LG Lighting Catalog

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Troffer Selection Guide
Since 1947, LG Electronics has enjoyed a legacy of innovation, developing exceptional products that meet customers’ needs while exceeding their expectations. Now, LG has brought that expertise to LED lighting, offering designers, property owners and contractors versatile retrofit options while assuring significant energy savings and fast payback.

LG Lighting

- **2018**
  - Introduces LG AI (Artificial Intelligence) ThinQ®

- **2016**
  - Launched LG SIGNATURE product lineup

- **2015**
  - Launched LG SENSOR CONNECT

- **2013**
  - First US-manufactured LG Troffer

- **2009**
  - LG fine LED-backlit TV released

- **2008**
  - Industry first: total global sales of 10M air conditioner units

- **2007**
  - Took the lead in U.S. slim air conditioner market

- **2004**
  - World’s highest annual sales in air conditioners: 15M units

LG Value
- Rapid payback with high efficiency

LG Technology
- ZigBee® wireless embedded

LG Quality
- Rigorous quality control standards

LG Design
- Superior light performance and aesthetics

LG Lighting
- Commercial Retrofit Downlight
- Performance HighBay (95lm/W)
- Single-Circuit Troffer
- Retrofit Board & Driver Kit
- Smart Multi Sensor
- Wireless Communication Module

LG Vertical Integration
- Unmatched supply chain reliability

LG is focused on driving profitability and payback in your project. That means increasing the return on investment with the highest efficacy LG lighting fixtures listed on the DLC. Efficiency pays back both in terms of reduced energy consumption and improved incentive eligibility. Improving payback is also about reducing first install costs by making installation easier. LG is also focused on protecting your project budget and timeline by delivering products that meet rigorous quality standards through vertically integrated supply chain.
LG SENSOR CONNECT

Benefits of LG SENSOR CONNECT

The LG SENSOR Connect system from LG Electronics meets the needs of small and medium-sized buildings that require a wireless lighting control solution but are constrained by cost. The LG SENSOR CONNECT system can operate without a higher networked element (e.g., gateway) and consists of an occupancy sensor, daylight harvesting sensor, and wireless switch as lowest-level device. The wireless switch also allows you to control lighting as desired, and the commissioning app allows you to easily control the luminaire you want during the setup. In the absence of communication with the wireless switch or between light nodes, each light node can still operate functions such as occupancy sensing, daylight harvesting, and high-end trim.

ZigBee wireless mesh control platform & sensors (occupancy sensing, daylight harvesting) embedded into luminaires, touting the exact same integration benefits with wireless lighting control solutions.

[ LG solves your problems ]

Specifiers
- Simple stand-alone system

Installers (facility managers)
- No re-circuiting or new control wiring
- Easy installation & maintenance

Building owners
- Saving installation & energy costs
- Provide optimum lighting control

[ A new generation of much simpler lighting control system ]

Easy Installation
- Tool-less installation
- Simple set-up for the installer
- Flexible layout

Excellent Savings
- Occupancy and daylight sensing
- Preset-schedule control
- App reports real-time energy savings

Intuitive Operation
- Easy and convenient for the end user
- Manual or automatic on/off/dimming
- Automated sensor control
- Remote monitoring & management

Easy installation & scalability

LG LED Lighting Fixtures seamlessly integrate with Autani and Current by GE

LG Lighting with ZigBee® wireless capability

LG Lighting is designed as a wireless-embedded system, which users can control wirelessly by simply inserting a compact communication dongle into the driver. By adopting ZigBee®, an open wireless protocol (compliant with customized ZigBee HA based on AES-128 encryption and IEEE 802.15.4), the system not only works seamlessly with devices that use the same protocol, but also integrates with the control systems of solution providers like Current by GE and Autani. Maximum distance between wireless nodes is 98ft for typical interior obstructions and 300ft for clear line of sight. Software and Firmware upgrade of the control devices are possible wirelessly via the commissioning app. Control device uses PWM for dimming control of the lighting. All LG control systems use linear dimming curve.

Individual Control
- SENSOR Luminaire
  - Module type plug & play sensor or sensor embedded lighting
- Wireless scheduling switch (option)

Group Control
- LG SENSOR CONNECT
  - Tool-less installation
  - Simple set-up for the installer
  - Flexible layout

Total control system with Current by GE & Autani

Total Management
- Total building management system with vendors 3rd party products & solutions

System Integration
- Premise based Device Manager
- Additional areas and buildings
- Ethernet/IP connection
- ZigBee® connection

Individual Control
- SENSOR Luminaire
  - Module type plug & play sensor or sensor embedded lighting
- Wireless scheduling switch (option)

Group Control
- LG SENSOR CONNECT
  - Tool-less installation
  - Simple set-up for the installer
  - Flexible layout

Total Management
- Total building management system with vendors 3rd party products & solutions
Better User Interface App
LG’s visualized App can upload a floor plan to outline locations and map the placements of the lights, enabling an intuitive commissioning process that reduces commissioning time.

**Benefits**
- Minimizes errors
  - Receives ID data from beneath each luminaire
  - Accurately maps the location of the physical luminaire
  - Alleviates dependency on barcode stickers
- Reduces commissioning costs
  - Reduces overall commissioning steps
  - Mapping devices can be done easily without the need for floor plans or barcode stickers
- Provides convenience for commissioners
  - Reduces commissioning hours
  - Fast way to receive ID data
  - Omits identifying device (On/ Off) step, which reduces tenant frustration

**Easy commissioning solutions**

**VLC Commissioning solution**
- Easy MAC ID importing via VLC (Visible Light Communication)
- Quick deployment by X and Y coordinate recognition

**LPCS (Lighting Pre-Commissioning Station)**
- Easy desk commissioning before lighting installation
- Troubleshooting and firmware update at site

**How LG SENSOR CONNECT system works for open-plan office**

01 The lighting group brightens up to the max level when the first occupant is detected.
02 As each occupant arrives at their desk space, the luminaires in the immediate area stay at the max level. After a while, remaining luminaires dim to the mid level. Automatic daylight harvesting occurs throughout the day.
03 When occupants leave their desk space, the luminaires in the immediate area dim to the mid level.
04 The luminaires turn off when no occupancy is detected from the entire lighting group.

**What LG SENSOR CONNECT can do**

- **Motion Detection**: Lights can be turned off or set to the minimum brightness if motion is not sensed for a specified period of time.
- **Daylight Harvesting**: Daylight levels are detected and brightness is offset automatically.
- **Simple Scheduling**: Without having to access external sources, additional energy savings are achieved by presetting lights to turn on/off and set brightness according to a desired schedule.
- **Mode Control**: An optimal environment can be created for a given purpose through simple control.

LG's visualized App can upload a floor plan to outline locations and map the placements of the lights, enabling an intuitive commissioning process that reduces commissioning time.

**Benefits**
- **Easy Commissioning**
  - Desk Commissioning before light installation
  - 2-1 sensors or modules can be commissioned at the same time per LPCS
- **Troubleshooting**
  - Factory reset (all sensors and wireless module)
  - Test device operation (LED ON/OFF)
- **Firmware update at site**
  - OTA with provided free commissioning App.

**Import Floor Plan Image**

**Offsite Commissioning**

**Online Commissioning**

**Import Floor Plan Image**

**Offline Commissioning**

**Online Commissioning**

**Commissioning App**

**Business Solutions**
Simple Choice Troffer Lay-in

[Features]
- System efficacy up to 1.30 lm/W
- Standard 0-10V dimming
- Wireless lighting control ready (ZigBee®)
- Sensor-embedded (occupancy sensing & daylight harvesting) models are available for additional energy savings
- Lumen maintenance up to L80 at 70,000 hours
- Adjustable high-end trim from 10% to 100%
- Sensor-embedded (occupancy sensing & daylight harvesting)
- Wireless lighting control ready (ZigBee®)
- Standard 0-10V dimming
- No re-circuiting or mounting for sensors
- Occupancy sensing & daylight harvesting
- Rugged housing
- Soft light
- When looking directly at the luminaire, the light is soft with low glare.

Occupancy sensing & daylight harvesting
- No re-circuiting or mounting for sensors
- Wireless control
- Pre-programmed optimal values
- Sensor's capabilities
  - Standalone Mode
  - Default = Max: 90%, Mid: 80%, Min: 0%
- Multi Sensor Light Level can be modified as follows:
  - Press Light Level button 1 = Max: 60%, Mid 60%, Min 0%
  - Press Light Level button 2 = Max: 40%, Mid 40%, Min 0%
  - Press Light Level button 3 = Max: 20%, Mid 20%, Min 0%
- Sensor Connect (commissioned with App)
- Full-range dimming using LG App, LG wireless switch
- 3rd party ZigBee® Control Software
- Full-range dimming

Rugged housing
The rugged housing does not easily get distorted when handled and the matt finish prevents fingerprints.

Specifications & Ordering Information

Product

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<th>Model code</th>
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</table>

Compliance
- eETLus Listed to UL 1598, suitable for damp location use
- cETLus Listed to UL 1598, suitable for damp location use (1'X4, 100 lm/W models)
- Based on photometric testing consistent with IES LM-79
- DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
Simple Choice Troffer Retrofit

[Features]
- All-in-one fixture can be installed in 3 minutes
- System efficacy up to 130 lm/W
- Standard 0-10V dimming
- Wireless lighting control ready (ZigBee®)
- Sensor-embedded (occupancy sensing & daylight harvesting) models are available for additional energy savings
- Lumen maintenance of L80 at 70,000 hours
- Adjustable high-end trim from 10% to 100%
- Sensor-embedded (occupancy sensing & daylight harvesting)
- Wireless lighting control ready (ZigBee®)
- Standard 0-10V dimming
- System efficacy up to 130 lm/W
- All-in-one fixture can be installed in 3 minutes
- Retrofit fixtures can be installed easily in 3 minutes
- Easy commissioning via VLC
- Easy installation with light weight and shallow depth
- Assemblies fit most existing troffer and parabolic fixtures
- Air-vent bracket option available

Quick upgrade solution
- Retrofit fixtures can be installed easily in 3 minutes
- Easy installation with light weight and shallow depth
- Assemblies fit most existing troffer and parabolic fixtures
- Air-vent bracket option available

Occupancy sensing & daylight harvesting
- No re-circuiting or mounting for sensors
- Wireless control
- Pre-programmed optimal values
- Sensor’s capabilities
  - Standalone Mode
  - Universal Brackets
  - Shallow Depth
    - 2.76 inch (70 mm)

Soft light
When looking directly at the luminaire, the light is soft with low glare

Specifications & Ordering Information

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<th>Product type</th>
<th>Model code (US order code)</th>
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<th>Life span</th>
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Compliance
- DLC Listed to UL 508, suitable for damp location use
- Based on photometric testing consistent with ES LM-79
- Rated lights Compliant with DLC Premium qualified products.
Safe Blue Troffer

[ Features ]

- Safe Blue, LG’s designed Blue-light, maximizes the benefit of Blue-light and minimizes hazards associated with Blue-light.
- Safe Blue is optimized for schools, hospitals and offices
- ZigBee® Multi(Occupancy+Daylight) sensor-embedded models are available for additional energy savings
- Lumen maintenance of L70 at 70,000 hours
- High uniformity for perfect atmosphere
- Easy installation with light weight body
- Easy commissioning via VLC

What is Blue-light?

- A part of visible light having wavelength around 415~495 nm.
- One of the shortest wavelengths of light, but the highest energy of photon that can reach the retinal cells.
- Blue-light has both hazardous and beneficial effects on human physiology.

Hazards of Blue-light

- Blue-light photoreceptor to RPE(Retinal Pigment Epithelium) concentrates in 415~455 nm, and leads to the production of ROS(Reactive Oxygen Species).
- ROS causes oxidative stress, damage to retinal cells, such as RPE cell Death and AMD(Age-related Macular Degeneration).
- In addition, it alters the transcription of genes belonging to different functional pathways including stress response, apoptosis and the immune response.

Benefits of Blue-light

- Melatonin contained in RGC(Retinal Ganglion Cells) is important to the daily recharging of the biological clock. The absorption spectrum of melatonin peaks at around 465~495 nm.
- RGC response to light regulates various physiological functions in the body, such as circadian entrainment by melatonin regulation, -Blue light performance including dexterity, memory, locomotion activity, pupil size, sleep, - core body temperature,

LG Safe Blue for Human

- LG proposes a new white LED source1) for human it uses blue emitting chips tuned for human physiology, reflecting medical research literatures on the effects of light on human body.

Specifications & Ordering Information

- Compliance
  - cULus Listed to UL 1598, suitable for damp location use
Wireless Dimming (Optional)

Remove the dongle cover on the driver then insert the LG wireless communication module connected to LG Smart Multi Sensor.

* When using wireless dimming function, 0-10 V dimming will not be served.

* 0-10 V dimming should be removed.

Attachment an Extended Trim Ring (Optional)

Pass conduit on the LED fixture assembly through the ring

Pull up the springs and push the fixture into the ring

Check if the ring is located in the middle of the fixture and install the integrated fixture as the installation guide above
Performance Highbay (IP65)

[ Features ]
- Easy installation with 9.5 lbs light weight and various mounting options
- Wide selection for control options
- Maximized energy saving by IP65 Multi Sensor (option)
- IP65, suitable for damp location use
- High efficiency up to 140 lm/W
- Long lifetime with outstanding durability
- Fast heat transfer with pure aluminum and dual layer structure
- Tempered glass & frost PET sheet
- NSF certified
- Easy commissioning via VLC (available at VLC models only)
- Adjustable high-end trim from 10% to 100%

Various mounting options

Highly efficient cooling system

- Sensor’s capabilities
  - Stroboscope Mode
  - Default = Max: 80%, Mid: 80%, Min: 0%
  - Multi Sensor light level can be modified to the following:
    - Press Light button x1 = Max: 60%, Mid: 60%, Min: 0%
    - Press Light button x2 = Max: 40%, Mid: 20%, Min: 0%
    - Press Light button x3 = Max: 20%, Mid: 20%, Min: 0%
  - Sensor Correct (commissioned with App)
- Full range dimming using LG App, LG wireless switch
- 3rd party ZigBee® Control Software
- Full range dimming

Light weight

9.5 lb (4.3 kg)

Various control solutions

Wireless communication module (Optional)

IP65 rating

Specifications & Ordering Information

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<tr>
<th>Product type</th>
<th>Model code (US order code)</th>
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<th>IP</th>
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<td>Performance Highbay (15000lm)</td>
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<td>12000</td>
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<td>-</td>
<td>-</td>
<td>119 (Ø460x158)</td>
<td>105 (304)</td>
<td>70,000</td>
</tr>
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</table>

Compliance
- cULus listed to UL 1598, suitable for damp location use
- Compliance with NSF/ANSI2
- Based on photometric testing consistent with IES LM-79
- Suitable for operation in ambient not exceeding 122 °F
- DLC Premium qualified product. Not all versions of this product may be DLC Premium qualified.
- Please check the DLC Qualified Products List at www.dlc.org, to confirm which versions are qualified.
Simple Choice Highbay (Gen2)

[Features & Benefits]
- High efficacy up to 150 lm/W for maximum energy savings
- Additional energy saving by VLC Multi(Occupancy+Daylight) sensor (option)
- Wide selection of control options
- Wide lumen package and light distributions (General, Narrow) enable various height and light level installation
- Clear lens standard for LED protection and frost lens available for glare control
- Easy carrying with light weight and easy installation with various mounting options
- Lightweight aluminum heat sink and vent hole designed for natural cooling
- Easy commissioning with VLC

Various mounting options

Optical options

Light weight

Wire Guard option

Specifications & Ordering Information

Product Type | Model code (US order code) | Efficacy | CRI | CCT | Beam | Lumen | Dimmable | Weight | Dimensions Horizontal | Dimensions Vertical |
<table>
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Photometrics

Zonal lumen summary

Compliance
- UL/cUL listed to UL 1598, suitable for damp location use
- Based on photometric testing consistent with IES LM-79
- Suitable for operation in ambient not exceeding 122 °F

LG Business Solutions
T8 Tube Retrofit Kit 2-Lamps & 1-Driver System

[Features]
- LED tube with a dedicated remote driver
- Better reliability and longer lifespan than LED tubes with internal drivers
- System efficacy up to 117 lm/W
- Wide beam angle (the angle light reaches is 270°)
- Standard 0-10 V dimming
- Wireless lighting control ready (ZigBee®)
- Enabled Smart Multi Sensor
- Lumen maintenance of L85 at 50,000 hours
- System efficacy up to 117 lm/W
- Better reliability and longer lifespan than LED tubes with internal drivers
- LED tube with a dedicated remote driver

Installation Procedure

Before

After

• Wireless Dimming Option
  - Wire dimming function is included (0-10 V)
  - Be careful of the polarity for correct dimming control.
  - To dim the lamps, a compatible dimmer should be used.
  - Compatible dimmer: NTFTV, DVTV (Lutron)

Wireless Dimming (Optional)

Remove the dongle cover on the driver then insert the LG wireless communication module connected to LG Smart Multi Sensor.
- When using wireless dimming function, 0-10 V dimming will not be served.
- Please refer to the Clip options for the detailed installation guide on page 26.

Wireless Communication Module

Smart Multi Sensor

Specifications & Ordering Information

Product type Input (W) Model code (US order code) Control Dimensions Weight Life span Base
External Driver (2-channels) - TC363ZHC.BUAAWAA (LGE-TUBE-DRIVER-2TUBE) 0-10 V (ZigBee ready) 11.1x1.6x1.3 (282x40x32) 0.6 (0.25)

Compliance

• LED retrofit luminaire conversion kit: cULus ClassIIfied to UL 1598C, suitable for damp location use
• LED tube: cULus recognized to UL 962, suitable for damp location use
• Driver: cULus recognized to UL 8750, suitable for damp location use
• DesignLights Consortium® qualified products
• Based on photometric testing consistent with IES LM-79
• DOE Energy Conservation Standards for External Power Supplies
Retrofit Board & Driver Kit

[Features]
- Simple retrofit solution for typical 2’X4’ fixtures
- Efficacy up to 152 lm/W at source level
- Wireless lighting control ready (2x3Be®)
- Enabled Smart Multi Sensor
- Easy installation by magnets
- Lumen maintenance of L85 at 50,000 hours
- Compliant with DOE EPS regulation (no load power <0.3W)
- Easy installation by magnets
- Enabled Smart Multi Sensor
- Efficacy up to 152 lm/W at source level

Retrofit Board & Driver Kit
- Please refer to the Clip options for the detailed installation guide on page 26.

Wireless Dimming (Optional)
- Remove the dolly cover on the driver then insert the LG wireless communication module connected to LG Smart Multi Sensor
- When using wireless dimming function, 0-10 V dimming will not be served.
- 0-10 V dimming should be removed.
- When using wireless dimming function, 0-10 V dimming will not be served.

Installation Procedure

Wireless Communication Module (Optional)
Smart Multi Sensor (Optional)

Compliance
- Retrofit Board & Driver Kit: cULus classified to UL 1598C, suitable for damp location use
- Driver: cULus recognized to UL 8750, suitable for damp location use
- DesignLights Consortium® qualified products
- Based on photometric testing consistent with IES LM-79
- DesignLights Consortium® (DLC)® Premium qualified product. Not all versions of this product may be DLC Premium qualified.
- Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Dimensions

Photometrics

Specifications & Ordering Information

Compliance
- Retrofit Board & Driver Kit: cULus classified to UL 1598C, suitable for damp location use
- Driver: cULus recognized to UL 8750, suitable for damp location use
- DesignLights Consortium® qualified products
- Based on photometric testing consistent with IES LM-79
- DesignLights Consortium® (DLC)® Premium qualified product. Not all versions of this product may be DLC Premium qualified.
- Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
Smart Multi Sensor, Wireless Communication Module

[Features]
- Maximizes energy savings with daylight harvesting and motion detection
- Automatically maintain illumination through daylight harvesting
- Automatic on/off/dimming by Occupancy detection
- Usable to max. 11.5ft (3.5m) high ceiling
- Individual or Group control
- The default setting is automatic on. This setting can be changed
- Use single PIR with photocell
- The default time delay setting is 30 minutes

Motion detecting area
Light sensing area

Specifications & Ordering Information

<table>
<thead>
<tr>
<th>Specifications &amp; Ordering Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product type</td>
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<tr>
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<tr>
<td>Smart Multi Sensor</td>
</tr>
<tr>
<td>Wireless Communication Module (AC powered type)</td>
</tr>
</tbody>
</table>

Scheduling Switch

[Features (Battery type)]
- Intuitive operation & function
- Minimize labor cost with easy installation
- ZigBee® wireless communication
- AAA alkaline battery powered (easy replacement)
- More energy saving with integrated scheduling function
- Integrated RTC (Real time clock) & back-up battery embedded for durability
- 0.72 inch (1.84 cm) slim & seek design

[Features (AC powered type)]
- Easy replacement to new or existing switch locations
- Fits into standard wallbox (deep wallbox preferred) and decorator style faceplate
- Minimize labor cost with easy configuration
- ZigBee® wireless communication
- Two-wire (non-neutral) applicable for retrofit applications
- Energy saving with set-scheduling
- Real time clock & back-up battery embedded for durability (rechargeable by line voltage)
- Intuitive operation & function
- Dimmer switch provides continuous dimming by holding down the button up/down
- Lighting output continuously adjusts in 256 step variables

Specifications & Ordering Information

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<tr>
<td>Scheduling Switch (Battery type)</td>
</tr>
<tr>
<td>Scheduling Switch (AC powered type)</td>
</tr>
</tbody>
</table>
ZigBee to Analogue (1-10V) Transformer

[Features]
- Applied Internal Load Switch to control AC main On/Off
- Integrated AC-DC supply for stand-alone operation
- Supports 1-10V Dimming
- 2.4GHz ZigBee® Transceiver
- Embedded antenna for easy installation and low-cost
- Flexible platform to accommodate diverse protocols
- Supports LG SENSOR CONNECT and Daintree Networks® ControlScope®
- Only mounted inside fixture or enclosure.
  (Does not provide enclosure; you have to purchase separately)
- Enclosure material guide
  - The enclosure material should be polymeric for the good communication.
  - have a minimum SVA flammability rating.

[Features (VLC ZigBee Connector)]
- Network setting
- Searching and grouping of devices
- Setting mode (Auto on/off, Scheduling operation)
- Easy MAC ID importing via VLC
- Easy connection to Android devices using USB

Wireless communication module (sold separately)

Smart multi sensor (sold separately)

ZigBee Connector, VLC ZigBee Connector

[Features (VLC ZigBee Connector)]
- Network setting
- Searching and grouping of devices
- Setting mode (Auto on/off, Scheduling operation)
- Easy MAC ID importing via VLC
- Easy connection to Android devices using USB

[Features (ZigBee Connector)]
- Network setting
- Searching and grouping of devices
- Setting mode (Auto on/off, Scheduling operation)

Dimension

Specifications & Ordering Information

<table>
<thead>
<tr>
<th>Product type</th>
<th>Model code (US order code)</th>
<th>Input power</th>
<th>Input voltage</th>
<th>Input frequency</th>
<th>Load Rating</th>
<th>Load Types</th>
<th>Dimensions</th>
<th>Weight</th>
<th>Operating temp</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZigBee to Analogue</td>
<td>9CM2315VD2.AWP01U (LGE-NEW DONGLE)</td>
<td>Max 0.18</td>
<td>240-280</td>
<td>2.4GM to 2.48GM</td>
<td>20</td>
<td>0.80x2.0x0.7 (20x50x17)</td>
<td>Cable : Ø0.16x31.5 (Ø4.0x800)</td>
<td>0.4 (10)</td>
<td>-4 ~ 122°F (-20 ~ 50°C)</td>
<td>1-10</td>
</tr>
</tbody>
</table>

Compliance

• *: cULus listed to UL 916
LPCS (Lighting Pre Commissioning Station)

[ Features ]
- Easy Commissioning
  - Desk Commissioning before installation
  - 21 sensors or modules can be commissioned at the same time
- Troubleshooting
  - Factory reset (all sensors and wireless module)
  - Test device operation (LED ON/OFF)
- Firmware update at site
  - OTA with provided free commissioning App.

Before commissioning process,
Make a plan on how to divide groups in a zone
- A zone holds up to 50 luminaires and 16 groups
- Each group can have only one switch

Ensure luminaires have sensor or wireless module
1. Turn on Lighting Pre Commissioning Station
   - Push power button and check power LED on
2. Connect sensors(wireless modules) to Station
   - Insert all sensors(wireless modules) of a group into station slots
   - Ensure slot light of occupied slot is ON (If slot light does not turn on, refer to troubleshooting guide)
3. Commissioning and group setting
   - According to the commissioning guide, search for sensors(modules) and assign them to a group.
   - Then, set and save the group parameters.
   - If any sensors(wireless modules) need to be initialized, toggle the power button OFF & ON 10 times.
   - If you do not wish to initialize all 7 devices in a row, simply disconnect the device from the station.
4. Identification
   - Ensure to label group of sensors(modules). For example, you can attach group name labels on sensors(modules) of a group

Specifications & Ordering Information

<table>
<thead>
<tr>
<th>Product type</th>
<th>Model code (US order code)</th>
<th>Input voltage</th>
<th>Output voltage</th>
<th>Guides</th>
<th>Status Monitoring</th>
<th>Weight</th>
<th>Dimensions</th>
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</thead>
<tbody>
<tr>
<td>LPCS (Lighting Pre Commissioning Station)</td>
<td>9CS14N15-501.ABP01U (LPCS)</td>
<td>100 – 240V</td>
<td>DC 3.3V</td>
<td>21</td>
<td>21</td>
<td>1.10(kg)</td>
<td>4.84x2.80x0.49 (123x71x12.5)</td>
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</tbody>
</table>

Applicable product
You can mix and match sensors and modules for commissioning

[ Smart Multi Sensor ]  [ IP65 Multi Sensor ]

[ Wireless Communication Module ]  [ Scheduling Switch ]

Example Lighting layout drawing
### Commercial Terms and Conditions

**Terms**
- Credit accounts: Invoice payments are required to be paid in Net Thirty (30) Days.
- Cash account: 100% balance of payment due before shipping.
- 1.5% monthly service charge imposed on all accounts past due in excess of thirty (30) days on the unpaid balance, except where prohibited by law.
- Customer is held responsible for any fees arising from third party collection efforts.

**Orders**
- The minimum order charge for LGE LED Lighting lamps, fixtures, or control is $100.00.
- All orders will be accepted by facsimile or electronic means only (E.D.I. preferably).
- The minimum order charge for LGE LED Lighting lamps, fixtures, or control is $100.00.
- All orders are subject to availability.
- All special freight charges (including overnight airfare) will be billed to the customer requesting the special freight handling.
- Hold for Release (HFR) orders will only be accepted with an approximate release date, and are subject to applicable price increases.

**Cancellations**
- Orders cannot be cancelled without prior written LGE consent.
- All cancellations requests must be submitted in writing to LGE and will be subject to restocking fees.
- All freight on returns will not be credited. Collect return shipments will not be accepted.
- All returns to be inspected by LGE.
- Returned merchandise must be in original LGE packaging and deemed suitable for resale by LGE.
- All returns are subject to restocking fee of 30% of the order.
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**Freight**
- The following prepaid freight terms apply to orders shipped from LG Electronics U.S.A., Inc. warehouses.
- For LGE LED Lighting order of $1,500 or greater, customer will receive LG pre-paid freight services.
- Special freight handling, including international deliveries, must be submitted in writing to LGE.
- All freight claims for damaged or lost-in-transit material must be made directly to the carrier.
- Freight on returns will not be credited. Collect return shipments will not be accepted.
- All returns to be inspected by LGE.
- Damaged products will not be accepted.

**Point of contact**
- For more information, please visit www.lglightingus.com

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### Troffer Selection Guide

#### Simple Choose Troffer

<table>
<thead>
<tr>
<th>Model Code</th>
<th>Model Code w/ Sensor</th>
<th>Description</th>
<th>Power</th>
<th>CCT</th>
<th>Dimming</th>
<th>Beam Angle</th>
<th>Warranty</th>
<th>Life</th>
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### Safe Blue Troffer

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