[LOGICA]®

by Beghelli

MÉXICO
2025

[LOGICA]®

by Beghelli

SMART LIGHTING CONTROL SOLUTION

- Flexible
- Secure
- Intelligent
- Scalable
- Wireless
- Low Power Consumption
- Integrated
- **Configurable**

LOGICA® is an automation solution that allows greater flexibility and comfort for any lighting control need.
It offers solutions that enable:

- Complete management of the lighting system.
- Energy consumption reduction.
- Real-time monitoring of consumption and savings.
- Integration with existing automation systems.

WIRELESS COMMUNICATION
LOGICA® uses Bluetooth Low Energy (BLE), making lighting control very simple to use.
Allows reconfiguration of settings and remote scene creation and equipment programming for unified operation.
Its “standalone” sensors operate independently.

APPLICATIONS
Energy savings are achieved through lighting control by dimming and adjusting lighting based on occupancy or natural light levels. This makes it a perfect solution for both indoor and outdoor use.

SOFTWARE AND PROTOCOL
LOGICA® is compatible with CASAMBI, a software platform that manages data via BLE.
No wiring is needed to control lighting.

The BLE communication protocol allows wireless communication between sensors, switches, controllers, and all system components.

CASAMBI is a free software with a user-friendly interface, offering basic and advanced modes allows you to make configurations such as activation of sensors, on/off functions, dimming scenes, component linking, identification and recognition of components, among others.

KEY FEATURES

WIRELESS	• No wires required for controls • Strong RF signal works through doors and walls • Wireless range up to 50 ft • BACnet protocol compatible • Frequency specifically designed for this solution.
LOW CONSUMPTION	• Battery-free, maintenance-free • Easy to install • Energy harvester • Solar-powered wireless sensors • Kinetic power switches • Reduces energy consumption
INTEGRATED	• Detection and control in one solution • Drivers with integrated controls • Leading global protocols: 0-10V, DALI, PWM
CONFIGURABLE	• Easy setup • User-friendly software interface • Free CASAMBI software for iOS and Android
FLEXIBLE	• Allows changing switch/sensor locations without wiring • Create and reorganize lighting groups • Ideal for retrofit projects • Settings and configurations can be modified remotely.
SECURE	• Restricted to authorized users • 128-bit AES encryption
INTELLIGENT	• Automated and programmable lighting solution • Advanced features like adjustable controls and occupancy-based needs • Energy-saving options: occupancy sensors, time-based programming, and daylight harvesting • Mobile applications that allow you to monitor, configure and manage multiple locations in real time.
SCALABLE	• Build your own lighting control solution • Expandable from basic to advanced topologies • Add components as needed

RELAY

LOG-RLY-BLE CB

Circuit-based lighting control module

DESCRIPTION
LOG-RLY is a wireless line voltage controller that outputs 0-10V to the LED driver. It is designed to operate within a Bluetooth network system, enabling wireless dimming of LED lighting and seamless solution integration. It features wireless communication with other LOGICA® devices.
Its physical size allows this unit to be placed inside the luminaire, or it also features a threaded bushing for mounting in a junction box when necessary.

-Color: White
-Configuration: CASAMBI

OPERATION
-Input voltage: 120-277 VAC 50/60 Hz.
-0-10V dimming: 3mA, sink.
-Maximum Bluetooth range: 15-20 m (49-65 ft)
-Operating temperature: -40°C to 70°C
-Storage temperature: -40°C to 85°C

APPLICATIONS
Indoors: Private offices, classrooms, conference rooms, storage spaces, break rooms.

NODE

LOG-NODE BLE CB

0-10V LIGHTING CONTROL ON DEVICE FOR DIMMER AND OFF CONTROLLERS (2 CHANNELS)

DESCRIPTION
LOG-NODE BLE CB is a Bluetooth controller capable of controlling two channels, making it an ideal companion for tunable white applications. The two channels can also be configured to operate individually. It is powered by an external 12-24 VDC source. It is compatible with 0-10 V VAUX 12-24 V dimming LED drivers. It features wireless communication with other LOGICA® devices.

-Color: White
-Configuration: CASAMBI

OPERATION
-Voltage range: 12-24 VDC.
-Input voltage: maximum 24 VDC.
-Output voltage: 0-10 VDC, adjustable.
-Maximum output current per channel: 5 mA.
-Operating temperature: -25°C (13°F) to 45°C (113°F)

SENSOR

LOG-EMDCB

MOTION/LIGHT SENSOR

DESCRIPTION
LOG-EMDCB is a self-powered sensor for ceiling or wall mounting. It is self-powered through its solar cell and an internal energy storage, enabling this device to operate for up to four days in complete darkness.
LOG-EMDCB reports motion detection and light measurements wirelessly, requiring no wiring.
The mobile app allows you to adjust sensor parameters such as delay time, dimming level, sensitivity, daylight detection, and more. Lighting control is also available based on presence and ambient light level.

-Color: White
-Configuration: CASAMBI

OPERATION
-Input voltage: 120-277 VAC 50/60 Hz.
-Dimming 0-10V: 3mA
-Maximum Bluetooth range: 15-20 m (49-65 ft)
-Operating temperature: -40°C to 70°C
-Storage temperature: -40°C to 85°C

APPLICATIONS
Indoors: Private offices, classrooms, conference rooms, storage spaces, break rooms.

NODES W/SENSORS

LOG-HB/LB BLE CB

INTEGRATED 0-10V LIGHTING CONTROL FOR DIMMER AND OFF CONTROLLERS

DESCRIPTION
LOG-HB/LB BLE CB is a remotely configurable, fixture-mounted sensor. It communicates wirelessly with other LOGICA® devices and is compatible with 0-10V and VAUX 12-24V dimming LED drivers. LOG-HB/LB BLE CB is ideal for lighting control in installations up to 6 m (20 ft) high.
It features a mobile app that allows you to adjust sensor parameters such as delay time, dimming level, sensitivity, or daylight detection. Key applications include lighting control based on occupancy and ambient light level.

-Color: White
-Configuration: CASAMBI

OPERATION
-Product Type: PIR Occupancy Sensor
-Input Voltage/Consumption Current: 12-24VDC / 50 mA
-0-10V Output: 100 mA
-Mounting height: up to 12.2 m (40 ft).
-Photocell sensitivity: On <30 lux, Off >100 lux.
-Operating temperature: -30°C to 70°C
-Maximum Bluetooth range: 49-65 ft (15-20 m).

NODES W/SENSORS

LOG-HBKO/LBKO

INTEGRATED 0-10V LIGHTING CONTROL FOR DIMMER AND OFF CONTROLLERS

DESCRIPTION
LOG-HBKO/LBKO is a remotely configurable, KNOCK-OUT-mount occupancy sensor. It is compatible with 0-10 V and VAUX 12-24 V dimming LED drivers. It also communicates wirelessly with other LOGICA® devices. This device is ideal for lighting control in installations up to 12.2 m (40 ft) high. It features a mobile app that allows you to adjust sensor parameters such as delay time, dimming level, sensitivity, daylight detection, and more. Key applications include lighting control based on occupancy and ambient light level.

-Color: White
-Configuration: CASAMBI

OPERATION
-Product Type: PIR Occupancy Sensor
-Input Voltage/Power Consumption: 12-24 VDC / 50 mA
-0-10 V Output: 100 mA
-Mounting height: up to 12.2 m (40 ft).
-Photocell sensitivity: On <30 lx, Off >100 lx.
-Maximum Bluetooth range: 49-65 ft (15-20 m).
-Operating temperature: -30°C to 70°C

SWITCHERS

LOG-SWS/SWD BLE

SELF-POWERED WIRELESS CONTROLS

DESCRIPTION
LOG-SWS/SWD BLE is a single/double wireless dimmer switch. It provides convenient lighting control. It features self-powered rockers that require no batteries. Maximize your efficiency and implement LOGICA® sensors and controls. The switch can control lighting and achieve continuous dimming. It can communicate wirelessly with other LOGICA® devices. It is wireless; it requires no additional cables, making implementation quick and easy. It features decorator-style rocker pads capable of switching and dimming. Self-powered. No batteries to replace and no ongoing maintenance.

-Color: White
-Configuration: CASAMBI

OPERATION
-Product Type: Dimmable Wall Switch.
-Input Voltage/Power Consumption: Self-powered.
-Mounting: Surface-mounted or flush-mounted.
-Maximum Bluetooth Range: 9.14 m (30 ft).
-Operating temperature: -25°C to 50°C

APPLICATIONS
Indoors: Private offices, classrooms, conference rooms, storage spaces, break rooms.

LIGHTING CONTROL APPLICATIONS

GROUP CONTROL AT LINE VOLTAGE

BOXLED®

LOG-RLY-BLE CB

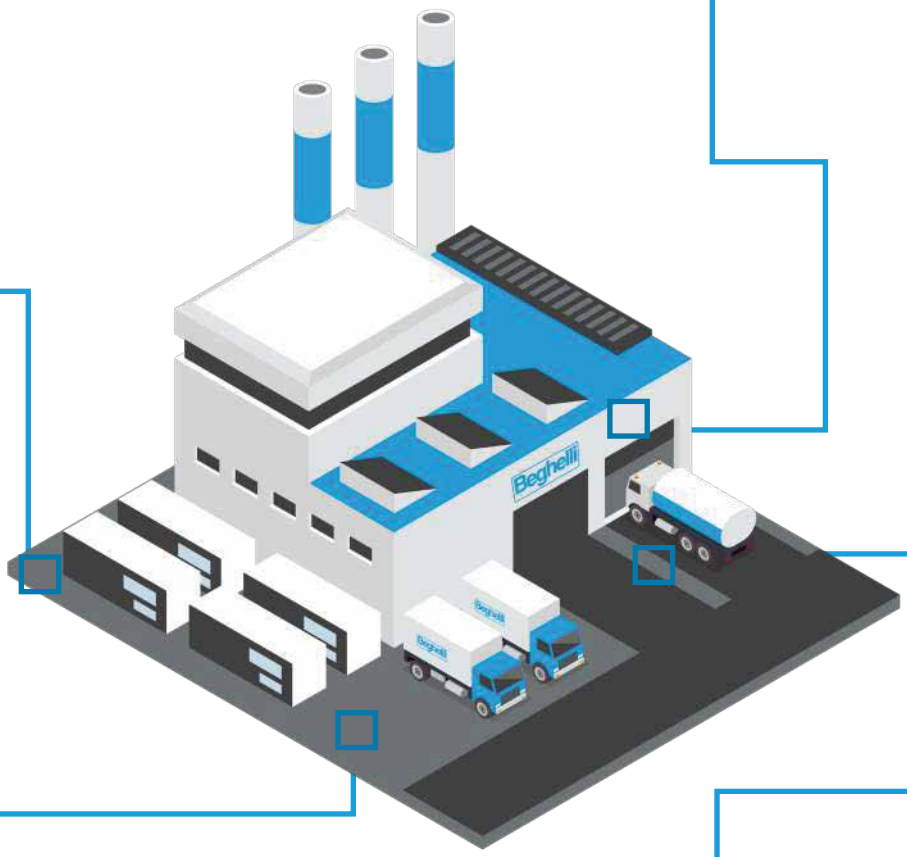
LOG-EMDCB

GROUP CONTROL AT LINE VOLTAGE

WALLPACK 45

LOG-RLY-BLE CB

LOG-EMDCB



GROUP CONTROL AT LINE VOLTAGE

RX11 LED

LOG-RLY-BLE CB

LOG-EMDCB

GROUP CONTROL AT LINE VOLTAGE

STRADA LED

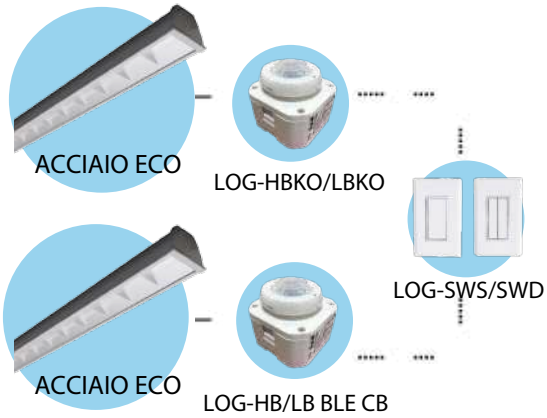
LOG-RLY-BLE CB

LOG-EMDCB

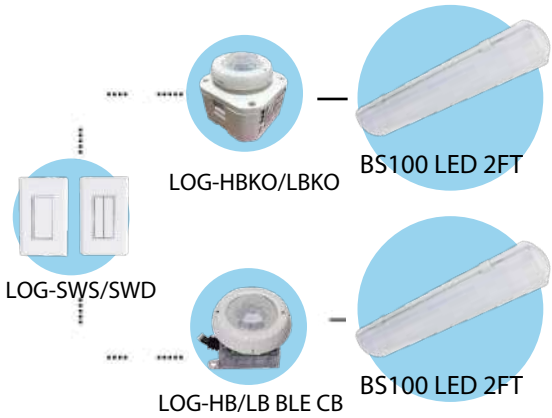
*Notes:
*All components must be installed indoors.
*LOG-
*Creation of schedules by geolocation (advanced solution).

..... Wireless
— Wired accessories.
~ Inline voltage wiring and dimming wiring.

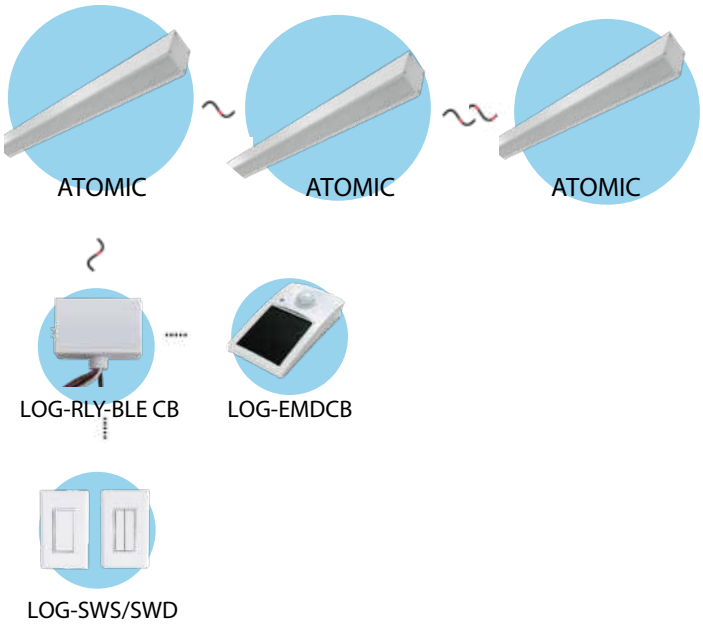
INDIVIDUAL LOW VOLTAGE CONTROL



INDIVIDUAL LOW VOLTAGE CONTROL



GROUP CONTROL AT LINE VOLTAGE



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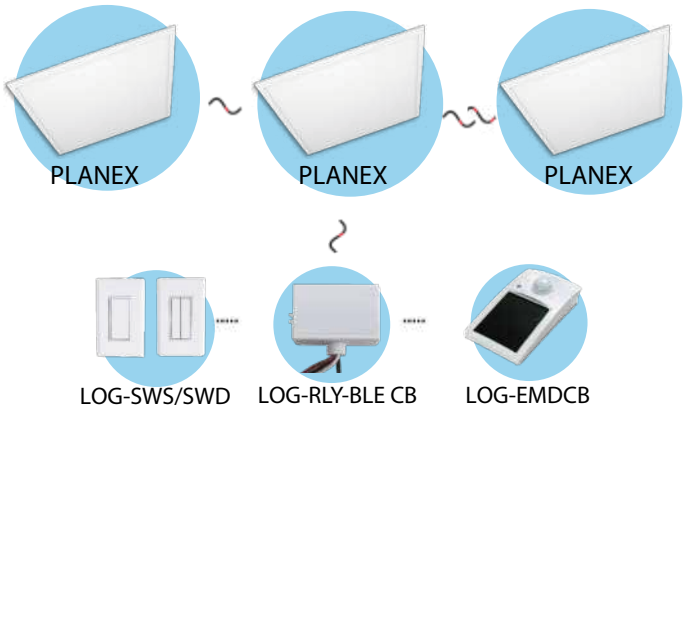


Wireless — Wired accessories. ~ Inline voltage wiring and dimming wiring.

WAREHOUSES AND MANUFACTURING

GROUP CONTROL AT LINE VOLTAGE

NUVOLA NUVOLA NUVOLA

LOG-RLY-BLE CB LOG-EMDCB

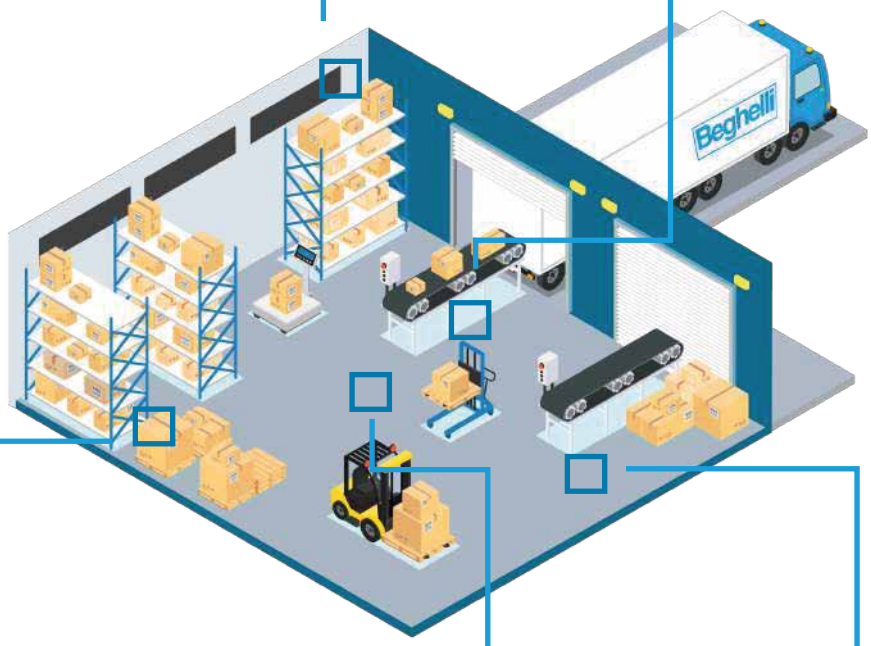
LOG-SWS/SWD

GROUP CONTROL AT LINE VOLTAGE

VALORE LITE VALORE LITE VALORE LITE

LOG-EMDCB LOG-RLY-BLE CB

LOG-SWS/SWD



GROUP CONTROL AT LINE VOLTAGE

BS2000 LED BS2000 LED

LOG-RLY-BLE CB LOG-EMDCB

LOG-SWS/SWD

INDIVIDUAL LOW VOLTAGE CONTROL

BS101 LED BS101 LED

LOG-HBKO/LBKO LOG-HB/LB BLE CB

LOG-SWS/SWD

GROUP CONTROL AT LINE VOLTAGE

STRIP LED STRIP LED

LOG-EMDCB LOG-RLY-BLE CB

LOG-SWS/SWD

Wireless — Wired accessories. ~ Inline voltage wiring and dimming wiring.

GROUP CONTROL AT LINE VOLTAGE

STRIPLED

STRIPLED

STRIPLED

LOG-RLY-BLE CB

LOG-EMDCB

LOG-SWS/SWD

GROUP CONTROL AT LINE VOLTAGE

DOWNLIGHT RONDO

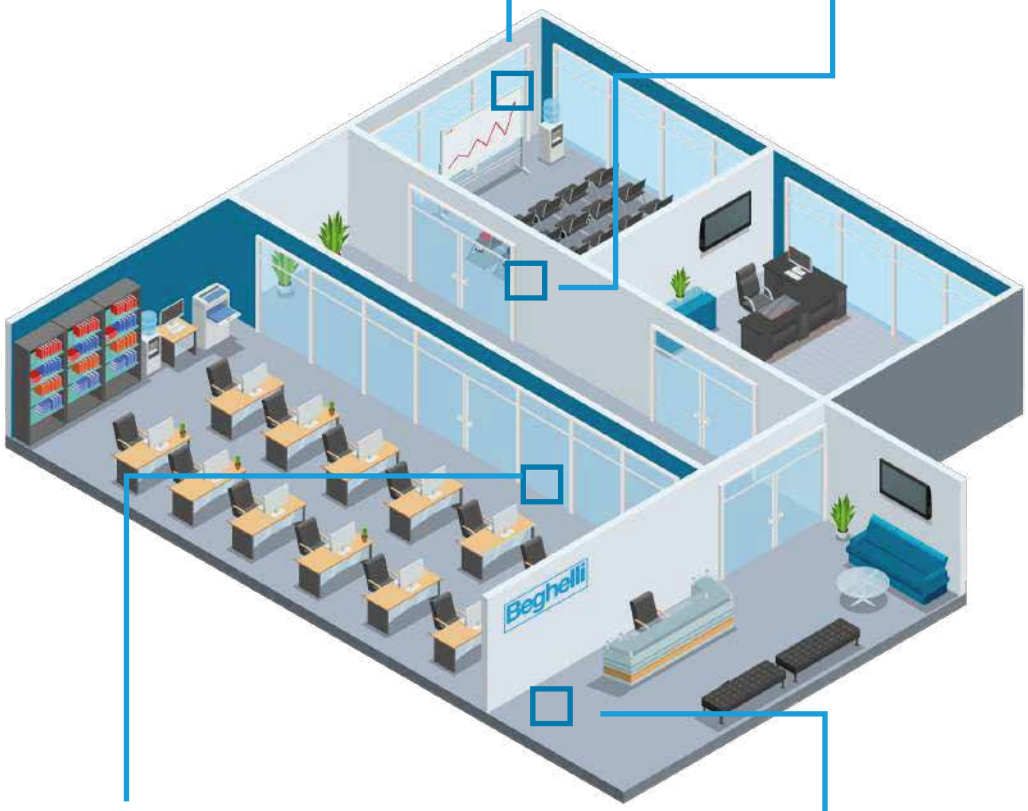
DOWNLIGHT RONDO

DOWNLIGHT RONDO

LOG-EMDCB

LOG-RLY-BLE CB

LOG-SWS/SWD



INDIVIDUAL LOW VOLTAGE CONTROL

ATOMIC

LOG-HBKO/LBKO

LOG-SWS/SWD

ATOMIC

LOG-HB/LB BLE CB

GROUP CONTROL AT LINE VOLTAGE

CENTURY

CENTURY

CENTURY

LOG-SWS/SWD

LOG-RLY-BLE CB

LOG-EMDCB

Wireless — Wired accessories. ∿ Inline voltage wiring and dimming wiring.

INDIVIDUAL LOW VOLTAGE CONTROL

STRIPLED

LOG-HBKO/LBKO

LOG-SWS/SWD

STRIPLED

LOG-HB/LB BLE CB

GROUP CONTROL AT LINE VOLTAGE

DOWNLIGHT RONDO

LOG-HBKO/LBKO

LOG-SWS/SWD

DOWNLIGHT RONDO

LOG-HB/LB BLE CB

INDIVIDUAL LOW VOLTAGE CONTROL

PLANEX

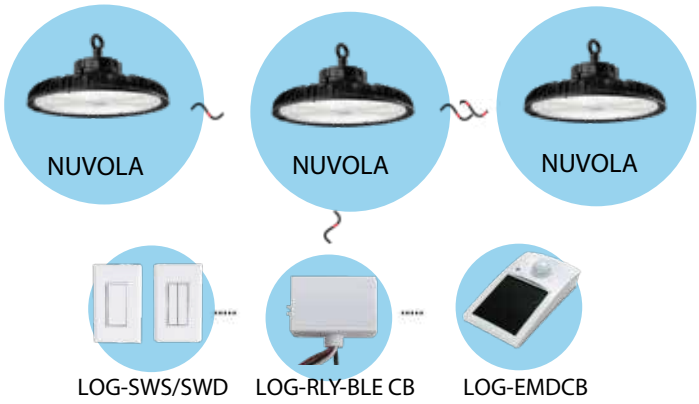
PLANEX

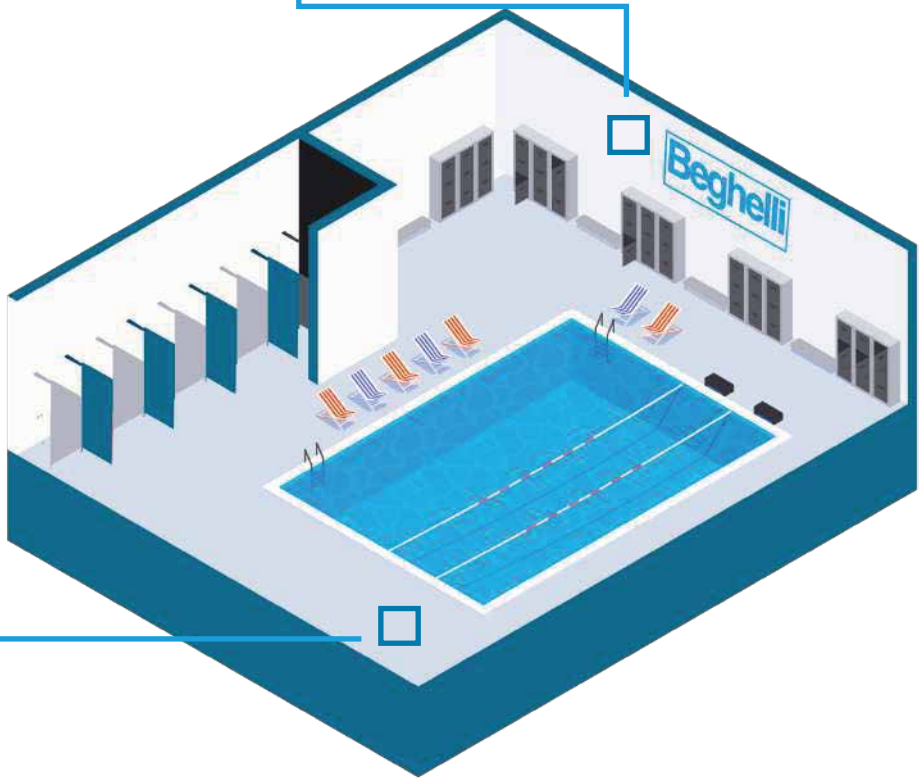
LOG-EMDCB LOG-NODE-BLE CB LOG-EMDCB LOG-NODE-BLE CB

LOG-SWS/SWD

····· Wireless — Wired accessories. ∿ Inline voltage wiring and dimming wiring.

GROUP CONTROL AT LINE VOLTAGE





GROUP CONTROL AT LINE VOLTAGE

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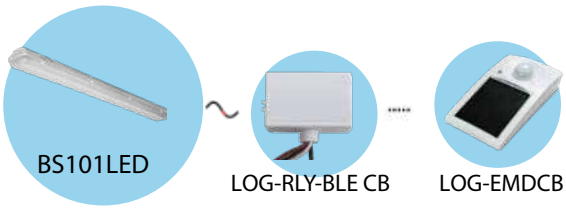
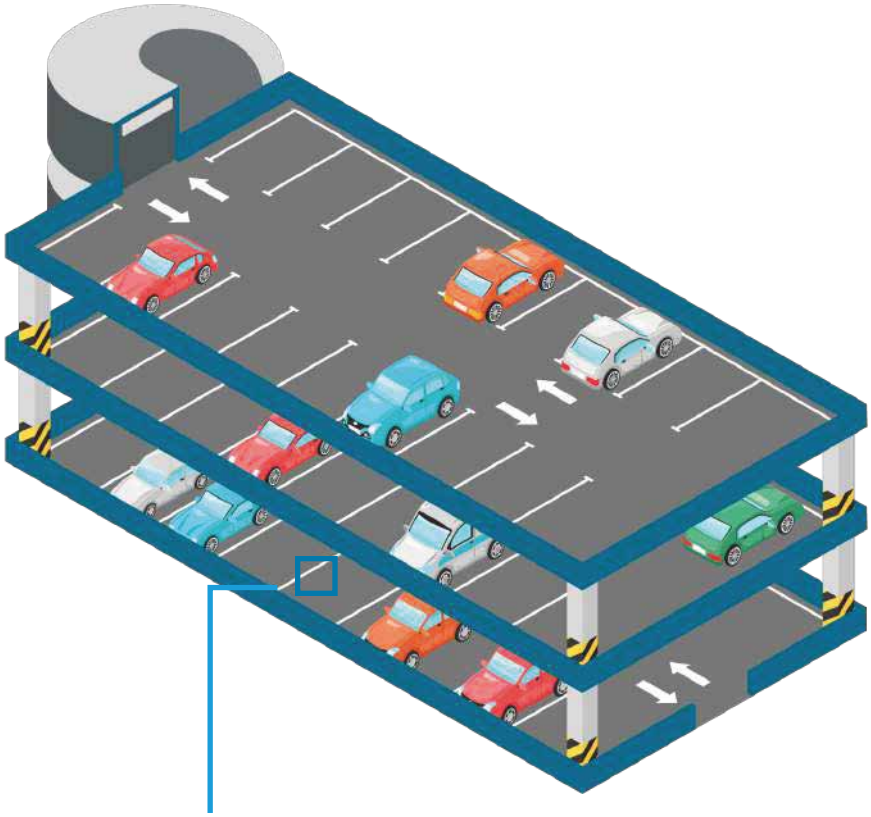
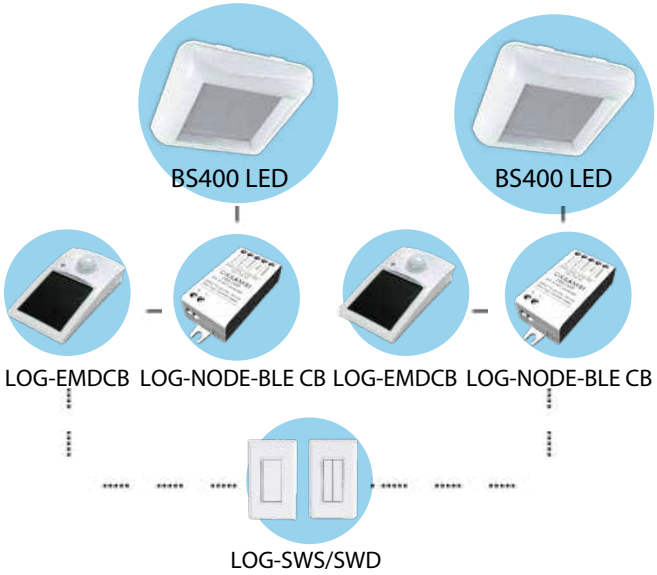
GROUP CONTROL AT LINE VOLTAGE





INDIVIDUAL LOW VOLTAGE CONTROL



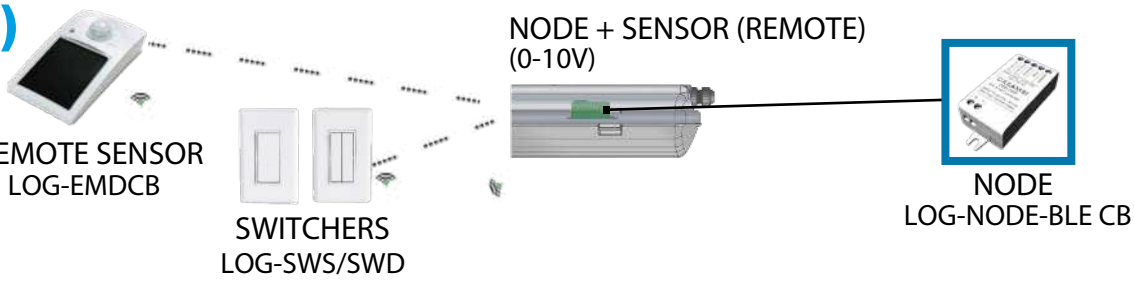
Wireless — Wired accessories. ~ Inline voltage wiring and dimming wiring.

1. RELAY (RLY)

*Notes:

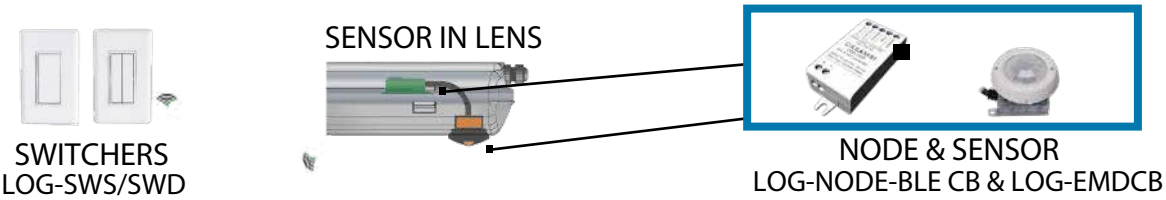
2. NODES (NOD)

*Notes:



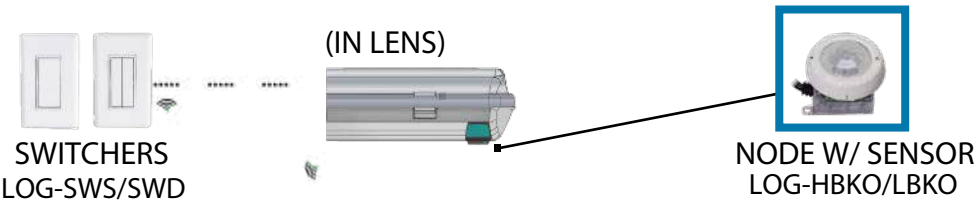
3. INTERNAL OCCUPANCY SENSOR (IOS)

*Notes:



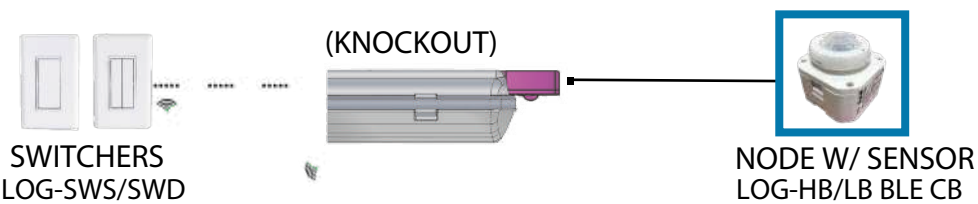
4. INTERNAL OCCUPANCY SENSOR (OIS)

*Notes:



5. EXTERNAL OCCUPANCY SENSOR (EOS)

*Notes:



*Notes (P. 22 - 23)

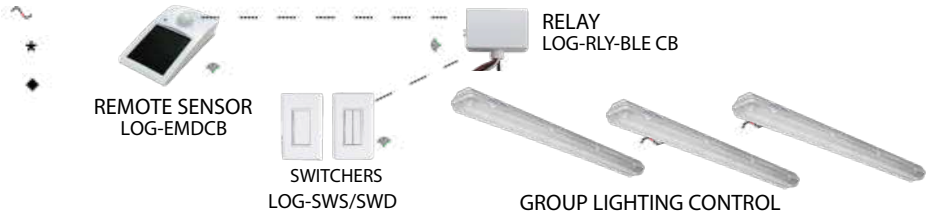
- * Inline voltage wiring and dimming wiring.
- *Solution available only for LED, 0-10V dimmable products.
- * Place sensors only in strategic locations and not with all accessories.
- * Wireless range between 15-45 meters.
- * Low voltage control.
- * Requires a controller with auxiliary output.

ADVANCED SOLUTIONS allows the user to:

- Control the system using the mobile app.
- Control and monitor through the cloud or server.
- Download performance and consumption data.
- Perform basic solutions.

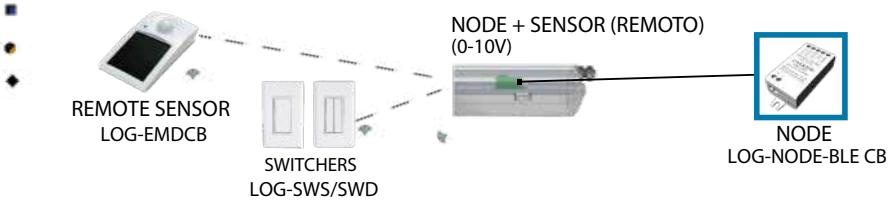
1. RELAY (RLY)

*Notes:



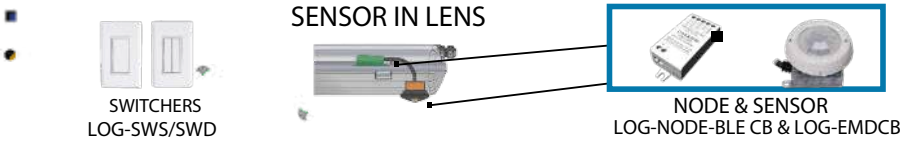
2. NODES (NOD)

*Notes:



3. INTERNAL OCCUPANCY SENSOR (IOS)

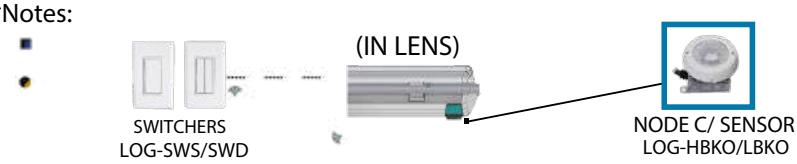
*Notes:



Application available for tablet and cell phone.

4. INTERNAL OCCUPANCY SENSOR (IOS)

*Notes:



5. EXTERNAL OCCUPANCY SENSOR (EOS)

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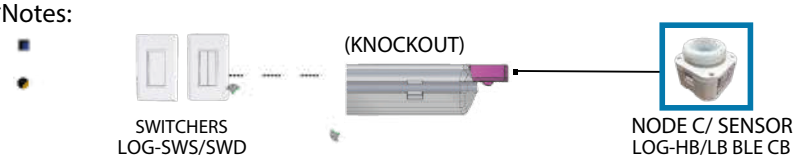
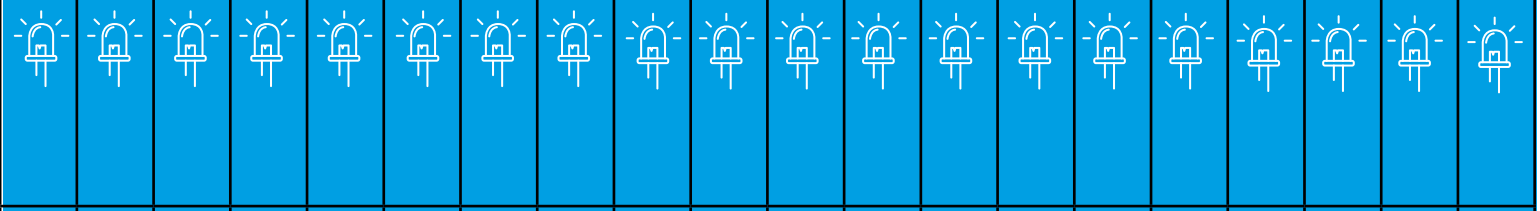
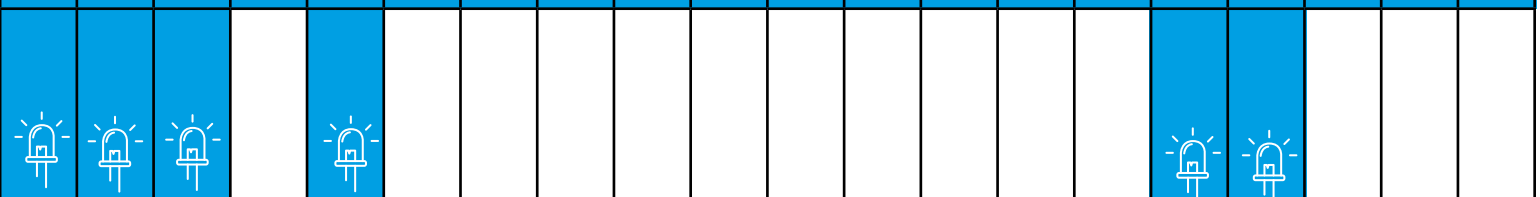
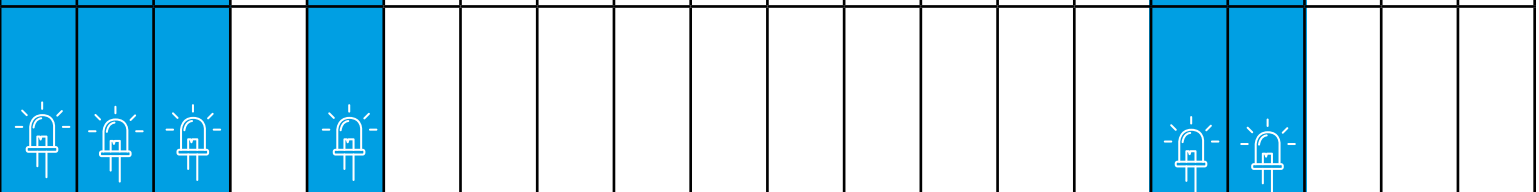
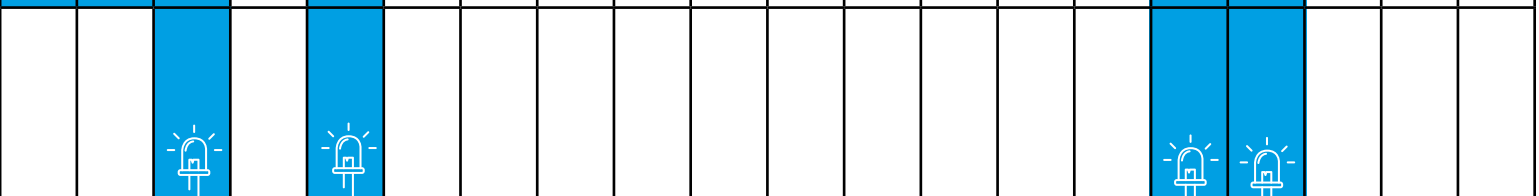
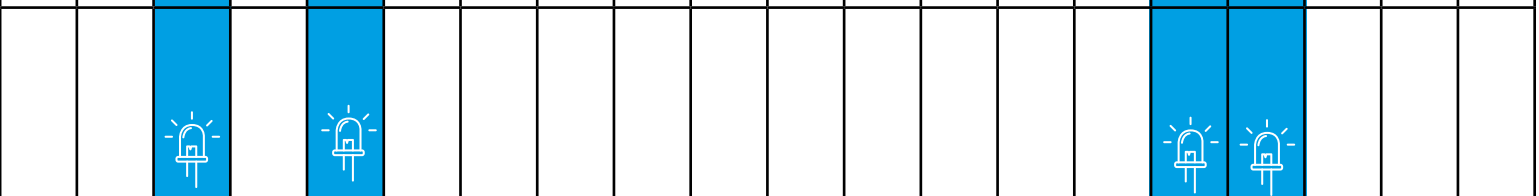


LOGICA® PRODUCT	MODEL	WIRELESS SENSOR AND DAILY LIGHT COLLECTION WITHOUT POWER AND MOTION SENSOR	BASIC SOLUTION SWITCH WITH WIRELESS USER INTERFACE AND NO POWER	ACCIAIO® ECO LED	ACCIAIO® LED BX920	ARIETIS LED	ATOMIC	BOXLED®	BOXLED® MIDI	BOXLED® MINI	BOXLED® PROYECTOR
RELAY	LOG-RLY-BLE CB		LOG-SWS	●	●	●	●	●	●	●	●
RELAY + SENSOR	LOG-RLY-BLE CB	LOG-EMDCB		●	●	●	●	●	●	●	●
NODE	LOG-NODE-BLE CB			●	●	●	●	●	●	●	●
NODE + SENSOR	LOG-NODE-BLE CB	LOG-EMDCB		●	●	●	●	●	●	●	●
NODE W/ SENSOR	LOG-HBKO/LBKO		LOG-SWD			●					
NODE W/ SENSOR (KNOCKOUT)	LOG-HB/LB BLE CB			●	●						

BS2000 LED	CENTURY	ILLUMINA® BS100LED	ILLUMINA® BS101 TUBO	ILLUMINA® BS101LED	ILLUMINA® BS 101LED ECO	ILLUMINA® BS102 LED	LEDLUMINA BS400LED	NUVOLA	PLANEX® ECO	POWER LIGHT	POWER LIGHT CRX	ROCK LED	RX11 LED	STRADA LED	STRIPLED	VALORE LITE	WALLPACK 45	WALLPACK 70	WALLPACK MURO
																			
																			
																			
																			
																			

Beghelli

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