIR and ambient light sensing for daylight harvesting applications, as well as occupancy based ON/OFF control.

The EnOcean to BACnet gateway (LOG-EBOX) allows for seamless integration to any BACnet based building automation system. Light levels, occupancy status and data on the energy consumption of each fixture can be incorporated and utilized by the BAS.

### FEATURES

- Light level / dimming.
- Wireless communication.
- Full digital passive infrared for occupancy sensing.
- Easy and seamless integration at the fixture level.
- Remotely configurable.
- Configurable for advanced settings.
- Designed for plug and play applications.

### OPERATION

- Control up to 4 drivers.
- Compatible with Philips Xitanium SR driver or DALI driver, delivering fully connected fixtures.
- No need for extra relays and control devices (when paired with compatible LED drivers).

### OPTIONS IN OPERATION

- Local Control: An on board microprocessor and memory allow for standardized operation at the fixture level, eliminating the reliance on software or network configuration. LOG-MLD can be utilized out of the box with default settings or configured for advanced operation. Configuration can be done prior, during or after installation.
- Integration to BAS: It has the ability to communicate information through LOG-EBOX and into an existing building automation system (BAS). Philips Advanced Xitanium SR LED driver, provides energy reporting data that is communicated to the LOG-EBOX and visualized in the BAS. The convergence of lighting and building automation allows for granular information to be communicated to the BAS for improved operational efficiency. Must be paired with a receiver. The device pairs manually to compatible devices by pressing the LRN button.

\*CERTIFICATIONS PENDING

## LOG-ML10V

FIXTURE INTEGRATED 0-10V LIGHTING CONTROL FOR DIM-TO-OFF DRIVERS

TITLE 24  
TITLE 20



### DESCRIPTION

LOG-ML10V node easily customized housings, it is architecturally and aesthetically pleasing. For indoor applications.

Includes a digital PIR sensor and ambient light sensing for daylight harvesting applications as well as occupancy based control.

It can also be integrated to BACnet through LOG-EBOX.

### FEATURES

- Wireless communication.
- Full digital passive infrared.
- Easy and seamless integration at the fixture level.
- Configurable for advanced settings.
- Designed for plug and play applications.

### OPERATION

- Input range: 12-24VAC / 12-36VDC
- Powered from driver or any available 12VDC source
- Compatible with 0-10V, dim-to-off LED drivers
- Allows for 0-10V dimming and dim-to-off functionality, providing continuous dimming control, simplify maintenance and a personalized lighting environment.
- No need for extra relays and control devices (when paired with compatible LED drivers).

### OPTIONS IN OPERATION

- Local Control: An on board microprocessor and memory allows for standardized operation at the fixture level, eliminating the reliance on software or network configuration. LOG-ML10V can be utilized out of the box with default settings or configured for advanced operation. Preferences and settings can be made by remote configuration, even after installed.
- Integration to BAS: It has the ability to communicate information through LOG-EBOX and into an existing building automation system (BAS). The convergence of lighting and building automation allows for granular information to be communicated to the BAS for improved operational efficiency.

### NODES WITH SENSOR COMPATIBLE WITH LOGICA® DEVICES:



LOG-ESRP /  
LOG-ESRP  
switches



LOGICA CONFIG  
software



LOG-USB  
usb stick

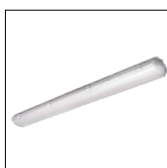


LOG-EBOX  
gateway



LOG-AP3  
interface

### NODES WITH SENSOR SUITABLE WITH BEGHELLI LUMINAIRES:



ILLUMINA® FAMILY



LEDLUMINA BS400



ACCIAIO® LED

\*See Configuration Chart

## LOG-ESRP / LOG-EDRP

SELF-POWERED WIRELESS CONTROLS.

TITLE 24 TITLE 20  



### DESCRIPTION

LOGICA® Single and Double Rocker Pads communicate wirelessly with other LOGICA® devices using EnOcean radio frequency technology, they provide convenient control of lighting.

The rocker pads are self-powered, pressing the rocker generates enough energy to send a signal to other LOGICA® devices.

In conjunction with LOGICA® sensors and control, they maximize efficiency and provide a level of comfort and unachievable with traditional switches. With an appropriate receiver, the switch can be used to control lighting scenes and continuous dimming.

### FEATURES

- Wireless.
- Switching and dimming functions.
- Fast and easy installation, you can move them anytime.
- Self-powered, no batteries to replace and no on-going maintenance.
- Radio frequency technology to communicate wirelessly with other LOGICA® devices.

## LOG-EBOX

ENOCEAN TO BACNET GATEWAY



### DESCRIPTION

LOG-EBOX allows the ability to integrate EnOcean wireless solutions to wired building automation systems that utilizes the BACnet building automation protocol.

The LOG-EBOX “listens” to EnOcean wireless devices in a space and translates these incoming messages automatically into BACnet IP objects. The information gathered through the wireless devices can then be utilized in the building automation system and applied for greater efficiency in the operations of the building. The EBOX supports every existing EnOcean product and all existing EnOcean profiles.

### FEATURES

- WIFI enabled.
- Bidirectional.
- No programming.
- No scripting.
- No software required.
- No ongoing fees.
- Easily configured with LOGICACONFIG Software.
- Each EBOX can “Listen” to an unlimited amount of EnOcean wireless devices and “Speak” to 128 EnOcean wireless devices (limit is radio based).
- 5,000 square feet of radio range\* coverage approximately, range depends on factors including building type, usage, and building materials.
- With Power Supply Included.



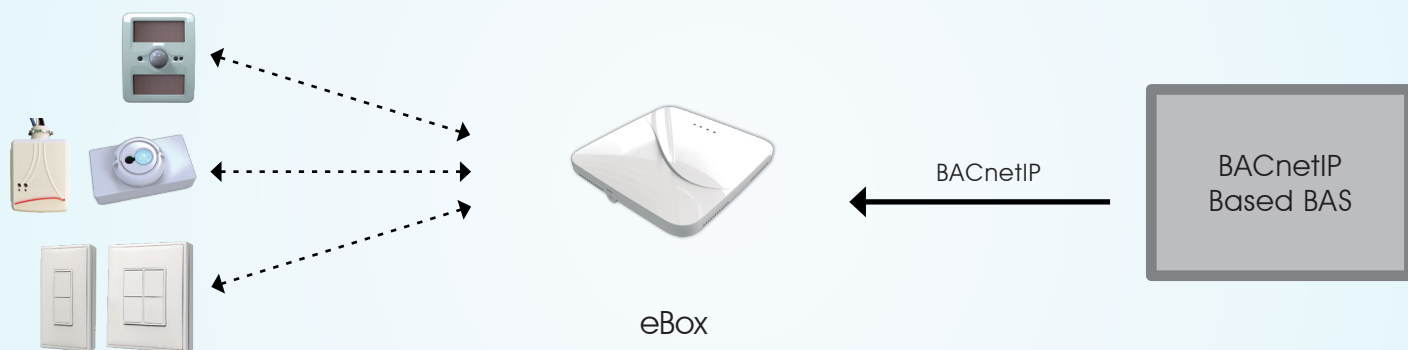
## LOG-AP3

WIRELESS LAN ACCESS POINT WITH ETHERNET INTERFACE



### FEATURES

- Imsys IM3910 Snap FX-32 processor.
- Micrel Integrated 100 MBit layer - 2 managed 3-port switch.
- Capable of buffering up to 3 million EnOcean signals.
- Coverage is approximately 6,000 square feet per AP (1,828 m).
- Managed by free control software.
- Firmware upgradeable.
- Programming API available.
- Built-in fall-back solution if server is down.
- Compatible with ALL EnOcean Dolphin chips in 902 MHz.
- 120V Power supply included.
- Optional WiFi module.



## LOG-USB

SELF-POWERED WIRELESS CONTROLS.



### DESCRIPTION

The LOGICA® USB stick\* is enabled with a radio module for over-the-air configuration or a LOGICA® EBOX for configuration over Ethernet / WIFI.

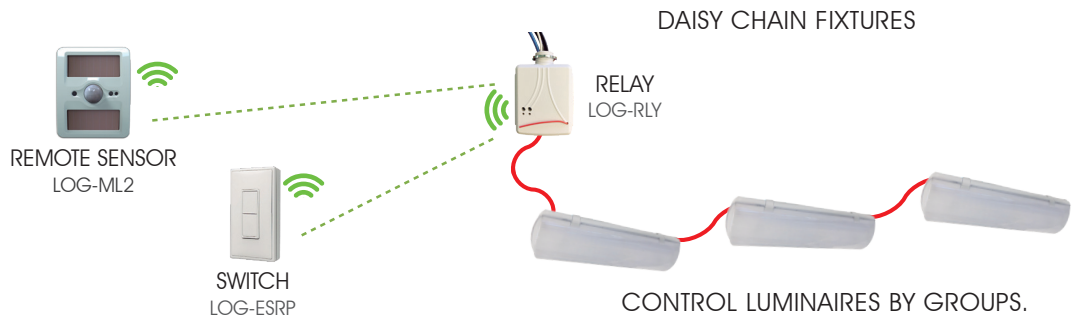
The software tool includes both a "USER-FRIENDLY" mode and a more advanced "TECHNICIAN" mode.

### FEATURES

- Easy to use
- Compatible to any EnOcean hardware / software
- Ability to configure hundreds of devices at the same time

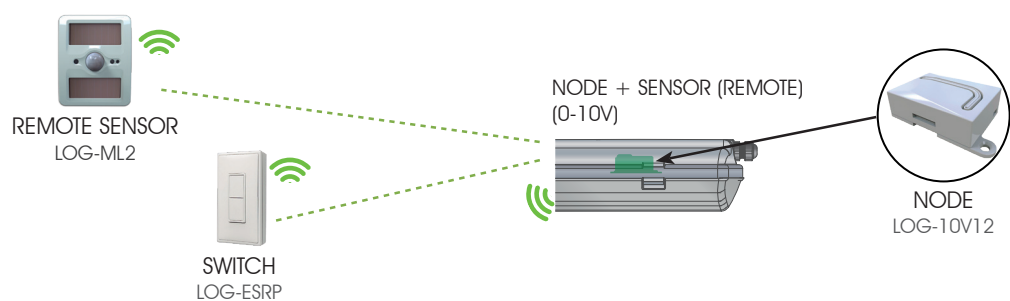
## 1. RELAY (RLYL)

\*Notes:   





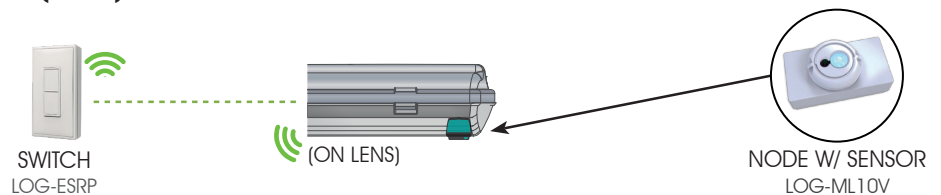
## 2. NODE (NODL)

\*Notes:   





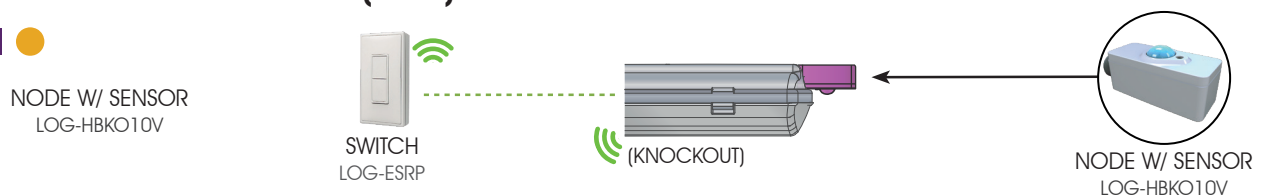
## 3. INTERNAL OCCUPANCY SENSOR (IOSL)

\*Notes:  









## 4. EXTERNAL OCCUPANCY SENSOR (EOSL)

\*Notes:  



\*Notes (P. 18 -19):

-  \* Line voltage wiring & dimming wiring.
-  \* Solution only available for LED, dimmable 0-10V products.
-  \* Place sensors only in strategic places and not in every fixture.

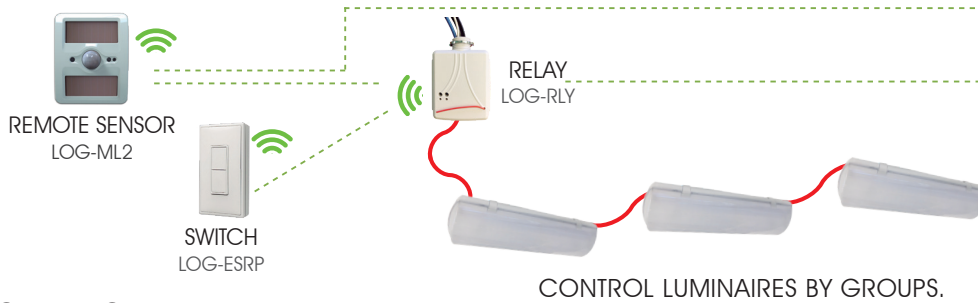
-  \* Wireless range between 15-45 mts.
-  \* Low voltage control.
-  \* Requires a driver with auxiliary output.

The ADVANCED SOLUTION allows the user to:

- Control the system using the smartphone application.
- Control and monitoring through the cloud or server.
- Download performance and consumption data.
- Perform all BASIC SOLUTION features.

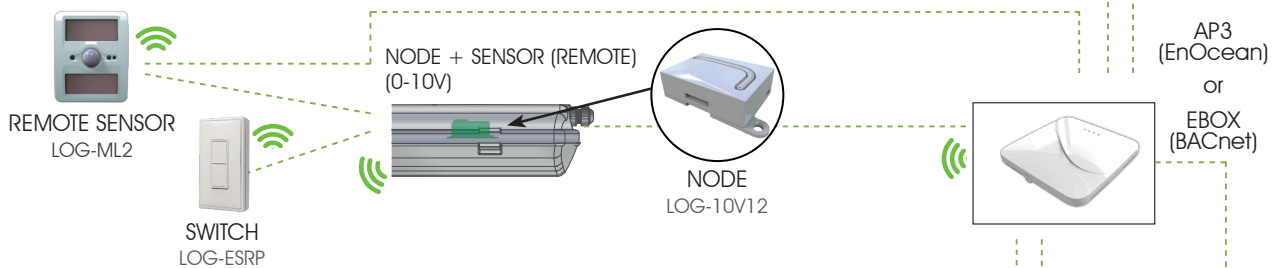
## 1. RELAY (RLY)

\*Notes:   




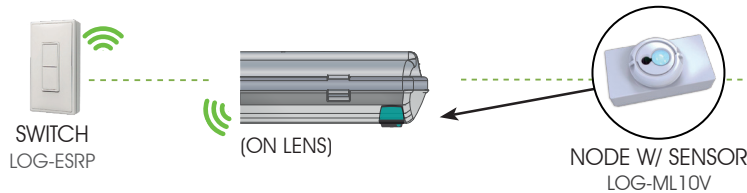
## 2. NODE (NOD)

\*Notes:   





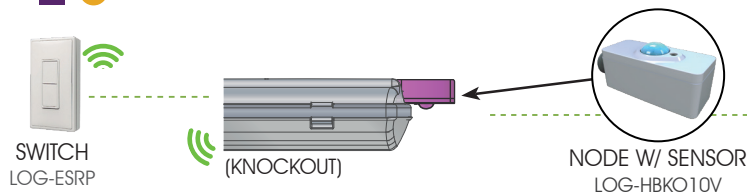
## 3. INTERNAL OCCUPANCY SENSOR (IOS)

\*Notes:  

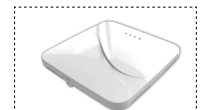


## 5. EXTERNAL OCCUPANCY SENSOR (IOS)

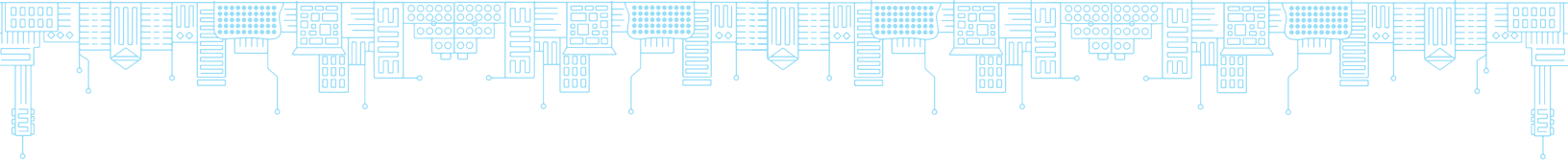
\*Notes:  



\*Note:



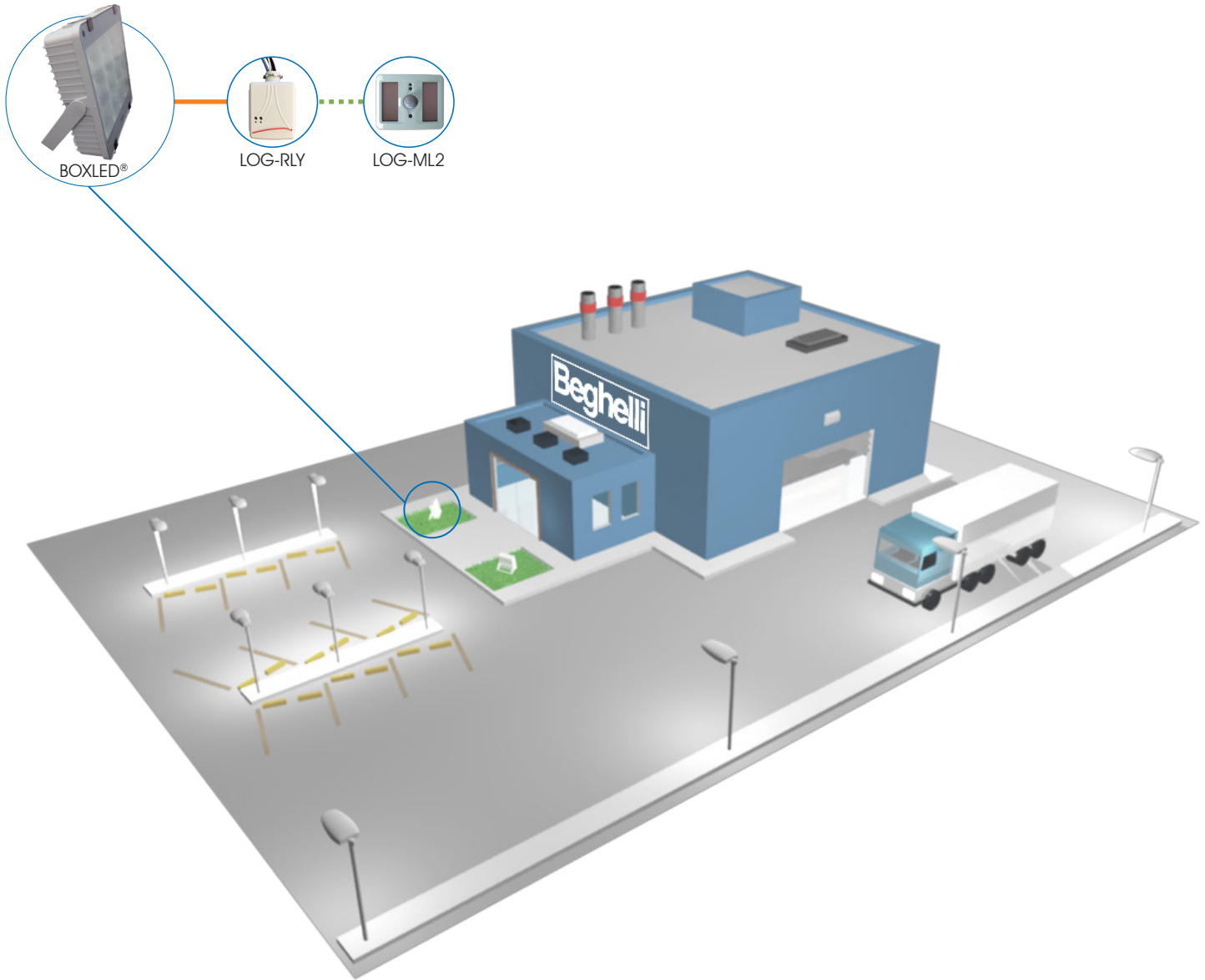
\*Wireless range: up to 1,524 m<sup>2</sup>



# LIGHTING CONTROL APPLICATIONS



Line voltage control by groups.

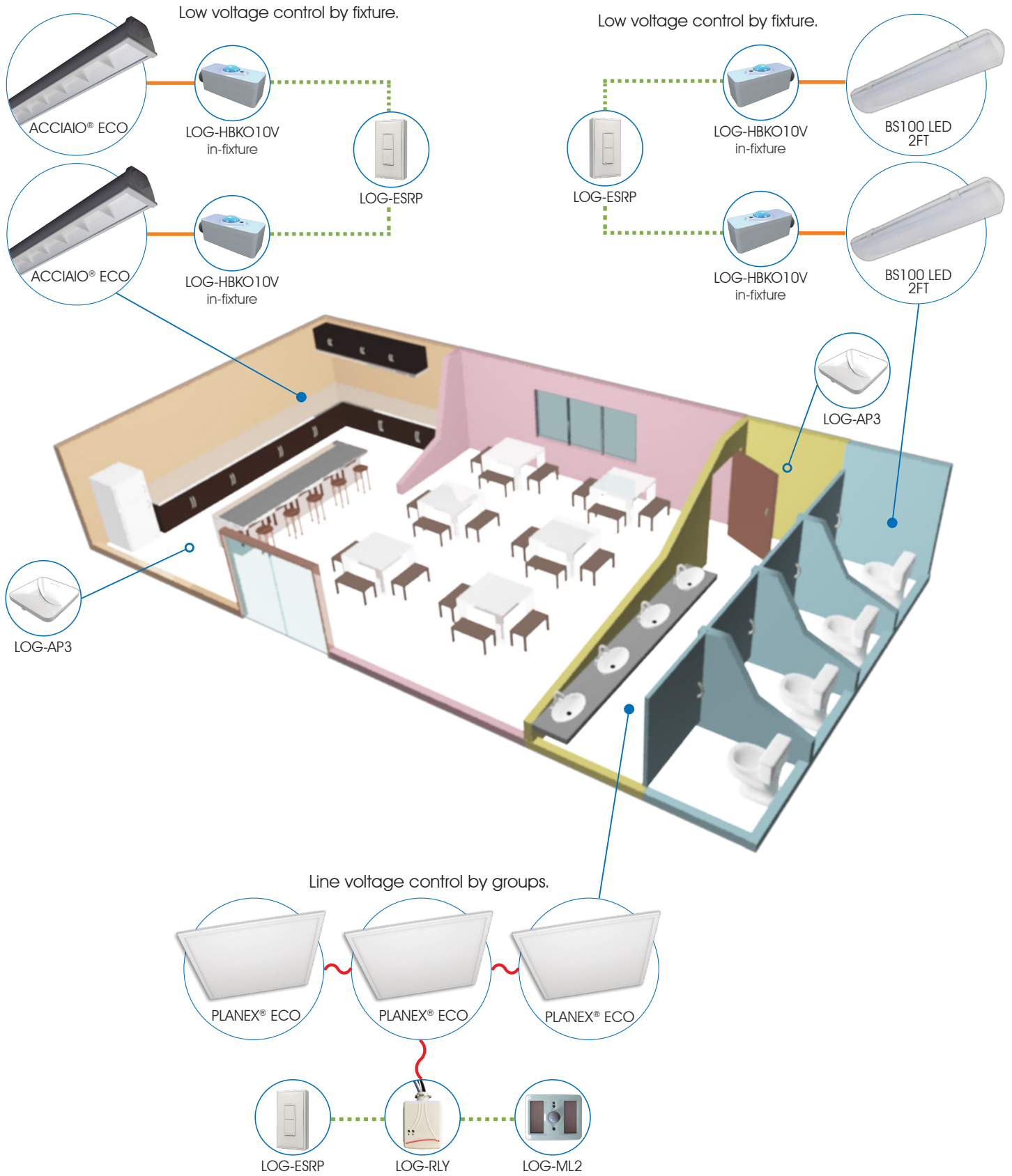


**\*Notes:**

- \* All components must be installed indoor.
- \* LOG-ML2 only as lux-sensor (basic solution).
- \* Creation of schedules by geolocation (advanced solution).

- ..... Wireless.
- Wired fixtures.
- ~ Line voltage wiring & dimming wiring (advanced solution).

# DINING HALL APPLICATION



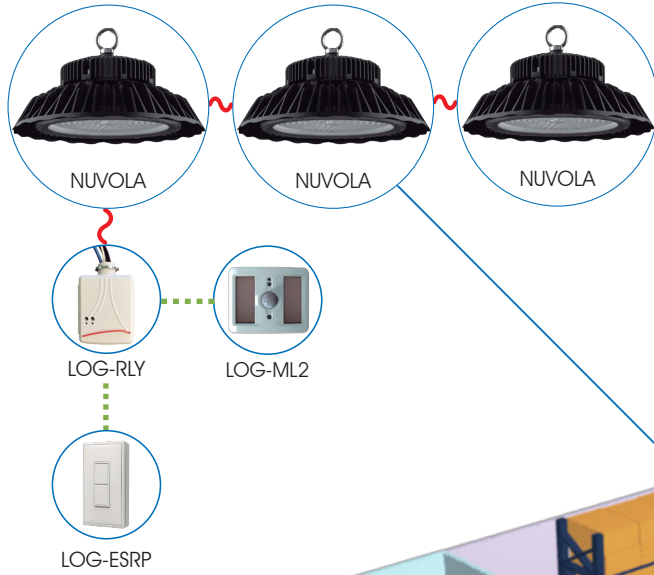
..... Wireless.

— Wired fixtures.

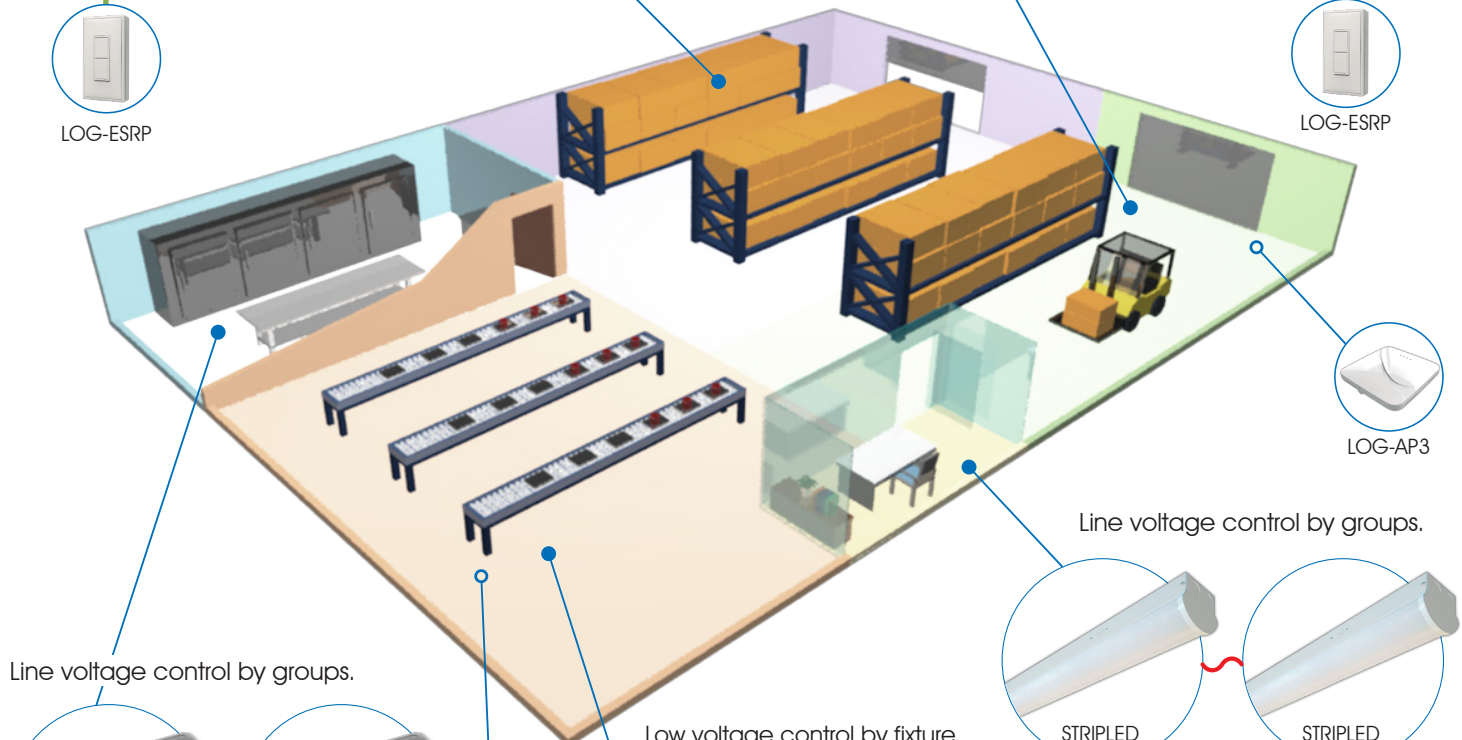
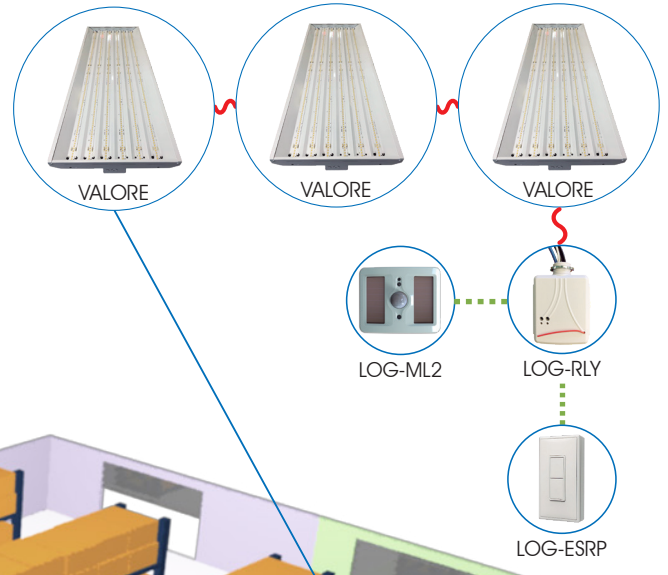
~ Line voltage wiring & dimming wiring (advanced solution).

# WAREHOUSE & MANUFACTURE APPLICATION

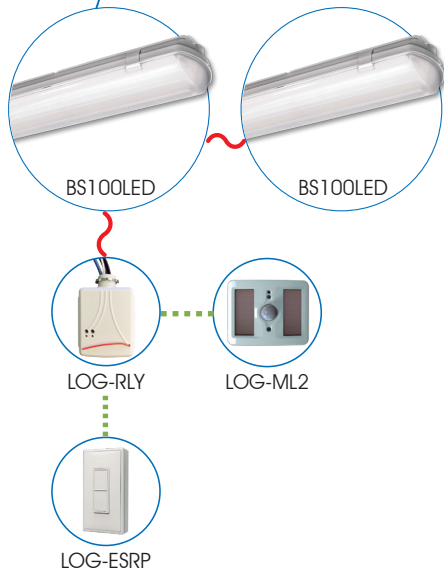
Line voltage control by groups.



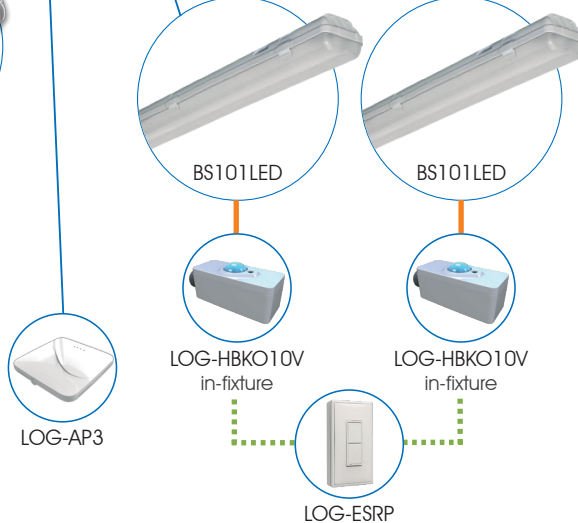
Line voltage control by groups.



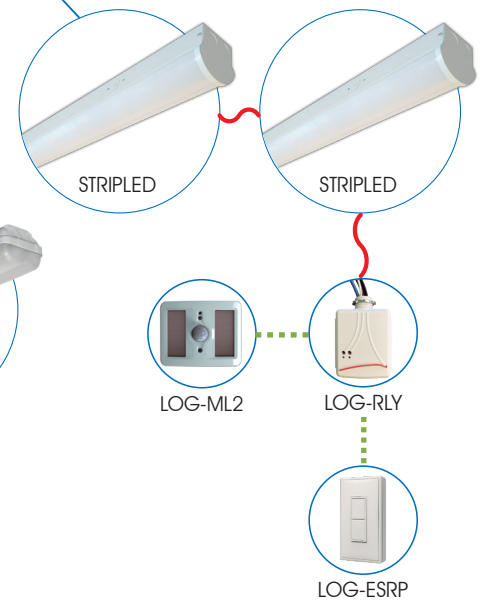
Line voltage control by groups.



Low voltage control by fixture.



Line voltage control by groups.



Line voltage wiring & dimming wiring (advanced solution).

Wired fixtures.

Wireless.

# STORE APPLICATION

Line voltage control by groups.



..... Wireless.

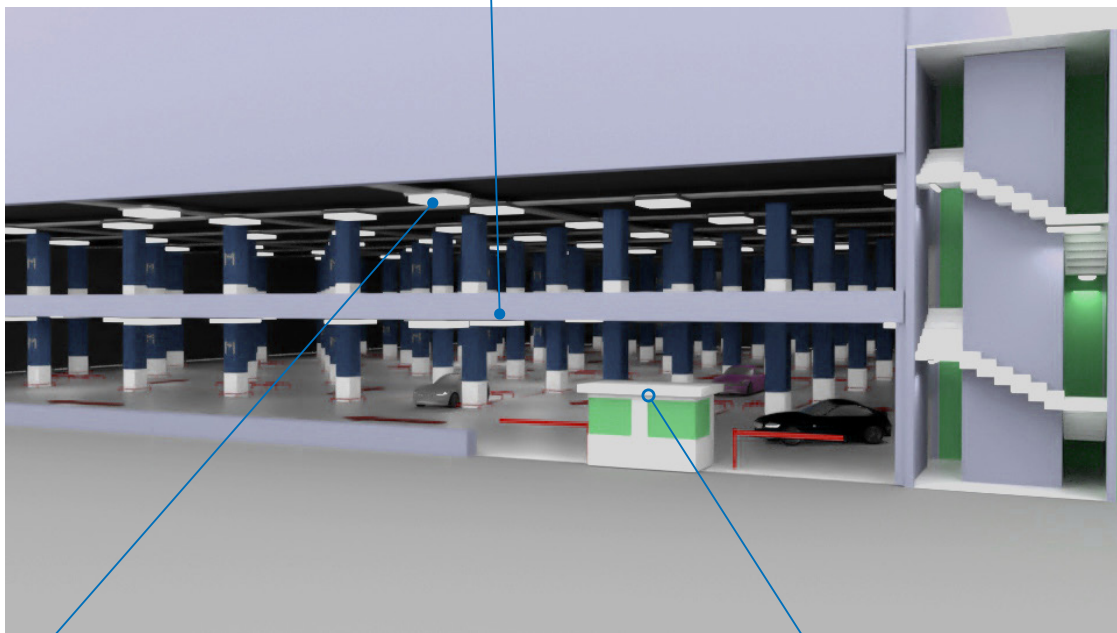
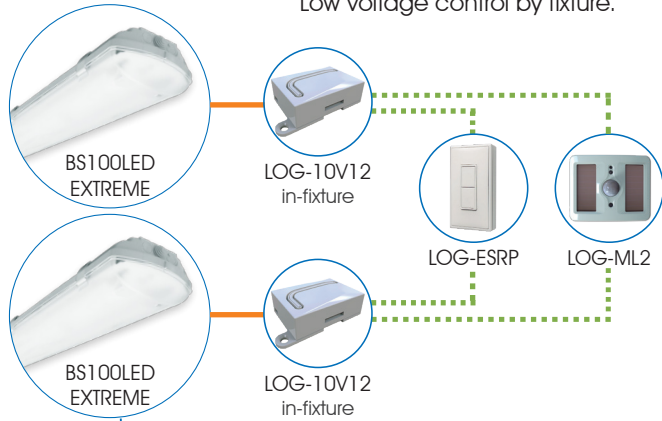
— Wired fixtures.

~ Line voltage wiring & dimming wiring (advanced solution).

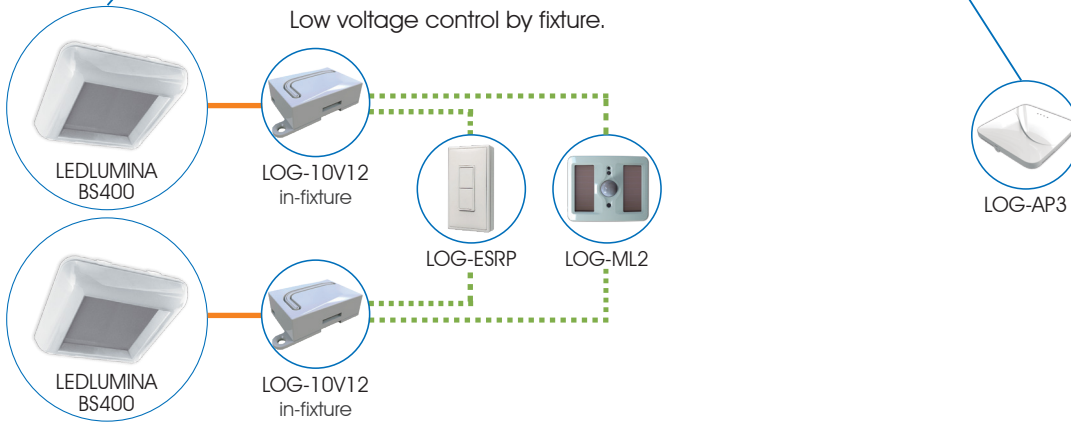


# PARKING GARAGE APPLICATION

Low voltage control by fixture.



Low voltage control by fixture.



 Line voltage wiring & dimming wiring (advanced solution).

 Wired fixtures.

 Wireless.



**[LOGICA]**<sup>®</sup>

by **Beghelli**

**Beghelli USA**

3810 Executive Way  
Miramar, Florida 33025  
P: 800-726-4316 / P: 954-442-6600  
F: 954-442-6677  
[www.beghelliusa.com](http://www.beghelliusa.com)

**Beghelli MÉXICO**

Av. del Marqués No. 70 Int.4.  
Parque Industrial Bernardo Quintana  
CP.76246 El Marqués, Qro  
P: (442) 221.62.15 / (442) 221.64.39  
[www.beghelli.com.mx](http://www.beghelli.com.mx)