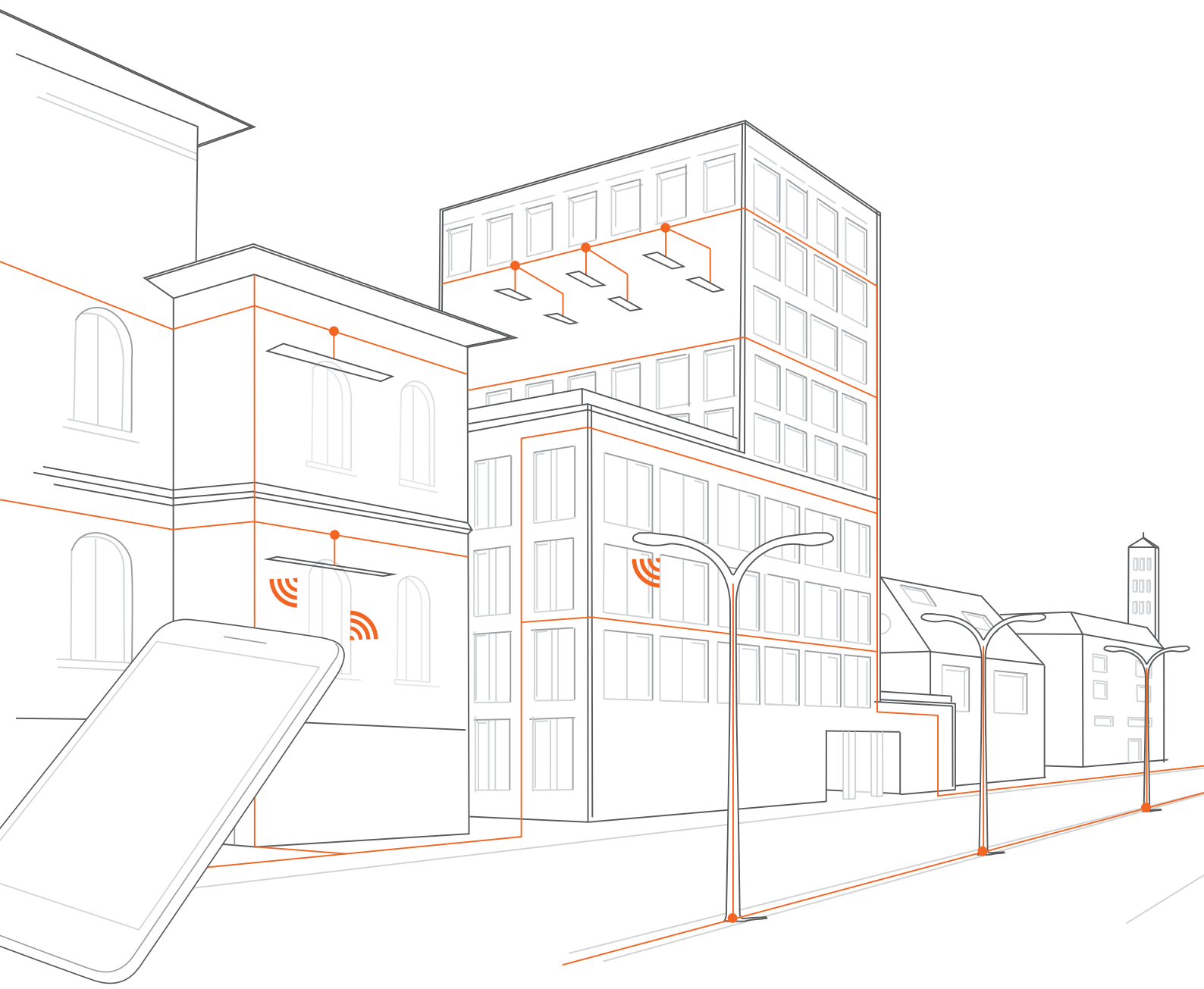
# Digital Systems 2018

OSRAM brings together outstanding future-proof LED modules, drivers and control for professional lighting partners.



Light is OSRAM

OSRAM

# Creating the future of light with OSRAM

For more than 100 years, the trademark OSRAM stands for innovative and sustainable development in the global lighting market. Today, OSRAM is one of the world's largest suppliers of products and solutions for a wide range of customer requirements - from lamps and modules to luminaires and high-efficiency light management systems.

OSRAM focuses all its resources on the subject of light, actively supporting its customers in making the best choices to meet their individual requirements.

With more than 40000 employees in around 150 countries. OSRAM develops tailor-made solutions to cover the specific needs of its customers.

OSRAM's energy efficient indoor and outdoor luminaires offer an outstanding performance in every respect. The service life of our LED Luminaires is upto 25 times longer than that of luminaires equipped with conventional incandescent lamps. Our mercury free LED luminaires do not only lower $CO_2$ emissions, they also help to prevent waste.



# You have the idea – we have the components and systems!

Develop tomorrow’s lighting solutions with innovative LED components and LED systems from OSRAM Digital Lighting Systems.

©Ralph Larmann

## OSRAM ensures that your lighting ideas become reality

No matter what you are planning, OSRAM Digital Lighting Systems enables you to bring all your LED projects to a successful conclusion – simply and efficiently. We offer a broad range of components from a single source – LED drivers, modules and light management systems (LMS) – not to mention complete systems for every type of LED luminaire and nearly every application.

You can completely rely on OSRAM. We offer fast access to a very wide and innovative product portfolio of a consistently high quality. As our partner, you will profit from more than 20 years of experience in LED lighting technology, a powerful global brand with comprehensive services and individual support provided before, during and after your projects



## OSRAM Digital Lighting Systems’ wide range of products and services helps you give your customers what they want:

### Design flexibility

Complete component portfolio, created with maximum compatibility and design freedom in mind, individual design-in support and customer-specific mass production.

### User friendliness

Simple selection, configuration, installation and use, reliable operations for the product’s entire lifespan.

### Stability

Proven brand quality, long-life, efficient products, optimally coordinated systems.

### Planning security

Complexity and risk reduction, simple and efficient warehousing.

### OSRAM guarantee

Three or five years guarantee for our products and systems (details and general requirements: www.osram.com/guarantee)



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## Light Engine – Spot Downlights

PrevaLED® COIN 50 DC COB G1
PrevaLED® COIN 111 DC COB G1
PrevaLED® CORE Pro
PrevaLED® CORE Mini

# PrevaLED® COIN

**Light is reliable: Quickly connect to the LED age**

There are a number of reasons why the PrevaLED® COIN 50 and PrevaLED® COIN 111 are very popular choices. Both products combine effortless and quick installation with easy operation with OSRAM drivers, long lifetime, high reliability and an amazing level of efficiency. Moreover, PrevaLED® COIN is highly flexible due to the easy replacement of the modules. It is an easy and simple solution for MR16 and AR111 form factors.

## PrevaLED® COIN 50 DC COB G1

LED Modules with Integrated Optics and Heat Sinks



### Benefits

- Compact form factor compatible with conventional MR16 CDM lamps
- High color rendering performance, complying with IES TM30
- Free from multi-shadow issue with single light source
- Flexible combination of flux output and beam angle

### Applications

- Retail, Shop
- Restaurant
- Hospitality
- Gallery and museum

### Technical Operating Data

| Product | EAN | Nominal If [mA] | Vin dc | Nominal Power [W] | Radiance Angle [°] | Color Temp. [K] | Nominal Flux [lm] | Typ. CRI [Ra] |
|---|---|---|---|---|---|---|---|---|
| PL-CN50-COB-900-927-15D-G1 | 4052899583603 | 350 | 35.2 | 12.3 | 15 | 2700 | 980 | 90 |
| PL-CN50-COB-900-927-24D-G1 | 4052899583627 | 350 | 35.2 | 12.3 | 24 | 2700 | 960 | 90 |
| PL-CN50-COB-900-927-40D-G1 | 4052899583641 | 350 | 35.2 | 12.3 | 40 | 2700 | 920 | 90 |
| PL-CN50-COB-900-930-15D-G1 | 4052899541153 | 350 | 35.2 | 12.3 | 15 | 3000 | 1040 | 90 |
| PL-CN50-COB-900-930-24D-G1 | 4052899541191 | 350 | 35.2 | 12.3 | 24 | 3000 | 1020 | 90 |
| PL-CN50-COB-900-930-40D-G1 | 4052899541757 | 350 | 35.2 | 12.3 | 40 | 3000 | 980 | 90 |
| PL-CN50-COB-900-940-15D-G1 | 4052899541771 | 350 | 35.2 | 12.3 | 15 | 4000 | 1090 | 90 |
| PL-CN50-COB-900-940-24D-G1 | 4052899541795 | 350 | 35.2 | 12.3 | 24 | 4000 | 1120 | 90 |
| PL-CN50-COB-900-940-40D-G1 | 4052899541818 | 350 | 35.2 | 12.3 | 40 | 4000 | 1050 | 90 |
| PL-CN50-COB-1200-865-40D-G1 | 4052899541832 | 250 | 35.9 | 9 | 40 | 6500 | 1130 | 80 |
| PL-CN50-COB-1400-830-24D-G1 | 4052899541870 | 350 | 36.9 | 12.9 | 24 | 3000 | 1430 | 80 |
| PL-CN50-COB-1400-830-40D-G1 | 4052899541894 | 350 | 36.9 | 12.9 | 40 | 3000 | 1360 | 80 |
| PL-CN50-COB-1400-840-24D-G1 | 4052899541917 | 350 | 36.9 | 12.9 | 24 | 4000 | 1510 | 80 |
| PL-CN50-COB-1400-840-40D-G1 | 4052899541931 | 350 | 36.9 | 12.9 | 40 | 4000 | 1430 | 80 |

1. Nominal performance is measured at steady state when: PL-CN50-COB-900-xxx-xxD-G1 @ Tp=75°C, PL-CN50-COB-1200-xxx-xxD-G1@ Tp=60°C, PL-CN50-COB-1400-xxx-xxD-G1 @ Tp=75°C. ** Lifetime L70B50 (lumen maintenance) up to 50,000hrs at Ta = 25°C.
2. Tolerance of measurements for the luminous flux is and efficacy ±5%.

### Technical Features

- Color consistency < 3 SDCM.
- CRI 80 and 90 (TM30 compliant)
- Flux range 980 – 1500lm
- Beam angle 15° (On demand), 24°, 40°

# PrevaLED® COIN 111 DC COB G1

## LED Modules with Integrated Optics and Heat Sinks



### Benefits

- Compact form factor compatible with conventional AR111 CDM lamps
- High color rendering performance, complying with IES TM30
- Free from multi-shadow issue with single light source
- Flexible combination of flux output and beam angle

### Applications

- Retail, Shop
- Restaurant
- Hospitality
- Gallery and museum

### Technical Operating Data

| Product | EAN | Nominal If [mA] | Vin dc | Nominal Power [W] | Radiance Angle [°] | Color Temp. [K] | Nominal Flux [lm] | Typ. CRI [Ra] |
|---|---|---|---|---|---|---|---|---|
| PL-CN111-COB-1800-927-15D-G1 | 4052899583665 | 500 | 35.9 | 18.0 | 15 | 2700 | 1730 | 90 |
| PL-CN111-COB-1800-927-24D-G1 | 4052899583689 | 500 | 35.9 | 18.0 | 24 | 2700 | 1770 | 90 |
| PL-CN111-COB-1800-927-40D-G1 | 4052899583702 | 500 | 35.9 | 18.0 | 40 | 2700 | 1700 | 90 |
| PL-CN111-COB-1800-930-15D-G1 | 4052899541399 | 500 | 35.9 | 18 | 15 | 3000 | 1840 | 90 |
| PL-CN111-COB-1800-930-24D-G1 | 4052899541412 | 500 | 35.9 | 18 | 24 | 3000 | 1880 | 90 |
| PL-CN111-COB-1800-930-40D-G1 | 4052899541436 | 500 | 35.9 | 18 | 40 | 3000 | 1800 | 90 |
| PL-CN111-COB-1800-940-15D-G1 | 4052899541450 | 500 | 35.9 | 18 | 15 | 4000 | 1940 | 90 |
| PL-CN111-COB-1800-940-24D-G1 | 4052899541474 | 500 | 35.9 | 18 | 24 | 4000 | 1990 | 90 |
| PL-CN111-COB-1800-940-40D-G1 | 4052899541498 | 500 | 35.9 | 18 | 40 | 4000 | 1910 | 90 |
| PL-CN111-COB-2800-830-15D-G1 | 4052899541511 | 700 | 37.0 | 25.9 | 15 | 3000 | 2650 | 80 |
| PL-CN111-COB-2800-830-24D-G1 | 4052899541535 | 700 | 37.0 | 25.9 | 24 | 3000 | 2700 | 80 |
| PL-CN111-COB-2800-830-40D-G1 | 4052899541559 | 700 | 37.0 | 25.9 | 40 | 3000 | 2760 | 80 |
| PL-CN111-COB-2800-840-15D-G1 | 4052899541573 | 700 | 37 | 25.9 | 15 | 4000 | 2780 | 80 |
| PL-CN111-COB-2800-840-24D-G1 | 4052899541597 | 700 | 37 | 25.9 | 24 | 4000 | 2830 | 80 |
| PL-CN111-COB-2800-840-40D-G1 | 4052899541610 | 700 | 37.0 | 25.9 | 40 | 4000 | 2900 | 80 |
| PL-CN111-COB-4300-830-24D-G1 | 4052899541634 | 1050 | 35.8 | 37.6 | 24 | 3000 | 4640 | 80 |
| PL-CN111-COB-4300-830-40D-G1 | 4052899541658 | 1050 | 35.8 | 37.6 | 40 | 3000 | 4460 | 80 |
| PL-CN111-COB-4300-830-60D-G1 | 4052899541672 | 1050 | 35.8 | 37.6 | 60 | 3000 | 4430 | 80 |
| PL-CN111-COB-4300-840-24D-G1 | 4052899541696 | 1050 | 35.8 | 37.6 | 24 | 4000 | 4870 | 80 |
| PL-CN111-COB-4300-840-40D-G1 | 4052899541719 | 1050 | 35.8 | 37.6 | 40 | 4000 | 4680 | 80 |
| PL-CN111-COB-4300-840-60D-G1 | 4052899541733 | 1050 | 35.8 | 37.6 | 60 | 4000 | 4660 | 80 |

1. Nominal performance is measured at steady status when: PL-CN111-COB-1800-xxx-xxD-G1 @ Tp=55°C, PL-CN111-COB-2800-xxx-xxD-G1@ Tp=65°C, @ PL-CN111-COB-4300-xxx-xxD-G1 @ Tp=75°C.
2. Tolerance of measurements for the luminous flux is and efficacy ±5%

### Technical Features

- Color consistency: < 3 SDCM
- CRI 80 and 90 (TM30 compliant)
- Flux range 1800 – 4800lm
- Beam angle 15°, 24°, 40°, 60°
- L80B50 50khrs at Ta 25$^{0}$C





# PrevaLED® CORE Pro

## COB Light Engines and Modules for Spot Lights, Down Lights and Wall Mounted Luminaires



### Benefits

- High quality of light, complying with IES TM30-15 standard
- Separable COB and holder to improve assembly flexibility
- Single LES 19mm with wide flux range to simplify optics solution
- Industrial standard package size to shorten design lead-time

### Applications

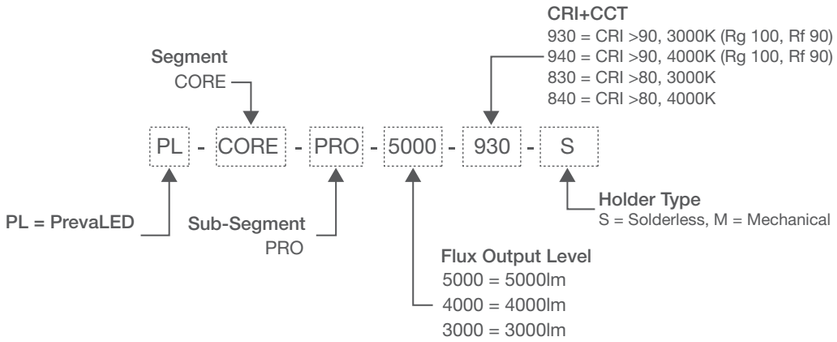
- Retail shop
- Restaurant, Hospitality
- Gallery and Museum

### Technical Operating Data

| Product | EAN | Nominal If [mA] | Nominal Voltage | Nominal Power [W] | Color Temp. [K] | Typical Flux [lm] | Typ. CRI [Ra] | Efficacy [lm/W] |
|---|---|---|---|---|---|---|---|---|
| PL-CORE-PRO-5000-830-S | 4052899546325 | 1050 | 35.1 | 36.6 | 3000 | 5348 | 82 | 146 |
| PL-CORE-PRO-5000-835-S | 4052899546349 | 1050 | 35.1 | 36.6 | 3500 | 5505 | 82 | 150 |
| PL-CORE-PRO-5000-840-S | 4052899546363 | 1050 | 35.1 | 36.6 | 4000 | 5615 | 82 | 153 |
| PL-CORE-PRO-5000-927-S | 4052899546387 | 1050 | 35.1 | 36.6 | 2700 | 4365 | 92 | 119 |
| PL-CORE-PRO-5000-930-S | 4052899546400 | 1050 | 35.1 | 36.6 | 3000 | 4581 | 92 | 125 |
| PL-CORE-PRO-5000-935-S | 4052899546424 | 1050 | 35.1 | 36.6 | 3500 | 4718 | 92 | 129 |
| PL-CORE-PRO-4000-830-S | 4052899546448 | 800 | 34.9 | 27.9 | 3000 | 4172 | 82 | 150 |
| PL-CORE-PRO-4000-835-S | 4052899546462 | 800 | 34.9 | 27.9 | 3500 | 4294 | 82 | 154 |
| PL-CORE-PRO-4000-840-S | 4052899546486 | 800 | 34.9 | 27.9 | 4000 | 4380 | 82 | 157 |
| PL-CORE-PRO-4000-927-S | 4052899546509 | 800 | 34.9 | 27.9 | 2700 | 3398 | 92 | 122 |
| PL-CORE-PRO-4000-930-S | 4052899546523 | 800 | 34.9 | 27.9 | 3000 | 3574 | 92 | 128 |
| PL-CORE-PRO-4000-935-S | 4052899546547 | 800 | 34.9 | 27.9 | 3500 | 3680 | 92 | 132 |
| PL-CORE-PRO-3000-830-S | 4052899546561 | 600 | 34.9 | 20.9 | 3000 | 3189 | 82 | 153 |
| PL-CORE-PRO-3000-835-S | 4052899546585 | 600 | 34.9 | 20.9 | 3500 | 3287 | 82 | 157 |
| PL-CORE-PRO-3000-840-S | 4052899546608 | 600 | 34.9 | 20.9 | 4000 | 3355 | 82 | 161 |
| PL-CORE-PRO-3000-927-S | 4052899546622 | 600 | 34.9 | 20.9 | 2700 | 2590 | 92 | 124 |
| PL-CORE-PRO-3000-930-S | 4052899546646 | 600 | 34.9 | 20.9 | 3000 | 2716 | 92 | 130 |
| PL-CORE-PRO-3000-935-S | 4052899546660 | 600 | 34.9 | 20.9 | 3500 | 2815 | 92 | 135 |
| PL-CORE-PRO-5000-830-M | 4052899546684 | 1050 | 35.1 | 36.6 | 3000 | 5348 | 82 | 146 |
| PL-CORE-PRO-5000-835-M | 4052899546707 | 1050 | 35.1 | 36.6 | 3500 | 5505 | 82 | 150 |
| PL-CORE-PRO-5000-840-M | 4052899546721 | 1050 | 35.1 | 36.6 | 4000 | 5615 | 82 | 153 |
| PL-CORE-PRO-5000-927-M | 4052899546745 | 1050 | 35.1 | 36.6 | 2700 | 4365 | 92 | 119 |
| PL-CORE-PRO-5000-930-M | 4052899546769 | 1050 | 35.1 | 36.6 | 3000 | 4581 | 92 | 125 |
| PL-CORE-PRO-5000-935-M | 4052899546783 | 1050 | 35.1 | 36.6 | 3500 | 4718 | 92 | 129 |
| PL-CORE-PRO-4000-830-M | 4052899546806 | 800 | 34.9 | 27.9 | 3000 | 4172 | 82 | 150 |

| Product | EAN | Nominal If [mA] | Nominal Voltage | Nominal Power [W] | Color Temp. [K] | Typical Flux [lm] | Typ. CRI [Ra] | Efficacy [lm/W] |
|---|---|---|---|---|---|---|---|---|
| PL-CORE-PRO-4000-835-M | 4052899546820 | 800 | 34.9 | 27.9 | 3500 | 4294 | 82 | 154 |
| PL-CORE-PRO-4000-840-M | 4052899546844 | 800 | 34.9 | 27.9 | 4000 | 4380 | 82 | 157 |
| PL-CORE-PRO-4000-927-M | 4052899546868 | 800 | 34.9 | 27.9 | 2700 | 3398 | 92 | 122 |
| PL-CORE-PRO-4000-930-M | 4052899546882 | 800 | 34.9 | 27.9 | 3000 | 3574 | 92 | 128 |
| PL-CORE-PRO-4000-935-M | 4052899546905 | 800 | 34.9 | 27.9 | 3500 | 3680 | 92 | 132 |
| PL-CORE-PRO-3000-830-M | 4052899546929 | 600 | 34.9 | 20.9 | 3000 | 3189 | 82 | 153 |
| PL-CORE-PRO-3000-835-M | 4052899546943 | 600 | 34.9 | 20.9 | 3500 | 3287 | 82 | 157 |
| PL-CORE-PRO-3000-840-M | 4052899546967 | 600 | 34.9 | 20.9 | 4000 | 3355 | 82 | 161 |
| PL-CORE-PRO-3000-927-M | 4052899546981 | 600 | 34.9 | 20.9 | 2700 | 2590 | 92 | 124 |
| PL-CORE-PRO-3000-930-M | 4052899547001 | 600 | 34.9 | 20.9 | 3000 | 2716 | 92 | 130 |
| PL-CORE-PRO-3000-935-M | 4052899547025 | 600 | 34.9 | 20.9 | 3500 | 2815 | 92 | 135 |

## Product Code Nomenclature




### Technical Features

- Color consistency < 3 SDCM
- TM30 compliant, Rf 90, Rg 100
- Max. current > 2 x nominal current
- Luminous efficacy up to 160lm/W





# PrevaLED® CORE Mini

## COB Light Engines and Modules for Spot Lights, Down Lights and Wall Mounted Luminaires



### Benefits

- High quality of light, complying with IES TM30-15 standard
- Separable COB and holder to improve assembly flexibility
- LES 14.5mm/9.8mm with wide flux range to simplify optics solution
- Industrial standard package size to shorten design lead-time

### Applications

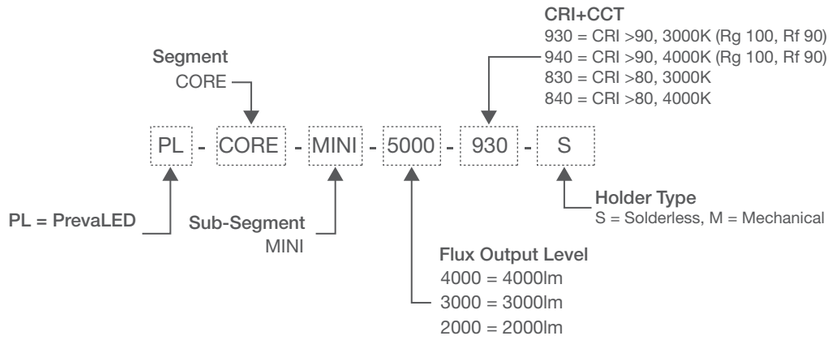
- Retail shop
- Restaurant
- Hospitality
- Gallery and museum

### Technical Operating Data

| Product | EAN | Nominal If [mA] | Typical Voltage | Nominal Power [W] | Color Temp. [K] | Typical Flux [lm] | Typ. CRI [Ra] | Efficacy [lm/W] |
|---|---|---|---|---|---|---|---|---|
| PL-CORE-MINI-4000-830-S | 4052899547124 | 800 | 34.9 | 29.2 | 3000 | 4131 | 82 | 148 |
| PL-CORE-MINI-4000-835-S | 4052899547148 | 800 | 34.9 | 29.2 | 3500 | 4252 | 82 | 152 |
| PL-CORE-MINI-4000-840-S | 4052899547162 | 800 | 34.9 | 29.2 | 4000 | 4337 | 82 | 155 |
| PL-CORE-MINI-4000-927-S | 4052899547186 | 800 | 34.9 | 29.2 | 2700 | 3364 | 92 | 121 |
| PL-CORE-MINI-4000-930-S | 4052899547209 | 800 | 34.9 | 29.2 | 3000 | 3539 | 92 | 127 |
| PL-CORE-MINI-4000-935-S | 4052899547223 | 800 | 34.9 | 29.2 | 3500 | 3644 | 92 | 131 |
| PL-CORE-MINI-3000-830-S | 4052899547247 | 500 | 34.9 | 17.5 | 3000 | 2663 | 82 | 153 |
| PL-CORE-MINI-3000-835-S | 4052899547261 | 500 | 34.9 | 17.5 | 3500 | 2762 | 82 | 158 |
| PL-CORE-MINI-3000-840-S | 4052899547285 | 500 | 34.9 | 17.5 | 4000 | 2811 | 82 | 161 |
| PL-CORE-MINI-3000-927-S | 4052899547308 | 500 | 34.9 | 17.5 | 2700 | 2119 | 92 | 122 |
| PL-CORE-MINI-3000-930-S | 4052899547322 | 500 | 34.9 | 17.5 | 3000 | 2244 | 92 | 128 |
| PL-CORE-MINI-3000-935-S | 4052899547346 | 500 | 34.9 | 17.5 | 3500 | 2311 | 92 | 132 |
| PL-CORE-MINI-2000-830-S | 4052899547360 | 350 | 34.5 | 12.1 | 3000 | 1812 | 82 | 150 |
| PL-CORE-MINI-2000-835-S | 4052899547384 | 350 | 34.5 | 12.1 | 3500 | 1868 | 82 | 155 |
| PL-CORE-MINI-2000-840-S | 4052899547407 | 350 | 34.5 | 12.1 | 4000 | 1902 | 82 | 158 |
| PL-CORE-MINI-2000-927-S | 4052899547421 | 350 | 34.5 | 12.1 | 2700 | 1472 | 82 | 122 |
| PL-CORE-MINI-2000-930-S | 4052899547445 | 350 | 34.5 | 12.1 | 3000 | 1541 | 92 | 128 |
| PL-CORE-MINI-2000-935-S | 4052899547469 | 350 | 34.5 | 12.1 | 3500 | 1595 | 92 | 132 |
| PL-CORE-MINI-4000-830-M | 4052899547520 | 800 | 34.9 | 29.2 | 3000 | 4131 | 82 | 148 |
| PL-CORE-MINI-4000-835-M | 4052899547544 | 800 | 34.9 | 29.2 | 3500 | 4252 | 82 | 152 |
| PL-CORE-MINI-4000-840-M | 4052899547568 | 800 | 34.9 | 29.2 | 4000 | 4337 | 82 | 155 |
| PL-CORE-MINI-4000-927-M | 4052899547582 | 800 | 34.9 | 29.2 | 2700 | 3364 | 92 | 121 |
| PL-CORE-MINI-4000-930-M | 4052899547605 | 800 | 34.9 | 29.2 | 3000 | 3539 | 92 | 127 |
| PL-CORE-MINI-4000-935-M | 4052899547629 | 800 | 34.9 | 29.2 | 3500 | 3644 | 92 | 131 |
| PL-CORE-MINI-3000-830-M | 4052899547643 | 500 | 34.9 | 17.5 | 3000 | 2663 | 82 | 153 |

| Product | EAN | Nominal If [mA] | Typical Voltage | Nominal Power [W] | Color Temp. [K] | Typical Flux [lm] | Typ. CRI [Ra] | Efficacy [lm/W] |
|---|---|---|---|---|---|---|---|---|
| PL-CORE-MINI-3000-835-M | 4052899547667 | 500 | 34.9 | 17.5 | 3500 | 2762 | 82 | 158 |
| PL-CORE-MINI-3000-840-M | 4052899547681 | 500 | 34.9 | 17.5 | 4000 | 2811 | 82 | 161 |
| PL-CORE-MINI-3000-927-M | 4052899547704 | 500 | 34.9 | 17.5 | 2700 | 2119 | 92 | 122 |
| PL-CORE-MINI-3000-930-M | 4052899547728 | 500 | 34.9 | 17.5 | 3000 | 2244 | 92 | 128 |
| PL-CORE-MINI-3000-935-M | 4052899547742 | 500 | 34.9 | 17.5 | 3500 | 2311 | 92 | 132 |
| PL-CORE-MINI-2000-830-M | 4052899547766 | 350 | 34.5 | 12.1 | 3000 | 1812 | 82 | 150 |
| PL-CORE-MINI-2000-835-M | 4052899547780 | 350 | 34.5 | 12.1 | 3500 | 1868 | 82 | 155 |
| PL-CORE-MINI-2000-840-M | 4052899547803 | 350 | 34.5 | 12.1 | 4000 | 1902 | 82 | 158 |
| PL-CORE-MINI-2000-927-M | 4052899547827 | 350 | 34.5 | 12.1 | 2700 | 1472 | 82 | 122 |
| PL-CORE-MINI-2000-930-M | 4052899547841 | 350 | 34.5 | 12.1 | 3000 | 1541 | 92 | 128 |
| PL-CORE-MINI-2000-935-M | 4052899547865 | 350 | 34.5 | 12.1 | 3500 | 1595 | 92 | 132 |

## Product Code Nomenclature

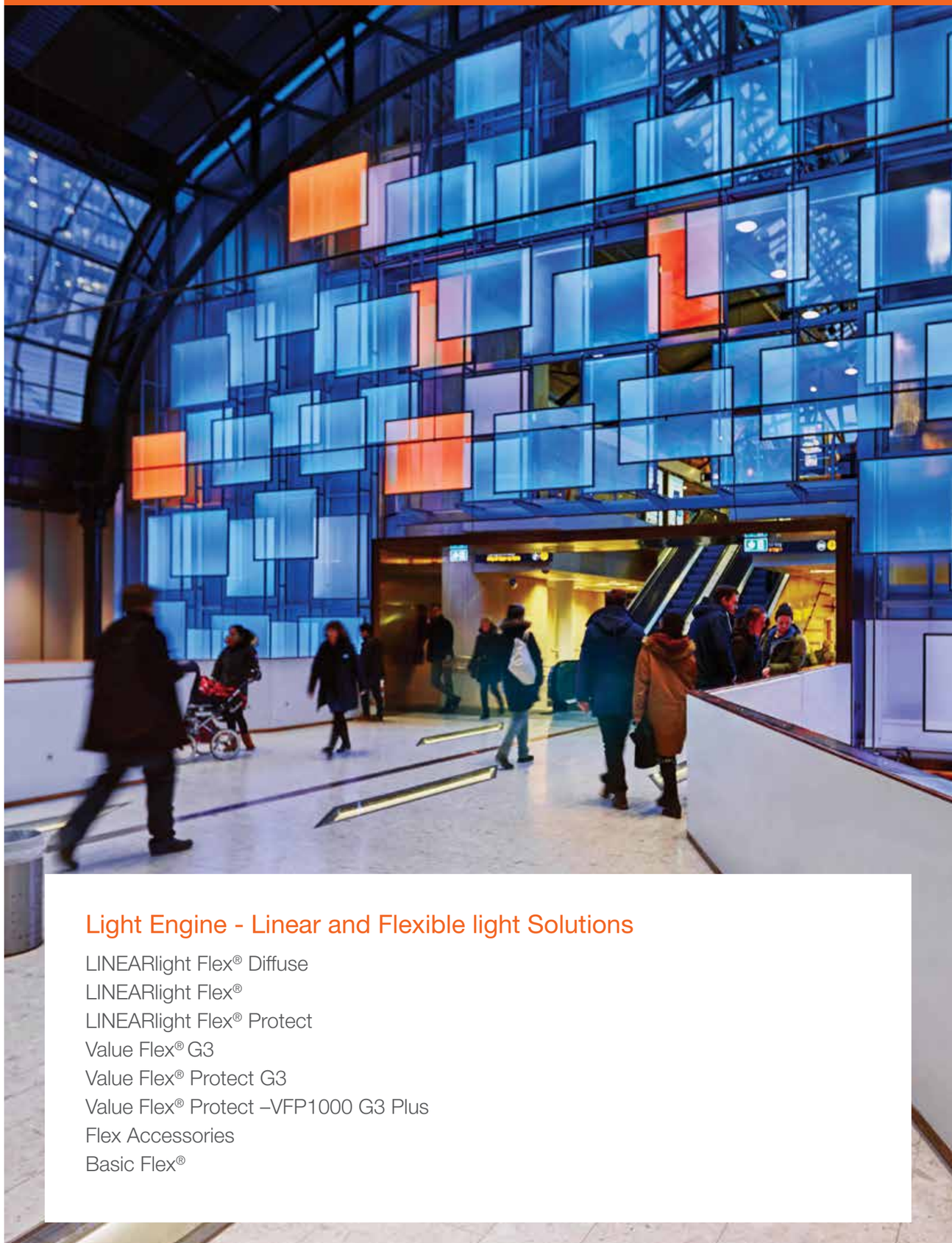



### Technical Features

- Color consistency < 3 SDCM
- TM30 compliant, Rg 100, Rf 90
- Max. current > 2 x nominal current
- Luminous efficacy up to 160lm/W



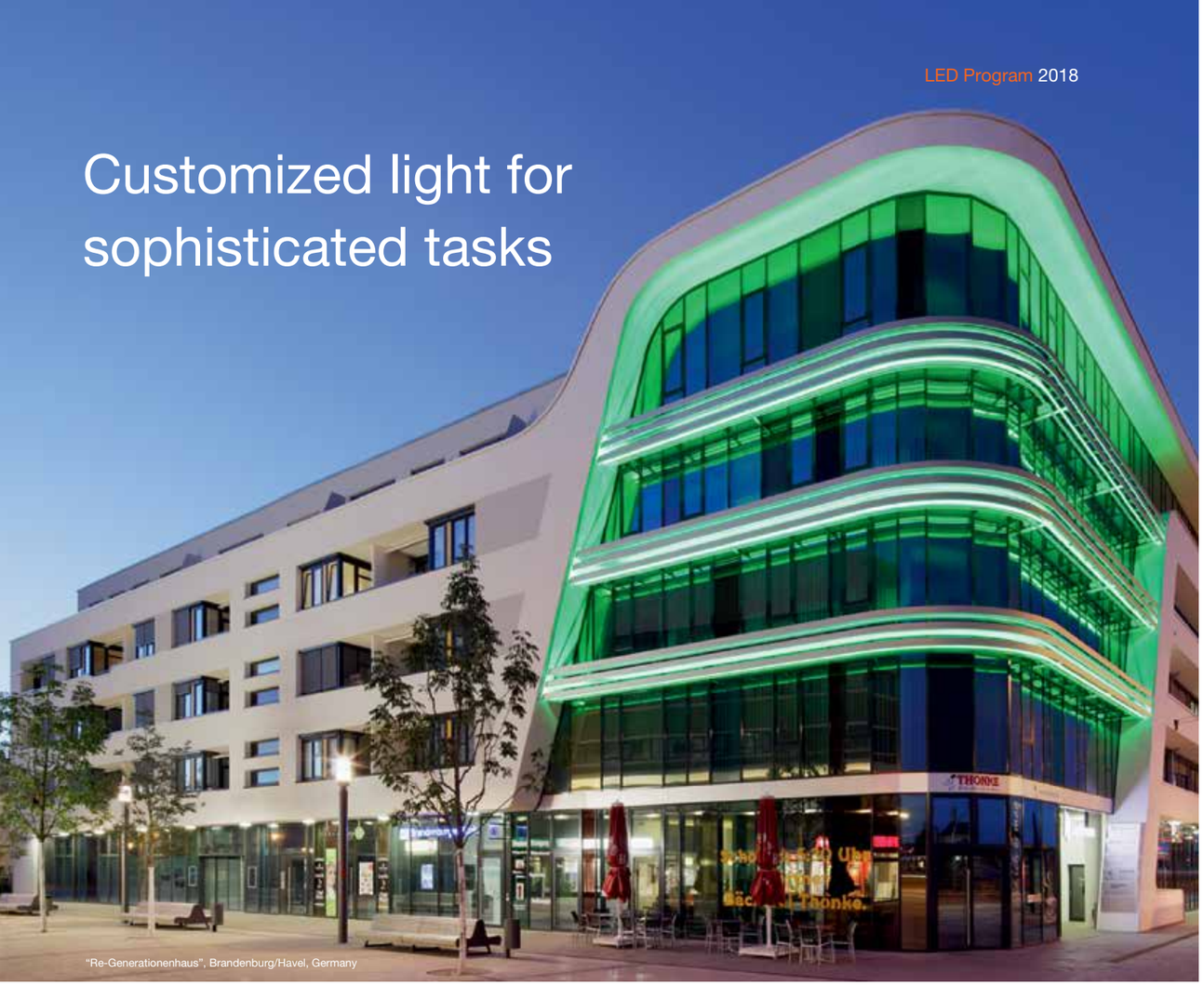




## Light Engine - Linear and Flexible light Solutions

LINEARlight Flex® Diffuse
LINEARlight Flex®
LINEARlight Flex® Protect
Value Flex® G3
Value Flex® Protect G3
Value Flex® Protect –VFP1000 G3 Plus
Flex Accessories
Basic Flex®

# Customized light for sophisticated tasks



"Re-Generationenhaus", Brandenburg/Havel, Germany



### LINEARlight Flex® Diffuse

- Diffused light lines without visible spots
- IP67 protection with high-performance silicone
- Outdoor use possible: UV-resistant and salt & mist proof
- Long operational length per single power feed possible (up to 6 m)
- Increased reliability due to single piece reel-to-reel technology

### LINEARlight Flex®

- Luminous flux of up to 3850 lm/m

### LINEARlight Flex® Protect

- Minimalistic white design with hidden electronics
- IP67 protection rating high-performance silicone for extremely long lifespan and bendability
- Highly UV-resistant
- Salt and mist proof
- Simple contacting due to pre-assembled connector
- Luminous flux of up to 3000 lm/m

### VALUE Flex® for private and semi-professional applications

- Simple contacting due to pre-assembled wires
- Many models with IP66 protection rating
- Fine White Binning < 4 SDCM
- Lifespan of up to 35000 h (L70B50)

* For conditions and detailed information, see www.osram.com/guarantee.


LINEARlight Flex® Diffuse


LINEARlight Flex®


LINEARlight Flex® Protect


VALUE Flex®

Easy installation using Flexessories®



Together with OSRAM LED drivers, flexible LED modules from OSRAM make a perfect system match.

LINEARlight LED modules are the best choice when it comes to economic and design-oriented solutions for a broad range of possible lighting requirements and interior designs. To name just a few potential application areas: Shops can present their goods in the right light with cabinet and shelf lighting. Offices can find options for orientation lighting in corridors or general illumination in conference rooms. Hotel and hospitality businesses can illuminate corridors and conference zones, create the right atmosphere in ballrooms, provide soft indirect cove lighting in the guest rooms or simply shape a lasting colorful guest experience in restaurant and bar areas. LINEARlight LED modules can even be used in outdoor areas: Our outdoor modules accentuate façades with elegant lighting effects. Using LINEARlight Flex® LED modules, homogeneous and flexible lines of light are easily integrated into architecture, furniture or any other object.


SGL Carbon, Wiesbaden, Germany



# Linear Light Flex®

## Linear Light Flex® - Diffuse (IP67)

| Product | EAN | K | W METER | lm METER | lm/W | METER | W | l [mm] | l min. [mm] | h [mm] | w [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Diffuse Top bending (LFD400T, LFD400MT)** | | | | | | | | | | | |
| LFD400T-G1-827-06 | 4052899953512 | 2700 | 7.2 | 490 | 68 | 140 | 43.2 | 6000 | 50 | - | 14.1 |
| LFD400T-G1-830-06 | 4052899953529 | 3000 | 7.2 | 490 | 68 | 140 | 43.2 | 6000 | 50 | - | 14.1 |
| LFD400T-G1-840-06 | 4052899953536 | 4000 | 7.2 | 480 | 67 | 140 | 43.2 | 6000 | 50 | - | 14.1 |
| LFD400T-G1-865-06 | 4052899953543 | 6500 | 7.2 | 460 | 64 | 140 | 43.2 | 6000 | 50 | - | 14.1 |
| LFD400MT-G1-OR-06 | 4052899953598 | 603-611nm (Orange) | 12 | 175 | 15 | 150 | 72 | 6000 | 40 | - | 14.1 |
| LFD400MT-G1-RE-06 | 4052899953574 | 612-626nm (Red) | 12 | 320 | 27 | 150 | 72 | 6000 | 40 | - | 14.1 |
| LFD400MT-G1-YE-06 | 4052899953581 | 586-594nm (Yellow) | 12 | 162 | 14 | 150 | 72 | 6000 | 40 | - | 14.1 |
| LFD400MT-G1-BL-06 | 4052899953550 | 457-467nm (Blue) | 12 | 60 | 5 | 150 | 72 | 6000 | 40 | - | 14.1 |
| LFD400MT-G1-GR-06 | 4052899953567 | 525-539nm (Green) | 12 | 285 | 24 | 150 | 72 | 6000 | 40 | - | 14.1 |
| LFD400MT-G1-GR-03 | 4052899450851 | 525-539nm (Green) | 12 | 285 | 48 | 150 | 36 | 3000 | 40 | - | 14.1 |
| **Diffuse Side bending (LFD400S, LFD400MS)** | | | | | | | | | | | |
| LFD400S-G1-827-06 | 4052899953611 | 2700 | 7.2 | 410 | 57 | 140 | 43.2 | 6000 | 50 | - | 14.1 |
| LFD400S-G1-830-06 | 4052899953628 | 3000 | 7.2 | 410 | 57 | 140 | 43.2 | 6000 | 50 | - | 14.1 |
| LFD400S-G1-840-06 | 4052899953635 | 4000 | 7.2 | 410 | 57 | 140 | 43.2 | 6000 | 50 | - | 14.1 |
| LFD400S-G1-865-06 | 4052899953642 | 6500 | 7.2 | 375 | 57 | 140 | 43.2 | 6000 | 50 | - | 14.1 |
| LFD400MS-G1-OR-06 | 4052899953697 | 603-611 nm (Orange) | 12 | 160 | 13 | 150 | 72 | 6000 | 40 | - | 14.1 |
| LFD400MS-G1-RE-06 | 4052899953673 | 612-626 nm (Red) | 12 | 240 | 20 | 150 | 72 | 6000 | 40 | - | 14.1 |
| LFD400MS-G1-YE-06 | 4052899953680 | 586-594 nm (Yellow) | 12 | 150 | 13 | 150 | 72 | 6000 | 40 | - | 14.1 |
| LFD400MS-G1-BL-06 | 4052899953659 | 457-467nm (Blue) | 12 | 55 | 5 | 150 | 72 | 6000 | 40 | - | 14.1 |
| LFD400MS-G1-GR-06 | 4052899953666 | 525-539nm (Green) | 12 | 260 | 22 | 150 | 72 | 6000 | 40 | - | 14.1 |
| LFD400MS-G1-GR-03 | 4052899450882 | 525-539nm (Green) | 12 | 260 | 43 | 150 | 36 | 3000 | 40 | - | 14.1 |

## Linear Light Flex® (IP20)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Power (LF4000)** | | | | | | | | | | | |
| LF4000-G3-827-03 | 4052899952867 | 2700 | 28.9 | 3844 | 133 | 70 | 86.7 | 3000 | 100 | 14.3 | 8 |
| LF4000-G3-830-03 | 4052899952874 | 3000 | 28.9 | 3844 | 133 | 70 | 86.7 | 3000 | 100 | 14.3 | 8 |
| LF4000-G3-840-03 | 4052899952881 | 4000 | 28.9 | 3844 | 133 | 70 | 86.7 | 3000 | 100 | 14.3 | 8 |
| LF4000-G3-850-03 | 4052899952898 | 5000 | 28.9 | 3844 | 133 | 70 | 86.7 | 3000 | 100 | 14.3 | 8 |
| LF4000-G3-865-03 | 4052899952904 | 6500 | 28.9 | 3844 | 133 | 70 | 86.7 | 3000 | 100 | 14.3 | 8 |
| **Power (LF3000)** | | | | | | | | | | | |
| LF3000-G3-820-03 | 4052899952911 | 2000 | 28.9 | 2514 | 87 | 70 | 86.7 | 3000 | 100 | 14.3 | 8 |
| LF3000-G3-824-03 | 4052899952928 | 2400 | 28.9 | 3006 | 104 | 70 | 86.7 | 3000 | 100 | 14.3 | 8 |
| LF3000-G3-827-03 | 4052899952935 | 2700 | 23.7 | 3010 | 127 | 70 | 71.1 | 3000 | 100 | 14.3 | 8 |
| LF3000-G3-830-03 | 4052899952942 | 3000 | 23.7 | 3010 | 127 | 70 | 71.1 | 3000 | 100 | 14.3 | 8 |
| LF3000-G3-840-03 | 4052899952959 | 4000 | 21.8 | 3008 | 138 | 70 | 65.4 | 3000 | 100 | 14.3 | 8 |
| LF3000-G3-850-03 | 4052899952966 | 5000 | 21.8 | 3008 | 138 | 70 | 65.4 | 3000 | 100 | 14.3 | 8 |
| LF3000-G3-865-03 | 4052899952973 | 6500 | 21.8 | 3008 | 138 | 70 | 65.4 | 3000 | 100 | 14.3 | 8 |
| LF3000-G3-927-03 | 4052899963948 | 2700 | 28.9 | 2688 | 93 | 70 | 86.7 | 3000 | 100 | 14.3 | 8 |
| LF3000-G3-930-03 | 4052899963955 | 3000 | 28.9 | 3006 | 104 | 70 | 86.7 | 3000 | 100 | 14.3 | 8 |
| LF3000-G3-940-03 | 4052899963962 | 4000 | 26.533 | 2998 | 113 | 70 | 79.6 | 3000 | 100 | 14.3 | 8 |





| Product | EAN | K | W METER | lm METER | lm/W | METER | W | l [mm] | l min. [mm] | h [mm] | w [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Power (LF2000)** | | | | | | | | | | | |
| LF2000-G3-820-04 | 4052899952980 | 2000 | 20.1 | 1852 | 92 | 70 | 81 | 4000 | 100 | 14.3 | 8 |
| LF2000-G3-824-04 | 4052899952997 | 2400 | 20.1 | 2254 | 112 | 70 | 81 | 4000 | 100 | 14.3 | 8 |
| LF2000-G3-827-04 | 4052899953000 | 2700 | 16.8 | 2255 | 134 | 70 | 67 | 4000 | 100 | 14.3 | 8 |
| LF2000-G3-830-04 | 4052899953017 | 3000 | 16.8 | 2255 | 134 | 70 | 67 | 4000 | 100 | 14.3 | 8 |
| LF2000-G3-840-04 | 4052899953024 | 4000 | 15.3 | 2253 | 147 | 70 | 61 | 4000 | 100 | 14.3 | 8 |
| LF2000-G3-850-04 | 4052899953031 | 5000 | 15.3 | 2253 | 147 | 70 | 61 | 4000 | 100 | 14.3 | 8 |
| LF2000-G3-865-04 | 4052899953048 | 6500 | 15.3 | 2253 | 147 | 70 | 61 | 4000 | 100 | 14.3 | 8 |
| LF2000-G3-927-04 | 4052899963993 | 2700 | 20.1 | 2033 | 101 | 70 | 81 | 4000 | 100 | 14.3 | 8 |
| LF2000-G3-930-04 | 4052899964006 | 3000 | 20.1 | 2254 | 112 | 70 | 81 | 4000 | 100 | 14.3 | 8 |
| LF2000-G3-940-04 | 4052899964013 | 4000 | 18.4 | 2257 | 123 | 70 | 73 | 4000 | 100 | 14.3 | 8 |
| **Power (LF1200)** | | | | | | | | | | | |
| LF1200-G3-820-09 | 4052899953055 | 2000 | 10.6 | 1000 | 94 | 70 | 95.7 | 9000 | 100 | 14.3 | 8 |
| LF1200-G3-824-09 | 4052899953062 | 2400 | 10.6 | 1202 | 113 | 70 | 95.7 | 9000 | 100 | 14.3 | 8 |
| LF1200-G3-827-09 | 4052899953079 | 2700 | 8.9 | 1202 | 135 | 70 | 80.1 | 9000 | 100 | 14.3 | 8 |
| LF1200-G3-830-09 | 4052899953086 | 3000 | 8.9 | 1202 | 135 | 70 | 80.1 | 9000 | 100 | 14.3 | 8 |
| LF1200-G3-840-09 | 4052899953093 | 4000 | 8.1 | 1196 | 147 | 70 | 73.2 | 9000 | 100 | 14.3 | 8 |
| LF1200-G3-850-09 | 4052899953291 | 5000 | 8.1 | 1196 | 147 | 70 | 73.2 | 9000 | 100 | 14.3 | 8 |
| LF1200-G3-865-09 | 4052899953314 | 6500 | 8.1 | 1196 | 147 | 70 | 73.2 | 9000 | 100 | 14.3 | 8 |
| LF1200-G3-927-09 | 4052899953321 | 2700 | 10.6 | 1095 | 103 | 70 | 95.7 | 9000 | 100 | 14.3 | 8 |
| LF1200-G3-930-09 | 4052899953338 | 3000 | 10.6 | 1202 | 113 | 70 | 95.7 | 9000 | 100 | 14.3 | 8 |
| LF1200-G3-940-09 | 4052899953345 | 4000 | 10.0 | 1195 | 120 | 70 | 89.6 | 9000 | 100 | 14.3 | 8 |
| **Shortpitch (LF800S)** | | | | | | | | | | | |
| LF800S-G3-824-10 | 4052899953109 | 2400 | 8.9 | 800 | 90 | 120 | 89 | 10000 | 50 | 8 | 8 |
| LF800S-G3-827-10 | 4052899953116 | 2700 | 8.9 | 800 | 90 | 120 | 89 | 10000 | 50 | 8 | 8 |
| LF800S-G3-830-10 | 4052899953123 | 3000 | 8.3 | 800 | 96 | 120 | 83 | 10000 | 50 | 8 | 8 |
| LF800S-G3-840-10 | 4052899953130 | 4000 | 8.6 | 850 | 99 | 120 | 86 | 10000 | 50 | 8 | 8 |
| LF800S-G3-850-10 | 4052899953147 | 5000 | 8.6 | 850 | 99 | 120 | 86 | 10000 | 50 | 8 | 8 |
| LF800S-G3-865-10 | 4052899953154 | 6500 | 8.6 | 850 | 99 | 120 | 86 | 10000 | 50 | 8 | 8 |
| **Advanced (LF06A)** | | | | | | | | | | | |
| LF06A-W3F-824 | 4052899942783 | 2400 | 4.5 | 380 | 84 | 60 | 45 | 10000 | 100 | 16.7 | 8 |
| LF06A-W3F-827 | 4008321973986 | 2700 | 4.8 | 390 | 81 | 60 | 48 | 10000 | 100 | 16.7 | 8 |
| LF06A-W3F-830 | 4008321973993 | 3000 | 4.8 | 390 | 81 | 60 | 48 | 10000 | 100 | 16.7 | 8 |
| LF06A-W3F-840 | 4008321974006 | 4000 | 4.8 | 425 | 88 | 60 | 48 | 10000 | 100 | 16.7 | 8 |
| LF06A-W3F-850 | 4008321974013 | 5000 | 4.8 | 425 | 88 | 60 | 48 | 10000 | 100 | 16.7 | 8 |
| LF06A-W3F-865 | 4008321974020 | 6500 | 4.8 | 425 | 88 | 60 | 48 | 10000 | 100 | 16.7 | 8 |
| **Advanced (LF05A2)** | | | | | | | | | | | |
| LF05A2-B3 | 4052899924123 | 467.00 | 7.2 | 85[1]/ 80[2] | 88 | 50 | 72 | 10000 | 100 | 20 | 8 |
| LF05A2-R3 | 4052899924086 | 625.00 | 8.3 | 230[1]/ 120[2] | 88 | 50 | 83 | 10000 | 100 | 20 | 8 |
| LF05A2-T3 | 4052899924116 | 525 | 4.9 | 200[1]/ 180[2] | 88 | 50 | 49 | 10000 | 100 | 20 | 8 |
| LF05A2-Y3 | 4052899924109 | 587 | 8.3 | 210[1]/ 110[2] | 88 | 50 | 83 | 10000 | 100 | 20 | 8 |
| LF05A2-O3 | 4052899924093 | 602 | 8.3 | 230[1]/ 130[2] | 88 | 50 | 83 | 10000 | 100 | 20 | 8 |

| Product | EAN | K | W METER | lm METER | lm/W | {((•)) METER | W | l [mm] | l min. [mm] | l1 [mm] | w [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Eco (LF200, LF200M)** | | | | | | | | | | | |
| LF200-G3-827-10 | 4052899953222 | 2700 | 2 | 200 | 110 | 60 | 18 | 10000 | 100 | 17 | 8 |
| LF200-G3-830-10 | 4052899953239 | 3000 | 1.8 | 200 | 110 | 60 | 18.24 | 10000 | 100 | 16.7 | 8 |
| LF200-G3-840-10 | 4052899953246 | 4000 | 2 | 200 | 121 | 60 | 17 | 10000 | 100 | 17 | 8 |
| LF200-G3-865-10 | 4052899953253 | 6500 | 1.7 | 200 | 121 | 60 | 16.6 | 10000 | 100 | 16.7 | 8 |
| LF200M-G3-BL-06 | 4052899500082 | 467 nm | 4 | 48 | 12 | 33 | 25 | 6000 | 150 | 30 | 8 |
| LF200M-G3-RE-06 | 4052899500365 | 625 nm | 6.0 | 36 | 140 | 33 | 36 | 6000 | 150 | 30 | 8 |
| LF200M-G3-GR-06 | 4052899500389 | 522 nm | 4 | 25 | 157 | 33 | 25 | 6000 | 150 | 30 | 8 |
| LF200M-G3-YE-06 | 4052899500402 | 587 nm | 6.0 | 36 | 140 | 33 | 36 | 6000 | 150 | 30 | 8 |
| **Colormix (LF05CA2, LF05CE)** | | | | | | | | | | | |
| LF200C-G3-RGB-06 | 4052899501997 | 622/ 534/ 468 | 6.5 | 209 | 32 | 33 | 39 | 6000 | 150 | 30 | 8 |
| LF700RGBW-G1-822-06 | 4052899525221 | 2200K/ 622/ 534/ 468 | 4.2/ 6.5 | 360/ 297 | 85.7 | 80 | 64.2 | 6000 | 150 | 25 | 10 |
| LF700RGBW-G1-827-06 | 4052899525269 | 2700K/ 622/ 534/ 468 | 3.3/ 6.5 | 400/ 297 | 121.2 | 80 | 58.8 | 6000 | 150 | 25 | 10 |
| LF700RGBW-G1-830-06 | 4052899525306 | 3000K/ 622/ 534/ 468 | 3.3/ 6.5 | 400/ 297 | 121.2 | 80 | 58.8 | 6000 | 150 | 25 | 10 |
| LF700RGBW-G1-840-06 | 4052899540668 | 4000K/ 622/ 534/ 468 | 3.1/ 6.5 | 400/ 297 | 129.0 | 80 | 57.6 | 6000 | 150 | 25 | 10 |
| LF700RGBW-G1-865-06 | 4052899525344 | 6500K/ 622/ 534/ 468 | 3.1/ 6.5 | 400/ 297 | 129.0 | 80 | 57.6 | 6000 | 150 | 25 | 10 |
| LF1300RGBW-G1-822-04 | 4052899525061 | 2200K/ 622/ 534/ 468 | 9.4/ 11 | 720/ 493 | 76.6 | 120 | 79.6 | 3900 | 100 | 17 | 10 |
| LF1300RGBW-G1-827-04 | 4052899525122 | 2700K/ 622/ 534/ 468 | 6.9/ 11 | 800/ 493 | 115.9 | 120 | 69.8 | 3900 | 100 | 16.7 | 10 |
| LF1300RGBW-G1-830-04 | 4052899525146 | 3000K/ 622/ 534/ 468 | 6.9/ 11 | 800/ 493 | 115.9 | 120 | 69.8 | 3900 | 100 | 17 | 10 |
| LF1300RGBW-G1-840-04 | 4052899540620 | 4000K/ 622/ 534/ 468 | 6.4/ 11 | 800/ 493 | 125.0 | 120 | 67.9 | 3900 | 100 | 16.7 | 10 |
| LF1300RGBW-G1-865-04 | 4052899525184 | 6500K/ 622/ 534/ 468 | 6.4/ 11 | 800/ 493 | 125.0 | 120 | 67.9 | 3900 | 100 | 17 | 10 |
| LF05CA2-RGB3 | 4008321851536 | 625/525/467 | 18.0 | 470 | 61 | 50 | 72 | 4000 | 100 | 20 | 8 |

## Linear Light Flex® - Protect (IP67)

| Product | EAN | K | W METER | lm METER | lm/W | {((•)) METER | W | l [mm] | l min. [mm] | l1 [mm] | w [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Protect Power 3000** | | | | | | | | | | | |
| LFP3000-G3-824-03 | 4052899481299 | 2400 | 28.9 | 2800 | 97 | 70 | 87 | 3000 | 100 | 14 | 11 |
| LFP3000-G3-827-03 | 4052899481312 | 2700 | 28.9 | 3000 | 104 | 70 | 87 | 3000 | 100 | 14 | 11 |
| LFP3000-G3-830-03 | 4052899481336 | 3000 | 28.9 | 3000 | 104 | 70 | 87 | 3000 | 100 | 14 | 11 |
| LFP3000-G3-840-03 | 4052899481350 | 4000 | 23.7 | 3000 | 127 | 70 | 71 | 3000 | 100 | 14 | 11 |
| LFP3000-G3-860-03 | 4052899481374 | 6000 | 21.8 | 2800 | 128 | 70 | 65 | 3000 | 100 | 14 | 11 |
| LFP3000-G3-930-03 | 4052899481398 | 3300 | 28.9 | 2850 | 99 | 70 | 87 | 3000 | 100 | 14 | 11 |
| LFP3000-G3-940-03 | 4052899481411 | 3800 | 28.9 | 3000 | 104 | 70 | 87 | 3000 | 100 | 14 | 11 |
| LFP3000-G3-960-03 | 4052899481435 | 5800 | 26.5 | 3000 | 113 | 70 | 80 | 3000 | 100 | 14 | 11 |
| **Protect Power 2000** | | | | | | | | | | | |
| LFP2000-G3-824-04 | 4052899481138 | 2400 | 17.9 | 1800 | 101 | 70 | 81 | 4500 | 100 | 14 | 11 |
| LFP2000-G3-827-04 | 4052899481152 | 2700 | 17.9 | 1900 | 106 | 70 | 81 | 4500 | 100 | 14 | 11 |
| LFP2000-G3-830-04 | 4052899481176 | 3000 | 17.9 | 1900 | 106 | 70 | 81 | 4500 | 100 | 14 | 11 |
| LFP2000-G3-840-04 | 4052899481190 | 4000 | 15.0 | 1900 | 127 | 70 | 68 | 4500 | 100 | 14 | 11 |
| LFP2000-G3-860-04 | 4052899481213 | 6000 | 13.6 | 1800 | 132 | 70 | 61 | 4500 | 100 | 14 | 11 |
| LFP2000-G3-930-04 | 4052899481237 | 3300 | 17.9 | 1800 | 101 | 70 | 81 | 4500 | 100 | 14 | 11 |
| LFP2000-G3-940-04 | 4052899481251 | 3800 | 17.9 | 1800 | 106 | 70 | 81 | 4500 | 100 | 14 | 11 |
| LFP2000-G3-960-04 | 4052899481275 | 5800 | 16.3 | 1800 | 117 | 70 | 73 | 4500 | 100 | 14 | 11 |





| Product | EAN | K | W METER | lm METER | lm/W | {((•)) METER | W | l [mm] | l min. [mm] | l1 [mm] | w [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Protect Power 1200** | | | | | | | | | | | |
| LFP1200-G3-824-09 | 4052899481640 | 2400 | 10.6 | 1100 | 104 | 70 | 95 | 9000 | 100 | 14 | 11 |
| LFP1200-G3-827-09 | 4052899481626 | 2700 | 10.6 | 1150 | 108 | 70 | 95 | 9000 | 100 | 14 | 11 |
| LFP1200-G3-830-09 | 4052899481664 | 3000 | 10.6 | 1200 | 113 | 70 | 95 | 9000 | 100 | 14 | 11 |
| LFP1200-G3-840-09 | 4052899481688 | 4000 | 8.9 | 1200 | 135 | 70 | 80 | 9000 | 100 | 14 | 11 |
| LFP1200-G3-860-09 | 4052899481701 | 6000 | 8.1 | 1100 | 135 | 70 | 73 | 9000 | 100 | 14 | 11 |
| LFP1200-G3-930-09 | 4052899481725 | 3300 | 10.6 | 1100 | 104 | 70 | 95 | 9000 | 100 | 14 | 11 |
| LFP1200-G3-940-09 | 4052899481749 | 3800 | 10.6 | 1200 | 113 | 70 | 95 | 9000 | 100 | 14 | 11 |
| LFP1200-G3-960-09 | 4052899481763 | 5800 | 10.0 | 1200 | 120 | 70 | 90 | 9000 | 100 | 14 | 11 |
| **PROTECT POWER 800** | | | | | | | | | | | |
| LFP800-G3-824-09 | 4052899481565 | 2400 | 7.6 | 800 | 106 | 70 | 68 | 9000 | 100 | 14 | 11 |
| LFP800-G3-827-09 | 4052899481589 | 2700 | 7.1 | 800 | 113 | 70 | 64 | 9000 | 100 | 14 | 11 |
| **Protect Shortpitch** | | | | | | | | | | | |
| LFP800S-G3-830-10 | 4052899953352 | 3000 | 8.3 | 760 | 92 | 120 | 83 | 10000 | 50 | 8 | 11 |
| LFP800S-G3-840-10 | 4052899953369 | 4000 | 7.7 | 760 | 99 | 120 | 77 | 10000 | 50 | 8 | 11 |
| LFP800S-G3-856-10 | 4052899953376 | 5600 | 8.3 | 810 | 98 | 120 | 83 | 10000 | 50 | 8 | 11 |
| LFP800S-G3-880-10 | 4052899953383 | 7600 | 8.3 | 810 | 98 | 120 | 83 | 10000 | 50 | 8 | 11 |
| **Protect Eco** | | | | | | | | | | | |
| LF06E-830-P | 4052899475724 | 3000 | 2.0 | 200 | 100 | 60 | 20 | 10000 | 100 | 16.7 | 11 |
| LF06E-840-P | 4052899475809 | 4000 | 2.0 | 200 | 100 | 60 | 20 | 10000 | 100 | 16.7 | 11 |
| LF06E-880-P | 4052899475847 | 8000 | 2.0 | 180 | 95 | 60 | 20 | 10000 | 100 | 16.7 | 11 |
| LF05E-B2-P | 4008321616913 | 467 | 4.1 | 503/404 | 31 | 33 | 24.5 | 6000 | 150 | 30 | 11 |
| LF05E-R1-P | 4008321616937 | 625 | 6.0 | 1403/1804 | 31 | 33 | 36 | 6000 | 150 | 30 | 11 |
| LF05E-T2-P | 4008321616951 | 522 | 4.1 | 1503/1204 | 31 | 33 | 24.5 | 6000 | 150 | 30 | 11 |
| LF05E-Y1-P | 4008321616975 | 587 | 6.0 | 1403/754 | 31 | 33 | 36 | 6000 | 150 | 30 | 11 |
| **Protect Advanced (LF06A-P)** | | | | | | | | | | | |
| LF06A-W3F-830-P | 4008321789983 | 3000K | 5.0 | 350 | 70 | 60 | 50 | 10000 | 100 | 16.7 | 11 |
| LF06A-W3F-840-P | 4008321790125 | 4000K | 5.0 | 390 | 78 | 60 | 50 | 10000 | 100 | 16.7 | 11 |
| LF06A-W3F-870-P | 4008321790149 | 7000K | 5.0 | 390 | 78 | 60 | 50 | 10000 | 100 | 16.7 | 11 |
| LF05A-B3-P | 4008321617804 | 467 | 5.0 | 851/ 802 | 78 | 50 | 72 | 9900 | 100 | 20 | 11 |
| **Protect Colormix (LF05CA-P, LF05CE-P)** | | | | | | | | | | | |
| LFP200C-G3-RGB-06 | 4052899501973 | 625 / 525 / 465 | 6.5 | 180 | 28 | 33 | 39 | 6000 | 150 | 30 | 11 |
| LF05CA-RGB3-P | 4008321977205 | 625/525/467 | 18.0 | 435 | 31 | 50 | 72 | 4000 | 100 | 20 | 11 |

# Value Flex® G3



## Benefits

- Energy saving low-power LED flexible strip
- Easy installation with Track
- Multi-Cut-able with SLIMCONNECT system
- Available in warm white and cold white
- 120° viewing angle per module
- Colour consistency < 4 SDCM, CRI 80
- Up to 35000 hrs lifetime @ Tc max
- Dimmable

## Applications

- Hospitality Lighting
- Cabinet Lighting
- Signage
- Architecture lighting
- Wall integration

### Effective solutions with Value Flex® G3 strips

Create the desired lighting atmosphere, set decorative accents, or highlight products: in the blink of an eye with the new generation of the OSRAM VALUE Flex® G3 LED strips. Thanks to improved features, you can design homogeneous lighting with just the right amount of light in a wide range of color temperatures.

VALUE Flex® G3 LED strips bring homogeneous light into narrowest coves and perfectly illuminate every space with a large selection of various light colors.

The product family offers lumen packages from 300 to 2,400 lm/m with an efficacy of up to 140 lm/W. Thanks to VALUE Flex® G3, OSRAM provides even more options for various applications: just the right solution for comfortable ambient lighting as well as brightly illuminated rooms. The new ShortPitch versions are available as protected (IP66) and non-protected LED strips (IP20): simply ideal to create homogeneous lighting solutions.

Combined with ON/OFF ELEMENT LED drivers, dimmable OTi DALI LED drivers, protected OPTOTRONIC® devices and our extended range of connectors, tracks and covers, you can design the ideal lighting solution for every need.







# Value Flex® G3

## Technical Information

### VF600-G3

| Product | EAN | K | V | W/METER | lm/METER | lm/W | METER | W | l [mm] | l min. [mm] | h [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VF600-G3-827-10 | AM166910055 | 2700 | 24 | 4.6 | 600 | 130 | 70 | 46 | 10000 | 100 | 14.28 |
| VF600-G3-830-10 | AM118990055 | 3000 | 24 | 4.6 | 650 | 141 | 70 | 46 | 10000 | 100 | 14.28 |
| VF600-G3-840-10 | AM166920055 | 4000 | 24 | 4.6 | 700 | 152 | 70 | 46 | 10000 | 100 | 14.28 |
| VF600-G3-865-10 | AM166930055 | 6500 | 24 | 4.6 | 700 | 152 | 70 | 46 | 10000 | 100 | 14.28 |
| **VF1000-G3** | | | | | | | | | | | |
| VF1000-G3-824-10 | 4052899518476 | 2400 | 24 | 8 | 1000 | 130 | 70 | 77 | 10000 | 100 | 14 |
| VF1000-G3-827-10 | 4052899518490 | 2700 | 24 | 8 | 1000 | 130 | 70 | 77 | 10000 | 100 | 14 |
| VF1000-G3-830-10 | 4052899518513 | 3000 | 24 | 8 | 1000 | 130 | 70 | 77 | 10000 | 100 | 14 |
| VF1000-G3-840-10 | 4052899518537 | 4000 | 24 | 8 | 1000 | 130 | 70 | 77 | 10000 | 100 | 14 |
| VF1000-G3-865-10 | 4052899518551 | 6500 | 24 | 8 | 1000 | 130 | 70 | 77 | 10000 | 100 | 14 |
| **VF2000-G3** | | | | | | | | | | | |
| VF2000-G3-827-05 | 4052899518797 | 2700 | 24 | 14 | 2000 | 139 | 70 | 72 | 5000 | 100 | 14 |
| VF2000-G3-830-05 | 4052899518810 | 3000 | 24 | 14 | 2000 | 139 | 70 | 72 | 5000 | 100 | 14 |
| VF2000-G3-840-05 | 4052899518834 | 4000 | 24 | 14 | 2000 | 139 | 70 | 72 | 5000 | 100 | 14 |
| VF2000-G3-865-05 | 4052899518858 | 6500 | 24 | 14 | 2000 | 139 | 70 | 72 | 5000 | 100 | 14 |
| **VF1200S-G3** | | | | | | | | | | | |
| VF1200S-G3-824-06 | 4052899518575 | 2400 | 24 | 10 | 1200 | 117 | 117 | 62 | 6000 | 60 | 9 |
| VF1200S-G3-827-06 | 4052899518599 | 2700 | 24 | 10 | 1200 | 117 | 117 | 62 | 6000 | 60 | 9 |
| VF1200S-G3-830-06 | 4052899518612 | 3000 | 24 | 10 | 1200 | 117 | 117 | 62 | 6000 | 60 | 9 |
| VF1200S-G3-840-06 | 4052899518636 | 4000 | 24 | 10 | 1200 | 117 | 117 | 62 | 6000 | 60 | 9 |
| VF1200S-G3-865-06 | 4052899518650 | 6500 | 24 | 10 | 1200 | 117 | 117 | 62 | 6000 | 60 | 9 |
| **VF2400S-G3** | | | | | | | | | | | |
| VF2400S-G3-827-03 | 4052899518698 | 2700 | 24 | 20 | 2400 | 120 | 117 | 60 | 3000 | 60 | 9 |
| VF2400S-G3-830-03 | 4052899518711 | 3000 | 24 | 20 | 2400 | 120 | 117 | 60 | 3000 | 60 | 9 |
| VF2400S-G3-840-03 | 4052899518735 | 4000 | 24 | 20 | 2400 | 120 | 117 | 60 | 3000 | 60 | 9 |
| VF2400S-G3-865-03 | 4052899518759 | 6500 | 24 | 20 | 2400 | 120 | 117 | 60 | 3000 | 60 | 9 |

# Value Flex® Protect G3

## Technical Information

### VFP 1000-G3 (IP66)

| Product | EAN | K | V | W METER | lm METER | lm/W | METER | W | l [mm] | l min. [mm] | l1 [mm] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VFP1000-G3-824-10 | 4052899518872 | 2400 | 24 | 8 | 1000 | 130 | 70 | 77 | 10000 | 100 | 14 |
| VFP1000-G3-827-10 | 4052899518896 | 2700 | 24 | 8 | 1000 | 130 | 70 | 77 | 10000 | 100 | 14 |
| VFP1000-G3-830-10 | 4052899518919 | 3000 | 24 | 8 | 1000 | 130 | 70 | 77 | 10000 | 100 | 14 |
| VFP1000-G3-840-10 | 4052899518933 | 4000 | 24 | 8 | 1000 | 130 | 70 | 77 | 10000 | 100 | 14 |
| VFP1000-G3-865-10 | 4052899518957 | 6500 | 24 | 8 | 1000 | 130 | 70 | 77 | 10000 | 100 | 14 |

### VFP 2000-G3 (IP66)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VFP2000-G3-827-05 | 4052899519190 | 2700 | 24 | 14 | 2000 | 139 | 70 | 72 | 5000 | 100 | 14 |
| VFP2000-G3-830-05 | 4052899519213 | 3000 | 24 | 14 | 2000 | 139 | 70 | 72 | 5000 | 100 | 14 |
| VFP2000-G3-840-05 | 4052899519237 | 4000 | 24 | 14 | 2000 | 139 | 70 | 72 | 5000 | 100 | 14 |
| VFP2000-G3-865-05 | 4052899519251 | 6500 | 24 | 14 | 2000 | 139 | 70 | 72 | 5000 | 100 | 14 |

### VFP 1200S-G3 (IP66)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VFP1200S-G3-824-06 | 4052899518971 | 2400 | 24 | 10 | 1200 | 117 | 117 | 62 | 6000 | 60 | 9 |
| VFP1200S-G3-827-06 | 4052899518995 | 2700 | 24 | 10 | 1200 | 117 | 117 | 62 | 6000 | 60 | 9 |
| VFP1200S-G3-830-06 | 4052899519015 | 3000 | 24 | 10 | 1200 | 117 | 117 | 62 | 6000 | 60 | 9 |
| VFP1200S-G3-840-06 | 4052899519039 | 4000 | 24 | 10 | 1200 | 117 | 117 | 62 | 6000 | 60 | 9 |
| VFP1200S-G3-865-06 | 4052899519053 | 6500 | 24 | 10 | 1200 | 117 | 117 | 62 | 6000 | 60 | 9 |

### VFP 2400S-G3 (IP66)

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VFP2400S-G3-827-03 | 4052899519091 | 2700 | 24 | 20 | 2400 | 120 | 117 | 60 | 3000 | 60 | 9 |
| VFP2400S-G3-830-03 | 4052899519114 | 3000 | 24 | 20 | 2400 | 120 | 117 | 60 | 3000 | 60 | 9 |
| VFP2400S-G3-840-03 | 4052899519138 | 4000 | 24 | 20 | 2400 | 120 | 117 | 60 | 3000 | 60 | 9 |
| VFP2400S-G3-865-03 | 4052899519152 | 6500 | 24 | 20 | 2400 | 120 | 117 | 60 | 3000 | 60 | 9 |





# Value Flex® Protect –VFP1000 G3 Plus

## Technical Information



### Benefits

- Energy saving LED flexible strip
- Easy installation with various mounting methods
- IP65* Protection, multi cut-able with IP65 connectors
- Available in warm white and cold white
- 110° viewing angle per module
- Dimmable

  * IP68 achievable as customized service w/o any on-site rework

### Applications

- Hospitality Lighting
- Cabinet Lighting
- Signage
- Architecture lighting
- Wall integration

### Technical Operating Data

| Product | EAN 10* | K | V | lm | TOTAL | W | l [mm] | l min. [mm] | l1 [mm] |
|---|---|---|---|---|---|---|---|---|---|
| VFP1000-G3P-822-10 | 4052899502376 | 2200 | 24 | 8131 | 666 | 82 | 10000 | 30 | 30 |
| VFP1000-G3P-827-10 | 4052899502390 | 2700 | 24 | 8537 | 666 | 82 | 10000 | 30 | 30 |
| VFP1000-G3P-830-10 | 4052899502413 | 3000 | 24 | 8537 | 666 | 82 | 10000 | 30 | 30 |
| VFP1000-G3P-835-10 | 4052899502444 | 3500 | 24 | 8537 | 666 | 82 | 10000 | 30 | 30 |
| VFP1000-G3P-840-10 | 4052899502468 | 4000 | 24 | 9431 | 666 | 82 | 10000 | 30 | 30 |
| VFP1000-G3P-850-10 | 4052899516557 | 5000 | 24 | 9431 | 666 | 82 | 10000 | 30 | 30 |
| VFP1000-G3P-865-10 | 4052899502482 | 6500 | 24 | 9431 | 666 | 82 | 10000 | 30 | 30 |

*) Exceeding maximum ratings for operating and storage temperature will reduce expected life time or destroy the LED Modules.
Exceeding maximum ratings for operating voltage will cause hazardous overload and will likely destroy the LED Modules. The temperature of the LED modules must be measured at the Tc-point according to EN60598-1 in a thermally constant state with a temperature sensor or a temperature sensitive label.

### Technical Features

- Size of printed circuit board (L x W x H): 10020mm x 12 mm x 5.5 mm
- Size of smallest unit : 30mm
- The LED pitch is 30mm
- Connection possible at the reel end or at the cut points
- 24V Constant Voltage LED modules
- Colour consistency < 4 SDCM
- CRI > 75 for 2200K; CRI > 80 for 2700K, 3000K, 3500K, 4000K, 5000K and 6500K.
- Linear LED strip on printed circuit board with kinds of accessories for easy mounting
- Up to 35,000 hrs lifetime (L70/B50@ Tc = 45°C).

# Flex Accessories

■ = Combination options between Flex LED modules and accessories
□ = Additionally required accessories, see datasheets for detailed information
◑ = Combination possible only without cover
● = Full compatibility, tested in recessed conditions including cover at $T_{amb}$ = 25 °C
○ = Compatibility in free-air conditions including cover at $T_{amb}$ = 25 °C

| | | | LINEARlight | | | | | | | | | | | | VALUE Flex | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Unprotected | | | | | | | | Protect | | | | Unprotected | | Protect | | |
| Ordering code | Short description | Product number (EAN) | LF06A, LF05A2 | LF80S, LF1200 | LF05E2, LF05E | LF05CA2 | LF05CE | LF1200-TW | LF2000-TW | LF3000-TW | LF4000-TW | LF2000 *, LF2000SW, LF1200MW, | LF1200MWR, LF2000VW | LF3000 *, LF3000SW, LF2000MW, | LF2000MWR, LF2000VW | LF06P2-P, LF06A-P, LFP800S | LF05A-P | LF05E-P, LF06E-P | LF05CA-P, LF05CE-P | VF1000, VF1200S, VF600 G3, BF350 | VF2000 | VF2400S | VFP1000, VFP1200S, BFP300 | VFP2000 | VFP2400S |
| **SLIM TRACK System** | | | | | | | | | | | | | | | | | | | | | | | | |
| LF-LTS-2100 | Slim track | 4008321978981 | ● | ● | ● | ● | ● | ● | ○ | | | ○ | | | | ● | ● | ● | ● | ● | | | ● | |
| LF-LTS-MB | Mounting bracket | 4008321979025 | □ | □ | □ | □ | □ | □ | | | | □ | | | | □ | □ | □ | □ | □ | | | □ | |
| LF-LTS | Cover diffuse | 4008321979001 | ■ | ■ | ■ | ■ | ■ | ■ | | | | ■ | | | | ■ | ■ | ■ | ■ | ■ | | | ■ | |
| LF-LTS | End cap | 4008321979049 | □ | □ | □ | □ | □ | □ | | | | □ | | | | □ | □ | □ | □ | □ | | | □ | |
| LF-LTS | Cover C (clear) | 4008321790187 | ■ | ■ | ■ | ■ | ■ | ■ | | | | ■ | | | | ■ | ■ | ■ | ■ | ■ | | | ■ | |
| LF-LTS | Cover S (shortpitch-diff) | 4008321790200 | ■ | ■ | ■ | ■ | ■ | ■ | | | | ■ | | | | ■ | ■ | ■ | ■ | ■ | | | ■ | |
| **QUICK MOUNTING TRACKS** | | | | | | | | | | | | | | | | | | | | | | | | |
| FX-QMS-G1-TU15H6-300 | Slim track | 4052899448865 | ● | ● | ● | ● | ● | ● | ○ | | | ○ | | | | ◑ | ◑ | ◑ | ◑ | | | | | |
| FX-QMS-G1-TU15H6W3-300 | Slim track | 4052899448889 | ● | ● | ● | ● | ● | ● | ○ | | | ○ | | | | ◑ | ◑ | ◑ | ◑ | | | | | |
| FX-QMS-G1-TU16H12-300 | Slim track | 4052899448964 | ● | ● | ● | ● | ● | ● | ○ | | | ○ | | | | ● | ● | ● | ● | | ◑ | ◑ | | |
| FX-QMS-G1-TU16H12W3-300 | Slim track | 4052899448988 | ● | ● | ● | ● | ● | ● | ○ | | | ○ | | | | ● | ● | ● | ● | | ◑ | ◑ | | |
| FX-QMS-G1-TR19H16-300 | Slim track | 4052899449008 | ● | ● | ● | ● | ● | ● | ○ | | | ○ | | | | ● | ● | ● | ● | | ◑ | ◑ | | |
| FX-QMS-G1-TU16H12LS | Slim track | 4052899449046 | ● | ● | ● | ● | ● | ● | ○ | | | ○ | | | | ◑ | ◑ | ◑ | ◑ | | ◑ | ◑ | | |
| FX-QMS-G1-T45D19H19-300 | Slim track | 4052899448667 | ● | ● | ● | ● | ● | ● | ○ | | | ○ | | | | ● | ● | ● | ● | | ○ | ◑ | | |
| FX-QMH-G1-TU15H23W4-105 | Handrail track | 4052899449022 | ● | ● | ● | ● | ● | ● | ○ | | | ○ | | | | ● | ● | ● | ● | | | | | |
| FX-QMW-G1-TK30D46H27-300 | Wide track | 4052899448827 | ● | ● | ● | ● | ● | ● | | | | ● | | | | ● | ● | ● | ● | | ● | ◑ | | |
| FX-QMW-G1-TU26H25W10-300 | Wide track | 4052899448773 | ● | ● | ● | ● | ● | ● | ● | ○ | | ● | ○ | | | ● | ● | ● | ● | | ● | ◑ | | ● | ◑ |
| FX-QMW-G1-TU26H8-300 | Wide track | 4052899448643 | ● | ● | ● | ● | ● | ● | | | | | | | | ● | ● | ● | ● | | ● | ◑ | | ● | ◑ |
| FX-QMW-G1-TU26H25W2-300 | Wide track | 4052899448841 | ● | ● | ● | ● | ● | ● | ● | ○ | | ● | ○ | | | ● | ● | ● | ● | | ● | ◑ | | ● | ◑ |
| FX-QMW-G1-TU26H25-300 | Wide track | 4052899448803 | ● | ● | ● | ● | ● | ● | ● | ○ | | ● | ○ | | | ● | ● | ● | ● | | ● | ◑ | | ● | ◑ |
| FX-QME-G1-T6G10H25-300 | Edge lighting track | 4052899448711 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | |
| FX-QME-G1-T810G12H25-300 | Edge lighting track | 4052899448759 | ● | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | |
| **VALUE TRACK System** | | | | | | | | | | | | | | | | | | | | | | | | |
| VF-TR1000 | Track | 4008321867636 | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | ■ | | | | |
| VI-TR1000 | Track | 4008321893789 | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | ■ | |
| **SLIMCONNECTsystem Flex G2 (Generation 2)** | | | | | | | | | | | | | | | | | | | | | | | | |
| FX-SC08-G2-CT2PF-0500 | 2-pin feeder | 4052899464735 | ■ | ■ | | | | | | | | ■ | ■ | | | | | | | ■ | ■ | ■ | | |
| FX-SC08-G2-CT2PF-1000 | 2-pin feeder | 4052899464766 | ■ | ■ | | | | | | | | ■ | ■ | | | | | | | ■ | ■ | ■ | | |
| FX-SC08-G2-CT3PF-0500HF | 3-pin feeder | 4052899482999 | | | | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | |
| FX-SC08-G2-CT3PFE-0500HF | 3-pin feeder | 4052899483026 | | | | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | |
| FX-SC08-G2-CT4PF-0500 | 4-pin feeder | 4052899464797 | | | | ■ | | | | | | | | | | | | | | | | | | |
| FX-SC08-G2-CT4PF-1000 | 4-pin feeder | 4052899464827 | | | | ■ | | | | | | | | | | | | | | | | | | |
| FX-SC08-G2-CT4PJ | 4-pin jumper | 4052899464858 | ■ | ■ | | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | | | □ | □ | | | ■ | ■ | ■ | □ | □ | □ |
| FX-SC08-G1-FW4P-LIN-0030 | Extension wire 30 mm | 4008321875587 | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | ■ | ■ | ■ | | | |
| FX-SC08-G1-FW4P-LIN-0150 | Extension wire 150 mm | 4008321875563 | ■ | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | ■ | ■ | ■ | | | |
| FX-SC08-G2-C2PF-IP54-0500 | 2-pin feeder IP54 | 4052899464889 | | | | | | | | | | | | | | ■ | ■ | | | | | | ■ | ■ | ■ |
| FX-SC08-G2-BTJ-IP54 | Silicone boot for jumper to add IP54 protection | 4052899464919 | | | | | | | | | | | | | | ■ | ■ | | | | | | □ | □ | □ |

For a full overview on Flexessories®, please visit www.osram.com/flexessories
Dedicated tracks for LINEARlight Flex® Diffuse are available summer 2017.
* LF4000 has the same CONNECTsystem as LF2000 and LF3000.





■ = Combination options between Flex LED modules and accessories
□ = Additionally required accessories, see data sheets for detailed information

| | | | LINEARlight | Flex (un-protected) | | Flex Protect | | | | | | VALUE Flex | | Flex Diffuse | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ordering code | Short description | Product number (EAN) | LF06A, LF05A2 | LF05E2, LF05E | LF05CE | LFP3000, LFP2000, LFP1200, LFP800, | LF06P2-P, LF06A-P, LFP800S | LF05A-P | LF05E-P, LF06E-P | LF05CA-P, LF05CE-P | VF1000, VF2400S, VF1200S, VF600, BF350 | VFP1000, VFP2000, VFP1200S, VFP2400S | LFD400T, LFD400MT | LFD400S, LFD400MS |
| **CONNECTsystem Flex** | | | | | | | | | | | | | | |
| LF-2PIN FLEX | 2-pin feeder | 4008321955326 | ■ | ■ | | | | | | | | | | |
| LF-4PIN FLEX | 4-pin feeder | 4008321514585 | | | ■ | | | | | | | | | |
| LF-CONN-10 FLEX | Bridge 10 mm | 4008321955333 | ■ | ■ | ■ | | | | | | | | | |
| LF-CONN-150 FLEX | Bridge 150 mm | 4008321955340 | ■ | ■ | ■ | | | | | | | | | |
| LF-2TERM FLEX | 2-pin terminal | 4008321955357 | ■ | | | | | | | | | | | |
| **CONNECTsystem Flex IP67 LP (low profile)** | | | | | | | | | | | | | | |
| LF-ENDCAP IP67 LP | End cap IP67 LP | 4052899902565 | | | | ■ | | | | | | | | |
| LF-2CONN IP67 LP | 2-pin jumper IP67 LP | 4052899125735 | | | | ■ | | | | | | ■ | | |
| LF-2PIN IP67 LP | 2 pin feeder IP67 LP | 4052899125711 | | | | ■ | | | | | | ■ | | |
| **CONNECTsystem Flex IP67** | | | | | | | | | | | | | | |
| LF-ENDCAP-PROTECT | End cap IP67 | 4008321977106 | | | | | ■ | ■ | ■ | | | | | |
| LF-CLIP FIXTURE PROTECT | Mounting clip IP67 | 4008321644749 | | | | | ■ | ■ | ■ | | | | | |
| LF-2PIN-PROTECT | 2-pin feeder IP67 | 4008321977069 | | | | | ■ | ■ | | | | ■ | | |
| LF-4PIN-PROTECT | 4 pin feeder IP67 | 4008321977076 | | | | | ■ | | ■ | | | | | |
| LF-2CONN-PROTECT | 2-pin jumper IP67 | 4008321977083 | | | | | | □ | ■ | | | ■ | | |
| LF-4CONN-PROTECT | 4-pin jumper IP67 | 4008321977090 | | | | | | | ■ | | | | | |
| **CONNECTsystem Diffuse (top bending)** | | | | | | | | | | | | | | |
| FX-DCS-G1-CM2PF-IP67-0500-X5 | Middle power feeder | 4052899451971 | | | | | | | | | | | ■ | |
| FX-DCS-G1-CM2PJ-IP67-0190-X5 | Module-to-module middle jumper | 4052899452039 | | | | | | | | | | | ■ | |
| FX-DCS-G1-CM2PF-IP67-TOPKIT5 | Feeder kit with end caps & glue | 4052899451995 | | | | | | | | | | | ■ | |
| FX-DCS-G1-CM2PJ-IP67-TOPKIT5 | Jumper kit with end caps & glue | 4052899452053 | | | | | | | | | | | ■ | |
| FX-DCS-G1-ECT-KIT20 | End caps & glue | 4052899452107 | | | | | | | | | | | ■ | |
| FX-DCS-G1-EHT-KIT20 | Double-sided end caps & glue | 4052899452176 | | | | | | | | | | | ■ | |
| FX-DCS-G1-GL-25 | Silicone glue 25 g | 4052899452244 | | | | | | | | | | | ■ | |
| **CONNECTsystem Diffuse (side bending)** | | | | | | | | | | | | | | |
| FX-DCS-G1-CM2PF-IP67-0500-X5 | Middle power feeder | 4052899451971 | | | | | | | | | | | | ■ |
| FX-DCS-G1-CM2PJ-IP67-0190-X5 | Module-to-module middle jumper | 4052899452039 | | | | | | | | | | | | ■ |
| FX-DCS-G1-CM2PF-IP67-SIDEKIT5 | Feeder kit with end caps & glue | 4052899452015 | | | | | | | | | | | | ■ |
| FX-DCS-G1-CM2PJ-IP67-SIDEKIT5 | Jumper kit with end caps & glue | 4052899452077 | | | | | | | | | | | | ■ |
| FX-DCS-G1-ECS-KIT20 | End caps & glue | 4052899452121 | | | | | | | | | | | | ■ |
| FX-DCS-G1-EHS-KIT20 | Double-sided end caps & glue | 4052899452206 | | | | | | | | | | | | ■ |
| FX-DCS-G1-GL-25 | Silicone glue 25 g | 4052899452244 | | | | | | | | | | | | ■ |
| **Diffuse Mounting System** | | | | | | | | | | | | | | |
| FX-LFDM-G1-BT-17H11 | Mounting bracket | 4052899452480 | | | | | | | | | | | ■ | |
| FX-LFDM-G1-BTL-17H11E9 | Mounting bracket with additional wing | 4052899452510 | | | | | | | | | | | ■ | |
| FX-LFDM-G1-BS-12H13 | Mounting bracket | 4052899452541 | | | | | | | | | | | | ■ |
| FX-LFDM-G1-BSL-12H13E9 | Mounting bracket with additional wing | 4052899452572 | | | | | | | | | | | | ■ |

# Basic Flex®

## Technical Information



### Benefits

- Energy saving LED flexible strip for hospitality.
- Self-adhesive tape on the back for easy and fast installation.
- Consistent colour provides fine and comfort light output.
- Reliable connectors for easy cut and re-connection

### Applications

- Hospitality lighting for hotels, retail shops, and household.
- Shelf lighting for retails, shops & supermarkets.
- Accent lighting for restaurants, shops, lobbies, hospitals

### Technical Operating Data

| Product | EAN 10 | No. of LEDs | Voltage [V DC]* | Power [W]* | Current [A]* | Wavelength Color Temp [K]* | Lum. Flux [lm]/meter * | Lum. Flux [lm]/chain* |
|---|---|---|---|---|---|---|---|---|
| IP20 | | | | | | | | |
| BF350-G2-827-05 | 4052899332263 | 240 | 24 | 17.5 | 0.73 | 2700 | 350 | 1750 |
| BF350-G2-830-05 | 4052899332300 | 240 | 24 | 17.5 | 0.73 | 3000 | 350 | 1750 |
| BF350-G2-840-05 | 4052899332348 | 240 | 24 | 17.5 | 0.73 | 4000 | 370 | 1850 |
| BF350-830-05-G1 IN | 4052899544734 | 240 | 24 | 17.5 | 0.73 | 3000 | 350 | 1750 |
| BF350-865-05-G1 IN | 4052899544758 | 240 | 24 | 17.5 | 0.73 | 6500 | 350 | 1750 |
| BF900-830-05-G1 IN | 4052899544772 | 240 | 24 | 45 | 1.67 | 3000 | 900 | 4500 |
| BF900-865-05-G1 IN | 4052899544796 | 240 | 24 | 45 | 1.67 | 6500 | 900 | 4500 |
| IP66 | | | | | | | | |
| BFP300-G2-827-05 | 4052899332386 | 240 | 24 | 17.5 | 0.73 | 2700 | 300 | 1500 |
| BFP300-G2-830-05 | 4052899332423 | 240 | 24 | 17.5 | 0.73 | 3000 | 300 | 1500 |
| BFP300-G2-840-05 | 4052899332461 | 240 | 24 | 17.5 | 0.73 | 4000 | 320 | 1600 |

### Technical Features

- Size of printed circuit board (LxWxH): 5000mm x 8mmx1.2mm
- Size of smallest unit: 125mm
- The LED pitch is 20.83mm
- Connection possible at the reel end or at the cut points
- 24V Constant Voltage LED modules
- CRI >80
- Linear LED strip on flexible printed circuit board with self adhesive tape at the back allows easy mounting
- Up to 20,000 hrs lifetime at Tc = 60°C.

### Accessories suitable for BF350 & BFP300 (To be ordered Separately, if required)

| EAN 10 | Product Description |
|---|---|
| 4052899951532 | BF-CONN FLEX (board to board connector) |
| 4052899951525 | BF-2PIN FLEX (board to driver Connector) |
| 4052899951556 | BF-CONN FLEX IP54 (board to board IP connector Sleeve) |
| 4052899951549 | BF-2PIN FLEX IP54 (board to driver Connector) |







## LELA Rigid (Light Engine-Linear Application)

LINEAR Rigid Slim Diffuse - G1
BASIC Linear - G1

# LINEAR Rigid Slim Diffuse - G1

## Technical Information



### Benefits

- Elegant appearance, soft lighting, super slim design.
- Seamless connection for structure and light
- Surface mount by screw/magnet for easy installation
- Available in warm white and cold white
- 120° viewing angle per module
- Dimmable

### Applications

- Interior decoration.
- Show case & stock shelves.
- Retail & Supermarket.
- Corridor & ladder.

### Technical Operating Data

| Product | EAN 10 | Color Temp. | Voltage [V dc] | Lumen (lm) | Efficacy (lm/W) | Current [I A] | Power [W]* | Length (mm) | No. of LEDs |
|---|---|---|---|---|---|---|---|---|---|
| LR700SD-G1-824-01 | 4052899557291 | 2400 | 24 | 60 | 60 | .060 | 1 | 102 | 14 |
| LR700SD-G1-827-01 | 4052899557314 | 2700 | 24 | 65 | 65 | .060 | 1 | 102 | 14 |
| LR700SD-G1-830-01 | 4052899557338 | 3000 | 24 | 65 | 65 | .060 | 1 | 102 | 14 |
| LR700SD-G1-840-01 | 4052899557352 | 4000 | 24 | 70 | 70 | .060 | 1 | 102 | 14 |
| LR700SD-G1-824-03 | 4052899557437 | 2400 | 24 | 180 | 60 | .190 | 3 | 284 | 42 |
| LR700SD-G1-827-03 | 4052899557451 | 2700 | 24 | 195 | 65 | .190 | 3 | 284 | 42 |
| LR700SD-G1-830-03 | 4052899557475 | 3000 | 24 | 195 | 65 | .190 | 3 | 284 | 42 |
| LR700SD-G1-840-03 | 4052899557499 | 4000 | 24 | 210 | 70 | .190 | 3 | 284 | 42 |
| LR700SD-G1-824-06 | 4052899557512 | 2400 | 24 | 360 | 60 | .380 | 6 | 603 | 91 |
| LR700SD-G1-827-06 | 4052899557536 | 2700 | 24 | 390 | 65 | .380 | 6 | 603 | 91 |
| LR700SD-G1-830-06 | 4052899557550 | 3000 | 24 | 390 | 65 | .380 | 6 | 603 | 91 |
| LR700SD-G1-840-06 | 4052899557574 | 4000 | 24 | 420 | 70 | .380 | 6 | 603 | 91 |
| LR700SD-G1-824-09 | 4052899557598 | 2400 | 24 | 540 | 60 | .570 | 9 | 876 | 133 |
| LR700SD-G1-827-09 | 4052899557611 | 2700 | 24 | 585 | 65 | .570 | 9 | 876 | 133 |
| LR700SD-G1-830-09 | 4052899557635 | 3000 | 24 | 585 | 65 | .570 | 9 | 876 | 133 |
| LR700SD-G1-840-09 | 4052899557659 | 4000 | 24 | 630 | 70 | .570 | 9 | 876 | 133 |
| LR700SD-G1-824-12 | 4052899557673 | 2400 | 24 | 750 | 60 | .750 | 12.5 | 1194 | 182 |
| LR700SD-G1-827-12 | 4052899557697 | 2700 | 24 | 810 | 65 | .750 | 12.5 | 1194 | 182 |
| LR700SD-G1-830-12 | 4052899557710 | 3000 | 24 | 810 | 65 | .750 | 12.5 | 1194 | 182 |
| LR700SD-G1-840-12 | 4052899557734 | 4000 | 24 | 920 | 74 | .750 | 12.5 | 1194 | 182 |

*) All Data are related to the entire module.
Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data.

### Technical Features

- Size (L xWxH):
  102/284/603/876/1194 mm x 6.5 mm x 9 mm
- Max. available length to be connected in series: 3,000mm
- Pre-mounted connectors on both terminals for easy connection
- 24V Constant Voltage LED modules
- Colour consistency <4 SCDM
- CRI >80
- Up to 36,000 hrslifetime





# BASIC Linear - G1

## Ideal alternative to linear fluorescent lamp source



### Basic description

BASIC Linear series offer reliable and value for money solutions for a variety of general lighting applications. Providing seamless longlife, energy-efficient, and economical lighting alternative to linear fluorescent lamp sources.

- CE marks
- UL Listed

### Features

- Consistent white light < 4 SDCM
- Poke-in connectors for 0.5mm² wire
- CRI>80
- Beam angle 120° ± 5°

### Benefits

- Efficacy: up to 151 lm/W
- Homogeneous light distribution
- No special connection cable needed
- Self-cooling
- Form factor-according Zhaga book 7
- Normal operation with 350mA, able to overdrive up to 500mA.

### Applications

- Office (workplace illumination, corridor)
- Commercials (Indoor car park)
- Industry (storage, warehouse, retail)
- Public area (corridor, stairs, subway)

| | | | Flux (lm) | | lm/W* Module | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Product | EAN | CCT (K) | Tp 55°C | Tp 80°C | P (W) Module | Tp 55°C | Tp 80°C | Vf (V) | If (mA) | L70 B50** (h) |
| BL-770-830-280 VS200 G1 | 4052899375390 | 3000 | 740 | 700 | 5.2 | 140 | 132 | 15 | 350 | 50,000 |
| BL-770-840-280 VS200 G1 | 4052899375413 | 4000 | 780 | 740 | 5.2 | 148 | 139 | 15 | 350 | 50,000 |
| BL-770-865-280 VS200 G1 | 4052899375437 | 6500 | 780 | 740 | 5.2 | 148 | 139 | 15 | 350 | 50,000 |
| BL-1100-830-280 VS200 G1 | 4052899375451 | 3000 | 1030 | 980 | 7.2 | 140 | 132 | 20.5 | 350 | 50,000 |
| BL-1100-840-280 VS200 G1 | 4052899375475 | 4000 | 1100 | 1045 | 7.2 | 150 | 141 | 20.5 | 350 | 50,000 |
| BL-1100-865-280 VS200 G1 | 4052899375499 | 6500 | 1100 | 1045 | 7.2 | 150 | 141 | 20.5 | 350 | 50,000 |
| BL-1550-830-560 VS100 G1 | 4052899375536 | 3000 | 1480 | 1400 | 10.4 | 141 | 133 | 29.8 | 350 | 50,000 |
| BL-1550-840-560 VS100 G1 | 4052899375550 | 4000 | 1560 | 1480 | 10.4 | 149 | 140 | 29.8 | 350 | 50,000 |
| BL-1550-865-560 VS100 G1 | 4052899375574 | 6500 | 1560 | 1480 | 10.4 | 149 | 140 | 29.8 | 350 | 50,000 |
| BL-2200-830-560 VS100 G1 | 4052899375598 | 3000 | 2070 | 1960 | 14.4 | 141 | 133 | 41 | 350 | 50,000 |
| BL-2200-840-560 VS100 G1 | 4052899375611 | 4000 | 2200 | 2090 | 14.4 | 150 | 141 | 41 | 350 | 50,000 |
| BL-2200-865-560 VS100 G1 | 4052899375635 | 6500 | 2200 | 2090 | 14.4 | 150 | 141 | 41 | 350 | 50,000 |
| BL-4400-830-1120 VS50 G1 | 4052899375659 | 3000 | 4140 | 3930 | 28.8 | 142 | 133 | 82.4 | 350 | 50,000 |
| BL-4400-840-1120 VS50 G1 | 4052899375673 | 4000 | 4400 | 4180 | 28.8 | 151 | 142 | 82.4 | 350 | 50,000 |
| BL-4400-865-1120 VS50 G1 | 4052899375697 | 6500 | 4400 | 4180 | 28.8 | 151 | 142 | 82.4 | 350 | 50,000 |

## System matching combination

| OT Description | Current setting | Module Type BL-770 15V 5.2W | BL-1550 29.8V 10.4W | BL-1100 20.5V 7.2W | BL-2200 41V 14.4W | BL-4400 82.4V 28.8W |
|---|---|---|---|---|---|---|
| OTI DALI 35/220-240/700 LT2L | 700mA | 2p2s | 2p1s | 2p2s | 2p1s | |
| OTI DALI 50/220-240/1A4 LT2L | 1050mA | 3p2s | 3p1s | 3p2s | 3p1s | |
| OTI DALI 80/220-240/1A6 LT2L | 1400mA | 4p3s | 4p1s | 4p2s | 4p1s | |
| OTI DALI 80/220-240/2A1 LT2L | 2100mA | 6p2s | 6p1s | | | |

## Accessories details

| Product | EAN 10 | Length (mm) | Width (mm) | Height (mm) | Material | Transmission |
|---|---|---|---|---|---|---|
| PL-LIN DIFFUSER 560X28 | 4052899466692 | 560 | 29 | 22 | PC | 82% |
| PL-LIN DIFFUSER 600X28 | 4052899466739 | 600 | 29 | 22 | PC | 82% |
| PL-LIN DIFFUSER 1150X28 | 4052899466753 | 1150 | 29 | 22 | PC | 82% |
| PL-LIN DIFFUSER 1450X28 | 4052899466777 | 1450 | 29 | 22 | PC | 82% |
| PL-LIN ENDCAP FOR DIFFUSER 28 | 4052899466791 | 12 | 32 | 24 | PC | Opaque |







# Accessories

PrevaLED® Linear Diffuser and End Cap

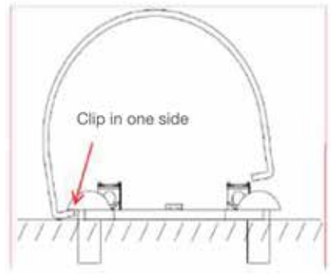


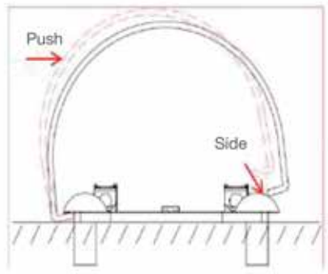
### Description (Diffuser)

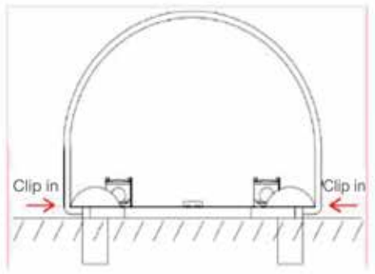
- Width: 28.5mm
- Height: 22 mm
- Length: 560 / 600 /1150 /1450mm
- Material of UL94-V2 grade PC for safe operation

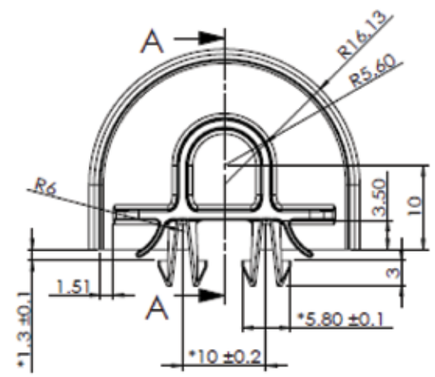
### Description (Endcap)

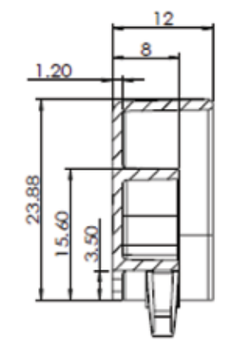
- Material: PC
- Dimension: 32.2 mm x 23.9 mm x 12 mm (based on the width of linear 20 mm)
- Fast snap on mounting, suitable for tray thickness 0.4mm - 1mm and drilling hole 4 mm

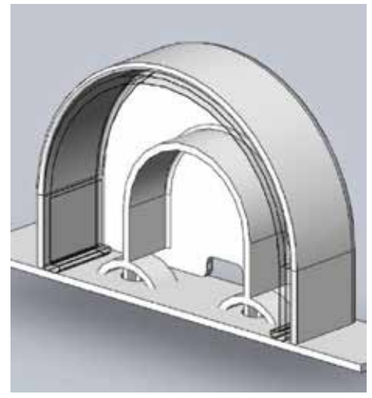


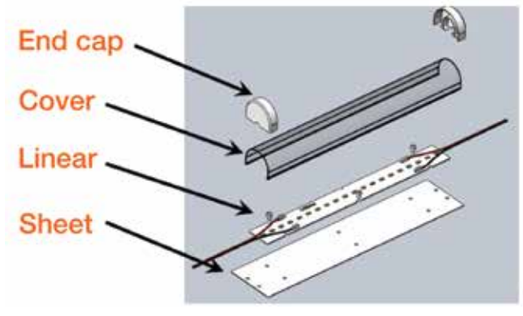



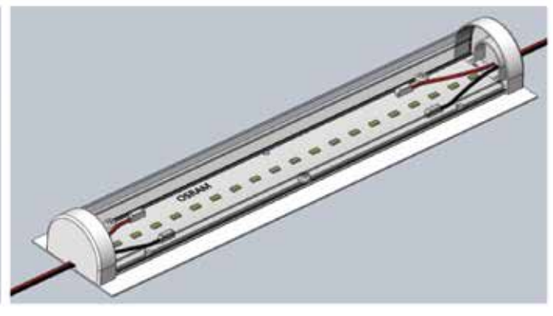



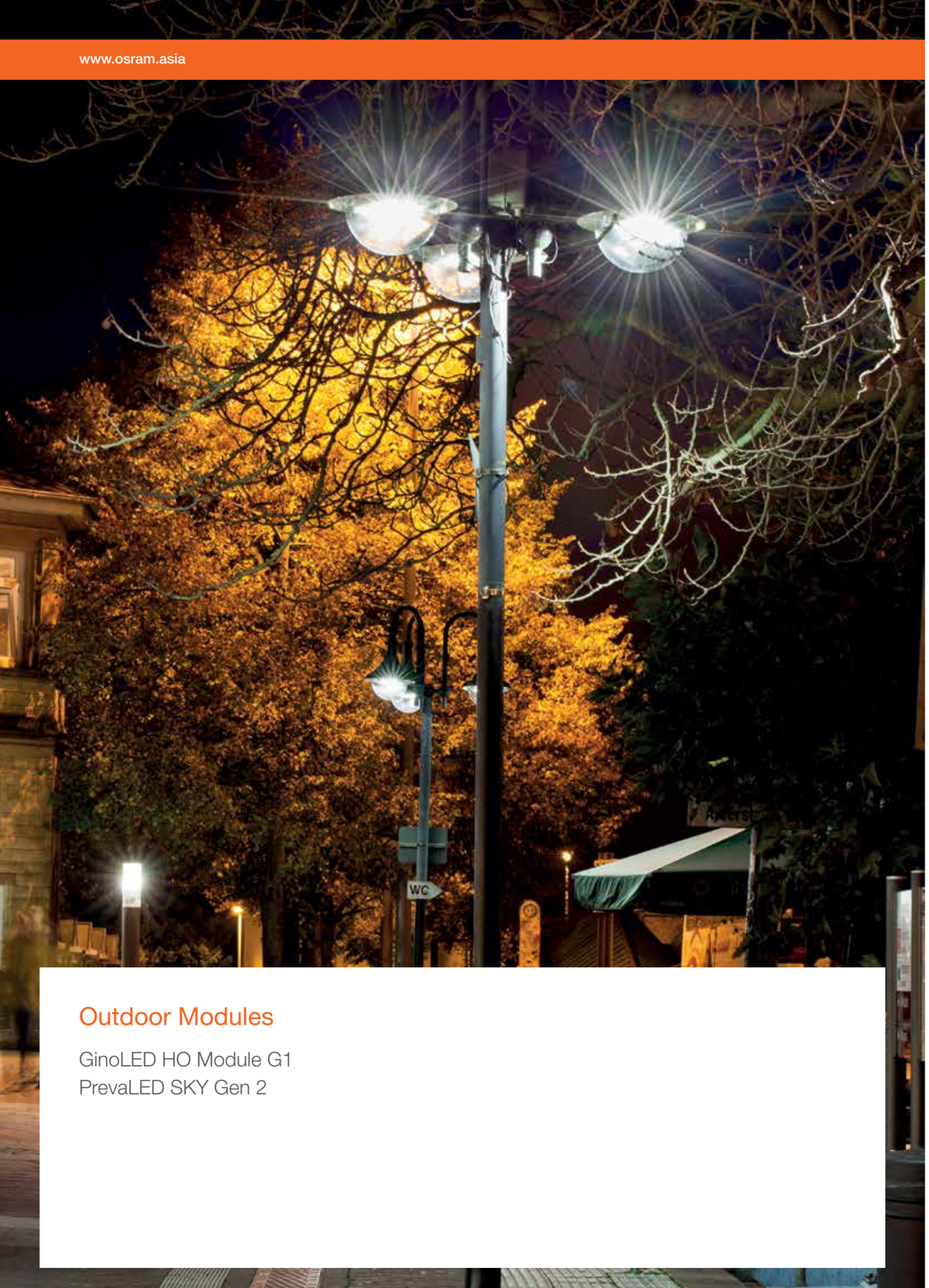







## Outdoor Modules

GinoLED HO Module G1
PrevaLED SKY Gen 2



# GinoLED HO* Module G1

Datasheet





The GinoLED is a high power LED module with an integrated sink for optimal thermal management and tailored optical design. The GinoLED lightweight and easy assembly design makes intallation much easier. Up to 154Lm/W high efficacy designed to reach more energy saving. GinoLED is an IP65 unit equipped with IP connector for easy installation. GinoLED is the best solution for traditional lamp from 100W to 400W.

## Benefits

- Tailored optical and thermal design
  - 60°×60° and 90°×90° lens design, adaptation to different mounting heights.
  - The high performance of GinoLED module is attributable to the omnidirectional nature of tree-like fins. Thanks to that, air streams are able to enter and exit from all directions.
- IP65/IK08 protection
  - Self-contained housing with heat sink, no extra protection is needed
- High energy efficiency
  - Up to 154Lm/W high efficacy**.
- Easy for assembly
  - Thanks for GinoLED integrated design, only few step to finish assembly.
- Long life time
  - 50,000hrs

** Mentioned efficacy without driver power consumption.

*HO: High lumen output

## Applications

- Airport, Station, Factory
- Indoor Court, Exhibition Hall, Warehouse



## Specification (4000K & 6500K)

The typical values involved in this specification are under the following conditions:

| Product category | tp-normal |
|---|---|
| GL-HO-G1 80-XXX-LXXXXX | 50°C |
| GL-HO-G1 120-XXX-LXXXXX | 55°C |
| GL-HO-G1 150-XXX-LXXXXX | 60°C |
| GL-HO-G1 180-XXX-LXXXXX | 60°C |

| | Parameter | GinoLED HO Module G1 | | | |
|---|---|---|---|---|---|
| | | GL-HO-G1 80 | GL-HO-G1 120 | GL-HO-G1 150 | GL-HO-G1 180 |
| Light Output | Typical Module flux | 11400 lm | 17100 lm | 21400 lm | 25600 lm |
| | Typical Module efficacy | 154 Lm/W | 154 Lm/W | 154 Lm/W | 154 Lm/W |
| | Optical | 60° x 60° | | | |
| | | 90° x 90° | | | |
| | CCT | 4000K & 6500K | | | |
| | SDCM | 5 | | | |
| | Typical CRI (Ra) | 80 or > 80 | | | |
| | Lifetime(L70B50@ tp-normal) | 50,000 hours | | | |
| Electrical | Typical input voltage | 106V dc | 106V dc | 132V dc | 158V dc |
| | Typical input current | 0.7 A | 1.05 A | 1.05 A | 1.05 A |
| | Module Power @( typical) | 74W | 111W | 139W | 166W |
| | Recommended Driver | OSRAM OPTOTRONIC | | | |
| | | 80W: OT 100/220-240/1A4 1DIMA P7 | | | |
| | | 120W: OT 150/220-240/1A4 1DIMA P7 | | | |
| | | 150W: OT 150/220-240/1A4 1DIMA P7 | | | |
| | | 180W: OT 200/220-240/1A4 1 DIMA P7 | | | |
| Mechanical | Dimension | ø296mmL x 204mmH | | ø339mmL x 233mmH | |
| | | (Include Driver box) | | (Include Driver box) | |
| | Mounting | Suspended / wall mounted** | | | |
| | Optics | Polycarbonate lens | | | |
| | Module Weight | 2.1 kg | | 2.8 kg | |
| Temperature | Operating temp. range (ta)* | -30 … 45°C | | | |
| | Storage temp. range* | -40 … 80°C | | | |
| Standard Compliance | IP Rating | IP65 | | | |
| | IK Rating | IK08 | | | |
| | Certification | CE<br>CB/CQC | | | |

**IP65 IK08**

Due to the special conditions of manufacturing processes of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product. Actual lumen output can be varied due to many factors like lamp factor of LED, input current/voltage, thermal conditions, many other optical tolerance, and measurement tolerance. The data above is for reference only. Please contact Osram sales or marketing staff for advice if customers has any specific demand on particular parameters.

Tolerance of measurements for the color rendering Ra is ±2.

* Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED module. The temperature of the LED module needs to be measured at the tc-point according to EN60598-1 in a thermally constant state with a temperature sensor or a temperature sensitive label.

** Additional accessories are needed for Wall mounted, please contact with sales to get more information.





| Product | EAN | I in (MA) | VIN DC | Dimension (MM) (L x H) | P (W) Module | CCT (K) | OPTICS | IP | Nominal Flux | LM/W |
|---|---|---|---|---|---|---|---|---|---|---|
| GL-HO-G1 80-840 L60X60 | 4052899543218 | 700 | 106 | ø296 x 204 | 74 | 4000 | 60 x 60 | IP65 | 11400 | 154 |
| GL-HO-G1 80-840 L90X90 | 4052899543232 | 700 | 106 | ø296 x 204 | 74 | 4000 | 90 x 90 | IP65 | 11400 | 154 |
| GL-HO-G1 80-865 L60X60 | 4052899543256 | 700 | 106 | ø296 x 204 | 74 | 6500 | 60 x 60 | IP65 | 11400 | 154 |
| GL-HO-G1 80-865 L90X90 | 4052899543270 | 700 | 106 | ø296 x 204 | 74 | 6500 | 90 x 90 | IP65 | 11400 | 154 |
| GL-HO-G1 120-840 L60X60 | 4052899543300 | 1050 | 106 | ø296 x 204 | 111 | 4000 | 60 x 60 | IP65 | 17100 | 154 |
| GL-HO-G1 120-840 L90X90 | 4052899543324 | 1050 | 106 | ø296 x 204 | 111 | 4000 | 90 x 90 | IP65 | 17100 | 154 |
| GL-HO-G1 120-865 L60X60 | 4052899543355 | 1050 | 106 | ø296 x 204 | 111 | 6500 | 60 x 60 | IP65 | 17100 | 154 |
| GL-HO-G1 120-865 L90X90 | 4052899543379 | 1050 | 106 | ø296 x 204 | 111 | 6500 | 90 x 90 | IP65 | 17100 | 154 |
| GL-HO-G1 150-840 L60X60 | 4052899543393 | 1050 | 132 | ø339 x 233 | 139 | 4000 | 60 x 60 | IP65 | 21400 | 154 |
| GL-HO-G1 150-840 L90X90 | 4052899543416 | 1050 | 132 | ø339 x 233 | 139 | 4000 | 90 x 90 | IP65 | 21400 | 154 |
| GL-HO-G1 150-865 L60X60 | 4052899543430 | 1050 | 132 | ø339 x 233 | 139 | 6500 | 60 x 60 | IP65 | 21400 | 154 |
| GL-HO-G1 150-865 L90X90 | 4052899543454 | 1050 | 132 | ø339 x 233 | 139 | 6500 | 90 x 90 | IP65 | 21400 | 154 |
| GL-HO-G1 180-840 L60X60 | 4052899543478 | 1050 | 158 | ø339 x 233 | 166 | 4000 | 60 x 60 | IP65 | 25600 | 154 |
| GL-HO-G1 180-840 L90X90 | 4052899543492 | 1050 | 158 | ø339 x 233 | 166 | 4000 | 90 x 90 | IP65 | 25600 | 154 |
| GL-HO-G1 180-865 L60X60 | 4052899543515 | 1050 | 158 | ø339 x 233 | 166 | 6500 | 60 x 60 | IP65 | 25600 | 154 |
| GL-HO-G1 180-865 L90X90 | 4052899543539 | 1050 | 158 | ø339 x 233 | 166 | 6500 | 90 x 90 | IP65 | 25600 | 154 |

| Product | EAN | I out mA | V out DC | Dimension (MM) (L x W x H) | Pout W | V in AC | THD(%) at full load | IP | Surge Preot Ection L/N\|L/NPE (KV) | Dimmable |
|---|---|---|---|---|---|---|---|---|---|---|
| OT 100/220-240/1A4 1DIMA P7 | 4052899495036 | 400-1400 | 69-144 | 212x68x43.5 | 50-100 | 220-240 | <10% | IP67 | 6 \| 6 | Astrodim |
| OT 150/220-240/1A4 1DIMA P7 | 4052899495050 | 400-1400 | 95-214 | 212x68.5x37 | 75-150 | 220-240 | <10% | IP67 | 6 \| 6 | Astrodim |
| OT 200/220-240/1A4 1DIMA P7 | 4052899495074 | 400-1400 | 143-286 | 252.5x68x43.5 | 100-200 | 220-240 | <10% | IP67 | 6 \| 6 | Astrodim |



# PrevaLED SKY G2 Module

## Datasheet





The PrevaLED SKY is a high power LED module with integrated heat sink for optimal thermal management and tailored optical design. The modular design concept of PrevaLED SKY allows for design flexibility by varying the module quantity to achieve the best street lighting solution for difference application from Road lighting to Area lighting. The LED module is available in different color temperature (3000/4000/6500K), offering very long time lifetime for minimal maintenance. PrevaLED SKY is an IP66 unit equipped with M15 IP connector for easy installation and ideal for outdoor applications. *Product pictures only for reference

### Benefits

**Tailored optical design**
- Special designed lenses optimized the light distribution across the road for different road class requirements and also difference application required Highbay, Lowbay and Area floodlight illumination.

**Light weight design**
- Optimization of thermal design, keep small size, reducing the cost of structural accessories for luminaire level, and also easy for installation for end customer.

**IP66 protection**
- Self-contained housing with heat sink for excellent IP protection, no extra protection is needed.

**High energy efficiency**
- Up to 152Lm/W module efficacy, maximizing system efficiency.

**Stackable & maintainable module**
- Simple screw fixing module allowing multiple module configuration in luminaires.

**Long life time**
- Optimized for extended lifetime and lumen maintenance.

### Applications

- Area illumination for Highbay, Lowbay, Canopy light used for industry and outdoor applications
- Billboard light and Floodlight
- Street lighting for ME1 and ME2 road classes







### Specification (3000/4000/6500K)

The typical values involved in this specification are under the following conditions:

| Driver current | $t_p$-normal |
|---|---|
| 960mA | 75°C |
| 700mA | 65°C |
| 450mA | 55°C |

| Items | Parameter | PrevaLED SKY G2 | | |
|---|---|---|---|---|
| | | Low driven | Typical | Over driven |
| Light Output* | Driver current | 450 mA | 700 mA | 960 mA |
| | Typical luminous flux @4000K @tp-normal | 3200 Lm | 4600 Lm | 5900 Lm |
| | Luminous flux range @ 4000K @tp-normal | 2880~3520 Lm | 4140~5060 Lm | 5310~6490 Lm |
| | Optical | 150° x 80° T40°S (For Staggered / Opposite mount)<br>150° x 80° T40°C (For Twin-central mount)<br>60° x 60° (Highbay)<br>100° x 100° (Lowbay)<br>100° x 60° Asymmetric (Floodlight) | | |
| | CCT | 3000/4000/6500K | | |
| | Typical CRI (Ra) | >70 (> 80 for 4000K only) | | |
| | Lifetime (L70/B50) @tp-normal | 50,000hrs | 50,000hrs | 35,000hrs |
| Electrical | Typical input voltage | 46.7 V | 47.1 V | 50.0 V |
| | Input voltage range | 44.6~49.6 V | 46.1~51.4 V | 47.8~54 V |
| | Module Typical Power | 21 W | 34 W | 48 W |
| | Recommended Driver | Please refer to driver matching table | | |
| | ESD Protection | Contact 4KV, Air 8KV | | |
| | Dimming | Yes | | |
| Mechanical | Dimension | 220mm (L) x 70mm (W) x 66mm (H) | | |
| | Mounting | screw fixing at side brackets | | |
| | Optics | polycarbonate lens | | |
| | Weight | 350±30g | | |
| Temperature | Ambient temp. range | -30~+50°C | | |
| | Operating (case) temp. range * | -30~+90°C | | |
| | Storage temp. range * | -30~+85°C | | |
| Standard Compliance | IP Rating | IP66 | | |
| | IK Rating | IK08 | | |
| | Standard | IEC 62471; EN 60529; EN 62031; IEC 60598-1; EN 55015; EN 61547 | | |
| | Flammability | IEC 60598-1 | | |
| | Environment | RoHS | | |
| | Certification | CE/CB, CQC | | |

**IP66 IK08**

Due to the special conditions of manufacturing processes of LED, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product. Actual lumen output can be varied due to many factors like lamp factor of LED, input current/voltage, thermal conditions, many other optical tolerance, and measurement tolerance. The data above is for reference only. Please contact OSRAM sales or marketing staff for advice if customers has any specific demand on particular parameters.

Tolerance of measurements for the color rendering Ra is ±2.

* Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED module. The temperature of the LED module needs to be measured at the tc-point according to EN60598-1 in a thermally constant state with a temperature sensor or a temperature sensitive label.

| Product | EAN 10 | CCT | Lumen | | | V in dc | | | Watt | | | Optics | CRI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 450 mA* | 960 mA* | 700 mA* | 450 mA* | 960 mA* | 700 mA* | 450 mA* | 960 mA* | 700 mA* | | |
| PL-SKY-G2 730L100X100 W/P | 4052899573710 | 3000 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 100° x 100° | 70 |
| PL-SKY-G2 730L100X60 W/P | 4052899573734 | 3000 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 100° x 60° | 70 |
| PL-SKY-G2 730L60X60 W/P | 4052899573758 | 3000 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 60° x 60° | 70 |
| PL-SKY-G2 730L150X80T40C W/P | 4052899573772 | 3000 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 150° x 80° T40°C | 70 |
| PL-SKY-G2 730L150X80T40S W/P | 4052899573796 | 3000 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 150° x 80° T40°S | 70 |
| PL-SKY-G2 740L100X100 W/P | 4052899573819 | 4000 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 100° x 100° | 70 |
| PL-SKY-G2 740L100X60 W/P | 4052899573833 | 4000 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 100° x 60° | 70 |
| PL-SKY-G2 740L60X60 W/P | 4052899573857 | 4000 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 60° x 60° | 70 |
| PL-SKY-G2 740L150X80T40C W/P | 4052899573871 | 4000 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 150° x 80° T40°C | 70 |
| PL-SKY-G2 740L150X80T40S W/P | 4052899573895 | 4000 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 150° x 80° T40°S | 70 |
| PL-SKY-G2 765L100X100 W/P | 4052899573918 | 6500 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 100° x 100° | 70 |
| PL-SKY-G2 765L100X60 W/P | 4052899573932 | 6500 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 100° x 60° | 70 |
| PL-SKY-G2 765L60X60 W/P | 4052899573956 | 6500 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 60° x 60° | 70 |
| PL-SKY-G2 765L150X80T40C W/P | 4052899573970 | 6500 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 150° x 80° T40°C | 70 |
| PL-SKY-G2 765L150X80T40S W/P | 4052899573994 | 6500 | 3200 | 4600 | 5900 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 150° x 80° T40°S | 70 |
| PL-SKY-G2 840L100X100 W/P | 4052899574014 | 4000 | 3000 | 4500 | 5700 | 46.7 | 47.1 | 50.0 | 21 | 34 | 48 | 100° x 100° | 70 |

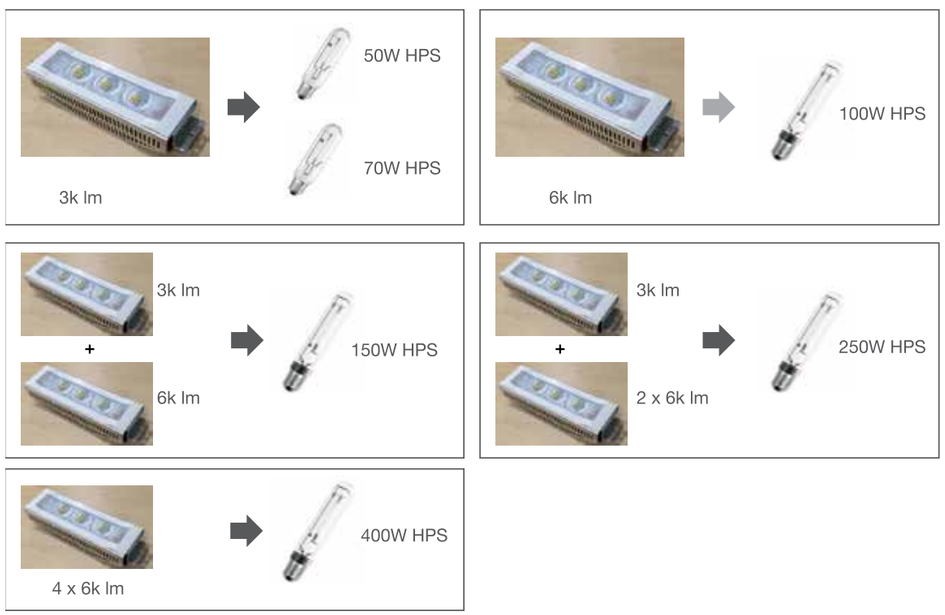


M15 IP Connection Adaptor by others
Can ve supplied upon request.



STD IP connection and M15 IP connection
Adaptor by others can be supplied upon request

Replacement of Traditional HPS




**Remark:** Due to difference luminaires have difference performance, above is only general recommendation on the replacement on the lamp, exact application lighting performance should be evaluate with lighting simulation.





# OPTOTRONIC® LED drivers from OSRAM – reliable and interoperable systems for energy-efficient lighting design

## Versatile LED drivers for different project needs

With a wide range of LED drivers, OSRAM provides you with individual LED solutions for your multifaceted professional and semiprofessional projects. All OSRAM LED drivers are known for their high performance and efficiency, giving you tremendous flexibility for the design of LED luminaires.

No matter whether the job involves indoor or outdoor settings, round or linear luminaires, general or accent lighting – we can help you find the right OSRAM LED driver. The following chapter informs you about:

- Perfect combinations – systems with matching LED drivers and LED modules
- High quality and guarantee – any LED driver that has failed because of a material or manufacturer's fault will be refunded
- OSRAM DALI technology (DALI-2, Constant Light Output (CLO), soft switch-off, Emergency Lighting (EL), Tunable White, Monitoring Data etc.), software and programming
- Design freedom and innovative housing designs
- Product families
  Features and segmentation of OSRAM LED driver families
  - Constant current, linear shape, indoor application
  - Constant current, compact shape, indoor application
  - Constant current, outdoor application
  - Constant voltage, indoor and outdoor application
- Useful installation and operating instructions (number of ECGs per circuit breaker, permitted number of switching cycles, lifetime of LED drivers and permitted temperatures etc.)





## A perfect combination

Expect more than just components. Expect a perfectly matched system. As one of the world's leading suppliers in the lighting sector, OSRAM provides you with perfectly matched components: innovative LED drivers and LED modules.

## Your benefits

- LED drivers and modules from a single source
- Maximum reliability in system operation
- Only one point of contact in all matters relating to lighting

## Research and development

Providing today what tomorrow needs. Continuous research and development on all OSRAM products promises innovative and open systems with additional user benefits to fulfill the needs of future lighting systems.

## Your benefits

- Compliance with current regulations and in certain cases, conformity with planned regulations
- High energy efficiency in lighting solutions
- The use of standard protocols enhanced by globally unique features
- DALI-2 logo: High inter-operability with DALI control devices and sensors from various manufacturers
- OSRAM's proven quality, technology and guarantee
- High quality of light (low light modulation, CLO)

## Excellent experience with 1 billion installed ECGs

Only those supplying highest quality earn your trust. With up to 100,000 hours at a maximum failure rate of 10%, OSRAM offers an excellent lifetime performance in the market. Thanks to this excellent level of reliability, OSRAM ECGs are not only the choice of leading luminaire manufacturers but also of well-known major users across the world.

Due to their high performance, an increasing number of OPTOTRONIC® LED drivers are also being used in extreme temperature ranges and harsh environments.





# OPTOTRONIC DRIVERS

### CONSTANT CURRENT INDOOR - COMPACT SERIES

| Product | EAN | Iout (mA) | Vout | Pout (W) | LxWxH (mm) |
|---|---|---|---|---|---|
| **ECO with 4 Current Selections - Non Dimmable** | | | | | |
| ELEMENT LD 20/220-240/350 CS IN | 4052899496880 | 190/250/290/350 | 27-54 | 5.13–18.9 | 97X43X29.5 |
| ELEMENT LD 30/220-240/700 CS IN | 4052899496903 | 400/500/600/700 | 21-43 | 14.7–30.1 | 97X43X29.5 |
| ELEMENT LD 45/220-240/1A0 CS IN | 4052899496927 | 800/900/950/1050 | 21-43 | 16.8–45.2 | 103x67x29.5 |
| **FIT with 4 Current Selections - Non Dimmable** | | | | | |
| OT FIT 20/220-240/350 CS IN | 4052899455979 | 190/250/290/350 | 27-54 | 5.13–18.9 | 97x43x29.5 |
| OT FIT 25/220-240/800 CS IN | 4052899455931 | 500/600/700/800 | 15-31 | 7.5–24.8 | 89.5x46x31.5 |
| OT FIT 30/220-240/700 CS IN | 4052899455993 | 400/500/600/700 | 21-43 | 14.7–30.1 | 103x67x29.5 |
| OT FIT 45/220-240/1A0 CS IN | 4052899456013 | 800/900/9501050 | 21-43 | 16.8–45.2 | 103x67x29.5 |
| OT FIT 50/220-240/800 CS IN | 4052899455955 | 500/600/700/800 | 30-61 | 15–48.8 | 120x55x35 |
| **Phase Cut - Dimmable** | | | | | |
| OTe 10/220-240/700 PC | 4052899105300 | 700 | 7–14 | 5–10 | 95x53x25 |
| OTe 13/220-240/350 PC | 4052899105324 | 350 | 18-38 | 6.5–13.5 | 95x53x25 |
| OTe 18/220-240/350 PC | 4052899105348 | 350 | 2-54 | 9.5–19 | 119x53x30 |
| OTe 25/220-240/700 PC | 4052899105386 | 700 | 18-36 | 12.5–25 | 95x53x30 |
| OTe 18/220-240/500 PC | 4052899105362 | 500 | 18-36 | 9–18 | 95x53x30 |
| OTE 35/220-240/700 PC | 4008321825520 | 700 | 27-50 | 19-35 | 153x54x36 |
| **Analog (1-10V) - Dimmable with programmable current** | | | | | |
| OT25W/PRG1250C/UNV/DIM (10-100% Dim) | 4052899035706 | 350-1250 | 10-55 | 25 | 127x61x31 |
| OT25W/PRG1250C/UNV/DIM-1 (1-100%) | 4008321887931 | 150-1250 | 10-55 | 25 | 127x61x31 |
| OT40W/PRG1400C/UNV/DIM (10-100%) | 4052899032705 | 400-1400 | 10-55 | 40 | 127x61x31 |
| OT40W/PRG1400C/UNV/DIM-1 (1-100%) | 4008321866325 | 400-1400 | 10-55 | 40 | 127x61x31 |
| **DALI - Dimmable with programmable current** | | | | | |
| OTi DALI 35/220-240/1A0 LT2 | 4052899919440 | 450-1050 | 15-54 | 15-35 | 103x67x29.5 |
| OTi DALI 25/220-240/700 LT2 | 4052899919457 | 250-700 | 12-54 | 10-27 | 103x67x29.5 |
| OTi DALI 15/220-240/1A0 LT2 | 4052899324879 | 150-1050 | 7.5-54 | 3- 18 | 95x53x30 |

### CONSTANT CURRENT INDOOR - LINEAR SERIES

| | | | | | |
|---|---|---|---|---|---|
| **FIT with 4 Current Selections - Non Dimmable** | | | | | |
| OT FIT 35/220-240/700 CS L IN | 4052899456037 | 400/500/600/700 | 27-54 | 10.8 – 37.8 | 280x30x21 |
| OT FIT 55/220-240/1A0 CS L IN | 4052899456051 | 800/900/950/1050 | 27-54 | 21.6 – 56.7 | 280x30x21 |
| OT FIT 75/220-240/1A4 CS L IN | 4052899456075 | 1100/1200/1300/1400 | 27-54 | 29.7 – 75.6 | 360x30x21 |
| **FIT with LEDset Gen 2 current setting - Non Dimmable** | | | | | |
| OT FIT 35/220-240/350 D LT2 L | 4052899478411 | 75 -350 | 54-216 | 4.1 -35 | 280x30x21 |
| OT FIT 75/220-240/550 D LT 2 L | 4052899478435 | 125-550 | 54-216 | 6.8 - 75 | 280x30x21 |
| OT FIT 120/220-240/750 D LT 2 L | 4052899497900 | 250-750 | 54-216 | 13.5 - 120 | 360 X 30 X 21 |
| **DALI - Dimmable with programmable current** | | | | | |
| OTi DALI 80/220-240/2A1 LT2 L | 4052899028050 | 1000-2100 | 27-54 | 32-80 | 360x30x21 |
| OTi DALI 80/220-240/1A6 LT2 L | 4052899028074 | 600-1600 | 27-54 | 32-80 | 360x30x21 |
| OTi DALI 50/220-240/1A4 LT2 L | 4052899028098 | 600-1400 | 27-54 | 20-54 | 360x30x21 |
| OTi DALI 90/220-240/1A0 LT2 L (NON-SELV) | 4008321867568 | 250-1000 | 54-240 | 13.5-90 | 280x30x21 |

## CONSTANT CURRENT OUTDOOR DRIVERS

| Product | EAN | Iout (mA) | Vout | Pout (W) | LxWxH (mm) |
|---|---|---|---|---|---|
| **IP65 - Non-Dimmable** | | | | | |
| OT 08/240/450 P5 | 4052899530799 | 450 | 15- 18 | 8 | 97.5 X 50 X 33 |
| OT 12/240/690 P5 | 4052899558472 | 690 | 15- 18 | 12 | 97.5 X 50 X 33 |
| OT 16/240/650 P5 | 4052899530836 | 650 | 21- 24 | 16 | 97.5 X 50 X 33 |
| OT 20/240/680 P5 | 4052899530812 | 680 | 27 - 30 | 20 | 97.5 X 50 X 33 |
| OT 30/240/680 P5 | 4052899530850 | 680 | 40 - 45 | 30 | 121.5 X 50 X 33 |
| OT 45/240/1A1 P5 | 4052899530874 | 1100 | 31 - 39 | 45 | 107.5 X 68 X 33 |
| OT 65/240/2A0 P5 | 4052899530898 | 2000 | 27 - 33 | 65 | 167 X 60 X 37.5 |
| OT 105/2402A3 P5 | 4052899530911 | 2300 | 40 - 46 | 105 | 209 X 60 X 37.50 |
| OT 135/240/2A9 P5 | 4052899530935 | 2900 | 40 - 46 | 135 | 209 X 60 X 37.50 |
| OT 180/240/4A0 P5 | 4052899530959 | 4000 | 40 - 46 | 185 | 251 X 60 X 37.50 |
| OT 50/120-277/700 P5 | 4052899259003 | 700 | 24-74 | 17-50 | 168x50x30 |
| OT 100/120-277/700 P5 | 4052899259065 | 700 | 55-152 | 50-100 | 168x60x38 |
| OT 180/120-277/700 P5 | 4052899259027 | 700 | 115-257 | 80-180 | 251x60x38 |
| **IP64 - 2DIM (1 - 10 V / AstroDIM)** | | | | | |
| OT 50/120-277/800 2DIMLT2 P6 | 4052899173781 | 350-800 | 30-115 | 50 | 168x50x30 |
| OT 50/120-277/1A2 2DIMLT2 P6 | 4052899173804 | 600-1250 | 20-55 | 50 | 168x50x30 |
| OT 100/120-277/800 2DIMLT2 P | 4052899253414 | 350-800 | 50-186 | 100 | 168x68x38 |
| OT 110/120-277/1A4 2DIMLT2 P | 4052899253438 | 600-1400 | 35-85 | 110 | 168x68x38 |
| **IP66 - 2DIM (1 - 10 V / AstroDIM)** | | | | | |
| OTi 50W/UNV/2100C/2DIMLT2/P6 | - | 1000-2100 | 15-55 | 50 | 169x43.5x30 |
| OT180W/UNV/1250C/2DIMLT2/P6 | 4052899166103 | 600-1250 | 70 -210 | 180 | 240.5x60x38 |
| OT180W/UNV/800C/2DIMLT2/P6 | 4052899166097 | 350-800 | 82-280 | 180 | 240.5x60x38 |
| **IP > 54 - 4 DIM (DALI / StepDIM / AstroDIM / MainsDIM)** | | | | | |
| OT 40/120-277/1A0 4DIMLT2 E | 4052899925182 | 70-1050 | 18-56 | 40 | 123x79x33 |
| OT 60/170-240/1A0 4DIMLT2 E | 4052899925199 | 70-1050 | 30-115 | 60 | 133x77x40 |
| OT 90/170-240/1A0 4DIMLT2 E | 4052899925205 | 70-1050 | 57-186 | 90 | 133x77x40 |
| OT 165/170-240/1A0 4DIMLT2 E | 4052899925212 | 70-1050 | 90-285 | 165 | 173x100x40 |





## CONSTANT VOLTAGE DRIVERS

| Product | EAN | IP | Vout | Pout (W) | LxWxH (mm) |
|---|---|---|---|---|---|
| **24V DRIVERS** | | | | | |
| **Non-Dimmable** | | | | | |
| OTZ 24/220-240/24 | 4052899166059 | IP20 | 24 | 10-24 | 130x41x31 |
| OTZ 50/220-240/24 | 4052899182066 | IP20 | 24 | 20-50 | 190×46×32 |
| OT 80/220-240/24 P | 4008321981684 | IP67 | 24 | 0-80 | 250x50x34 |
| OT 120/220-240/24 P | 4008321981707 | IP67 | 24 | 0-120 | 250x60x39 |
| OTE 120/220-240/24 E | 4008321645715 | IP64 | 24 | 12-120 | 258x51.2x44.5 |
| OT 240/220-240/24 P | 4008321981721 | IP67 | 24 | 0-240 | 250x80x39 |
| **Analog (1-10V) Dimmable** | | | | | |
| OT 80/24 DIM P | 4008321981677 | IP67 | 24 | 0-80 | 250x50x34 |
| OT 120/24 DIM P | 4008321981691 | IP67 | 24 | 0-120 | 25x60x39 |
| OT 240/24 DIM P | 4008321981714 | IP67 | 24 | 0-240 | 250x80x39 |
| **DALI Dimmable** | | | | | |
| OTi DALI 50/220-240/24 1-4 CHDIM | 4052899452916 | IP20 | 24 | 0-50 | 346x32x22 |
| OTI DALI 75/220-240/24 1-4CHDIM | 4008321371560 | IP20 | 24 | 0-75 | 220x46.2x180 |
| OTI DALI 80/220-240/24 1-4 CH | 4052899452893 | IP20 | 24 | 0-80 | 345x32x22 |
| OTI DALI 50/220-240/24 TW | 4052899490772 | IP20 | 24 | 0-50 | 346x32x22 |
| OTI DALI 80/220-240/24 TW | 4052899490758 | IP20 | 24 | 0-80 | 347x32x22 |
| **12V DRIVERS** | | | | | |
| **Non-Dimmable** | | | | | |
| OTZ 24/220-240/12 | 4052899100879 | IP20 | 12 | 24 | 130x41x31 |
| OTZ 50/220-240/12 | 4052899185531 | IP20 | 12 | 50 | 190x46x32 |
| OTZ 75/220-240/12 | 4052899268166 | IP20 | 12 | 75 | 250×47×41.5 |
| OT 30/220-240/12 P | 4052899905542 | IP66 | 12 | 30 | 220x40x22 |
| OTE 60/110-277/12 E | 4008321794338 | IP64 | 12 | 60 | 241x43x30 |
| OT 60/220-240/12 P | 4008321790811 | IP67 | 12 | 60 | 180x50x34 |
| OT 120/220-240/12 P | 4008321790835 | IP67 | 12 | 120 | 250x60x39 |
| OTE 120/110-277/12 E | 4008321821263 | IP64 | 12 | 120 | 258x51.2x44.5 |
| **DIMMER INTERFACES** | | | | | |
| OTi DALI DIM | 4008321061195 | IP20 | 12/24 | 60/120 | 172x42x20 |
| OT DMX RGB DIM | 4008321160829 | IP20 | 12/24 | 72/144 | 172x42x20 |
| OT DIM | 4050300943459 | IP20 | 12/24 | 60/120 | 172x42x20 |

# Introduction

## All under control with Light Management Systems

### OSRAM light management systems (LMS)

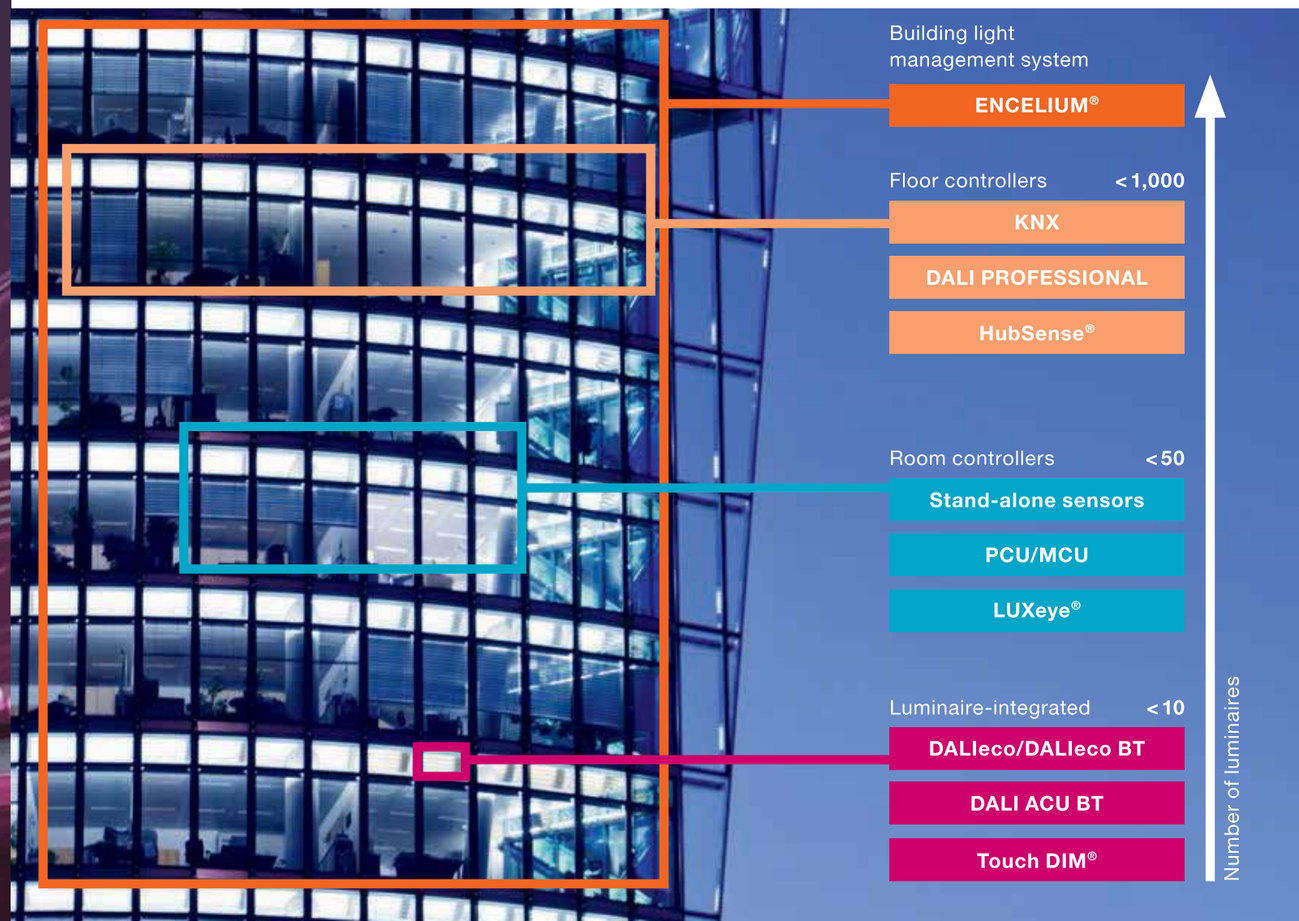
The increasing demand for lighting solutions for more and more energy saving, flexibility and individual customization options has dramatically changed lighting requirements. Having the right light brings a greater sense of well-being and boosts motivation. Light management systems from OSRAM enable you to implement a diverse range of dynamic lighting solutions in a simple and efficient way – from simple dimming to daylight simulation.

OSRAM provides individual light management systems (LMS) for many different applications:

- Luminaire-integrated solutions for autonomous luminaires
- Room controllers for fast and easy installation in multiple rooms
- Flexible floor controllers for connected light in medium-sized installations
- Powerful building light management system with data analytics for big installations

## OSRAM LMS Range

Introduction to Light Management Systems
LMS System Matrix
DALI Eco System
LUXeye® – the smart way of controlling light
Simple Manual Dimming Solutions: MCU
Standalone sensors
HubSense®
DALI Professional
ENCELIUM®



# Product highlights



**Bluetooth® enabled light controls**
New generation of OSRAM light controls with Bluetooth® interface

- **DALI ACU BT**
  Easy-to-install light controller for integration into luminaires and flush mounted boxes
- **DALIeco BT**
  Multi-functional luminaire-integrated light controller
- **LUXeye®**
  Stand-alone ceiling-integrated light controller



**HubSense®**

- Hybrid technology, design freedom
- Scalable for any building size
- Connected with data analytics
- Innovative and brandable user interface



**DALI PROFESSIONAL**
**Big feature update**

- App interface/configurator
- Tunable White control
- Human Centric Lighting (HCL) functions
- Color control functions
- Controller interconnectivity

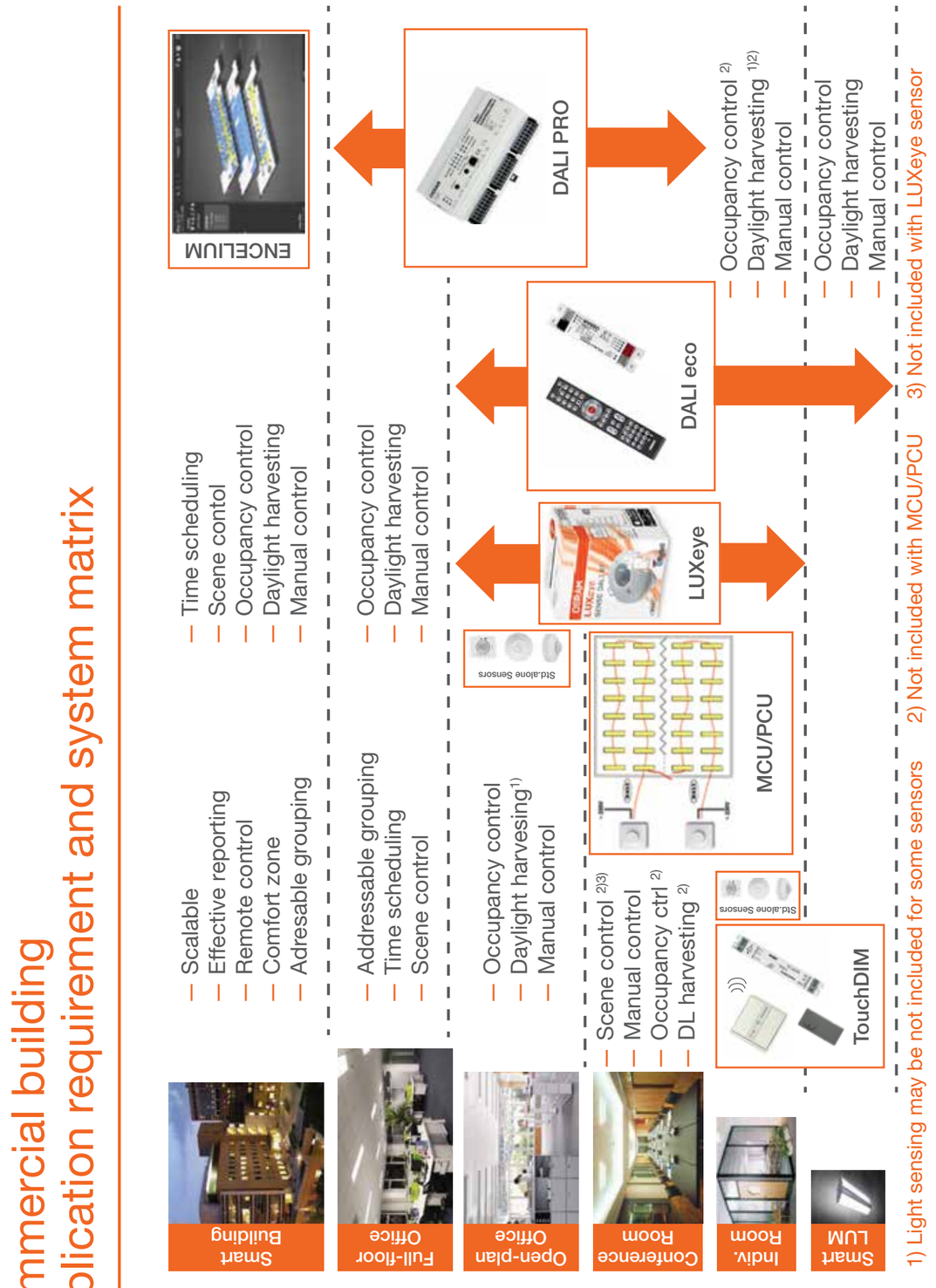


**FXS system**

- Wireless light control for 12V and 24V LED modules
- Bluetooth® Low Energy (BLE) app by Casambi
- Up to 240 W control in a four-channel device: White, Tunable White, RGB, RGBW







# Intelligent and powerful light management system for lighting groups

DALIeco is a light management system for easy integration into luminaires – from individual units to strip lighting.

2 DALI channels, 1-click setup, selectable lighting modes and remote-controllable extra functions – DALIeco offers a wide range of operation possibilities for intelligent energy-saving solutions. The modular system is setting standards in terms of flexibility in planning and installing a cost-efficient light management system. It can be used for lighting groups in small and medium-sized rooms and corridors. DALIeco is easy to operate and can be adapted perfectly to the relevant application using the configured remote control.

## Main benefits

### Flexible

The system components offer the possibility of direct luminaire integration as well as independent installation.

### Powerful

Up to 32 DALI ECGs, 10 sensors and any number of push buttons can be connected to a DALIeco controller.

### Intelligent

1-click setup enables fully automatic system calibration in accordance with the lighting regulations for workplaces.

### Easy

In the plug & play mode, DALIeco runs out of the box without programming. Integration of extension sensors and additional pushbuttons via the DALI lines is easy and installation-friendly.

### Convenient

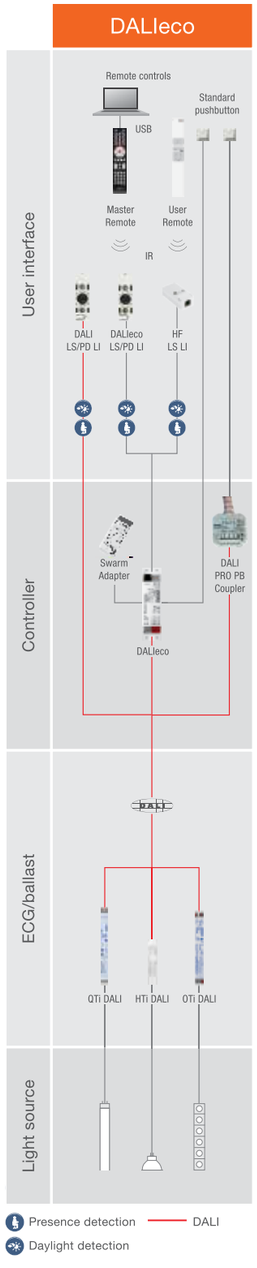
With an intuitive PC software with visualization possibility, individual function profiles can be created, transmitted to the remote control via USB and stored at the push of a button.

### Applications

- Offices: single and group workplaces
- Classrooms and training rooms
- Staircases and foyers
- Toilets and washrooms
- Corridors in factories and warehouses

The latest software can be found here:
www.osram.com/software

## System overview






# Easy setup thanks to new plug & play functions

The DALIeco system offers a wide range of different setups, now also including plug & play functions that do not require commissioning anymore.

### DALIeco as manual pushbutton control (no sensor connected)




- **New:** Storage of individual switch-on value by double-click
- **New:** Real plug & play, no commissioning required
- Manual dimming and switching of up to 32 ECGs
- Length of cable connection to the pushbuttons of up to 50 m, unlimited number of connectable pushbuttons

### DALIeco as manual 2-channel pushbutton control (no sensor connected)




- **New:** Manual dimming and switching of up to 2 x 16 ECGs
- **New:** Plug & play, activation of pushbutton control input for channel 2 by pressing both buttons for 10 sec simultaneously*
- Storage of individual switch-on value for each channel by double-click
- Length of cable connection to the pushbuttons of up to 50 m, unlimited number of connectable pushbuttons

### DALIeco for automatic lighting control of single luminaires/single offices




- **New:** Out-of-the-box daylight-dependent control by factory-preset set point
- **New:** Out-of-the-box automatic presence detection with a switch-off delay of 15 min
- **New:** Storage of an individual daylight set point by double-click
- Manual dimming and switching by directly connected pushbutton
- Length of cable connection to the pushbuttons of up to 50 m, unlimited number of connectable pushbuttons
- Plug & play for direct connection of up to 4 sensors to the control unit and up to 6 presence extension sensors via DALI**

* Deactivation of pushbutton control input for channel 2 by pressing both pushbuttons for 20 sec simultaneously
** The mains power has to be switched off before the connection/disconnection of new components (no hot plugging!)

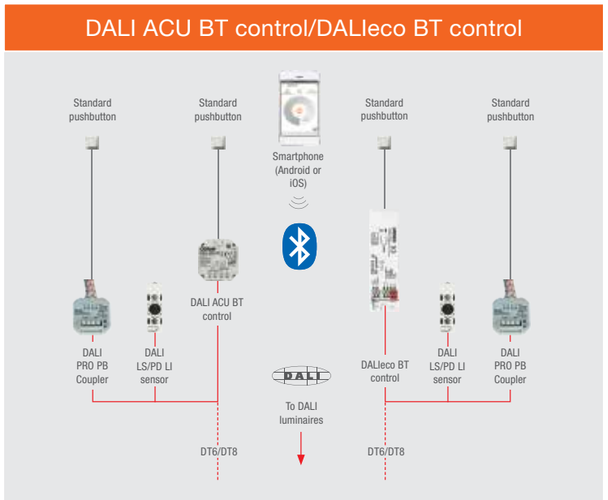
# All DALIeco products at a glance

| Product | EAN |
|---|---|
| DALIeco Control | 4008321988645 |
| DALIeco LS/PD LI | 4008321988652 |
| DALIeco LS/PD LI NP | 4052899914636 |
| DALIeco Remote PC KIT | 4052899195967 |
| User Remote | 4008321826435 |
| ECO CI KIT | 4008321392091 |
| LS/PD CI KIT | 4052899920293 |
| LS/PD AP KIT | 4052899173385 |

# Easy-to-use light management with Bluetooth® interface for smartphone control

DALI ACU BT and DALIeco BT

## System overview




## Applications

- Individual lighting and energy-saving light control at office workplaces
- Conference and meeting rooms
- Entrance areas
- Control of backlighting in signage or ambient lighting applications
- Presence-dependent lighting in corridors, staircases and sanitary rooms

For more details, go to
www.osram.com/btcontrol

| Product | EAN |
|---|---|
| DALIECO BT CONTROL | 4052899988781 |

- Light control with app connection via Bluetooth® for dimming, switching and changing of color temperature
- One DALI broadcast output channel
- Daylight-dependent regulation and presence-dependent control of light
- Connection of up to 4 OSRAM DALI sensors
- Operation via standard pushbutton
- Firmware update over-the-air via Bluetooth® possible

| Product | EAN |
|---|---|
| DALI ACU BT CON | 4052899544819 |

- Operation via standard pushbutton
- Combinable with OSRAM DALI presence and motion detectors
- Length of the DALI control cable: up to 300 m and pushbutton cable: up to 50 m
- Control of standard white or Tunable White light according to DALI device type 8 (DT8)





# LUXeye® – the smart way of controlling light

LUXeye® from OSRAM is an innovative, easy and robust light management system that makes your light smart. It has never been easier to connect light with a smartphone. LUXeye® can be controlled either via smart device or traditionally with a standard wall switch. It is more than just an energy saving tool, it is also highly flexible and convenient because you can control your light wirelessly from your desk.

LUXeye® Sense DALI BT | Light Management Systems



## Benefits

- Automatic start of light regulation after power-on (out of the box function)
- Basic functionality without configuration thanks to applied pre-settings
- Easy and fast customization of important parameters via screwdriver
- V(λ) corrected light sensor element
- Predefined and customizable configurations for all applications
- Password protection for user and configuration APP access
- Easy report generation of all commissioned sensors
- Easy report sharing via email
- DEMO Mode usable without device

| Product | EAN |
|---|---|
| LUXeye Sense DALI BT | 4052899957411 |

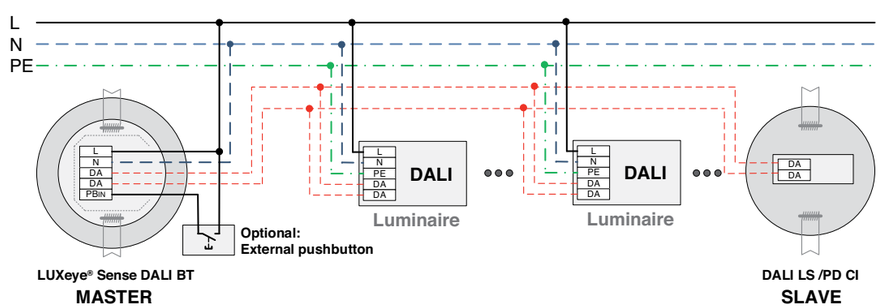
## Applications

- Offices
- Conference rooms
- Training rooms
- Corridors
- Surface mounting via LUXeye SENSE CM KIT

## Technical Features

- One DALI broadcast output channel
- Viewing angle 110°, 20-5000 lux max. installation height 5m
- Daylight-dependent regulation and presence-dependent control of light
- Operation via standard pushbutton
- Outputs with electronical reversible short-circuit and overload protection
- Change of delay time with screwdriver direct at the sensor
- Change of lighting intensity with screwdriver direct at the sensor
- Halogen free polycarbonate plastic housing
- Controller with integrated light and presence sensor, DALI output channel
- Presence detection via passive IR element
- Light control with app connection via Bluetooth
- Light control via smart phone

## Wiring Diagram




Bluetooth®

For more details, go to
www.osram.com/luxeye

# LUXeye® Sense 10A BT

## LUXeye® Sense 10A BT | Light Management Systems



### Benefits

- Automatic start of light regulation after power-on (Out of the box function)
- Basic functionality without configuration thanks to applied pre-settings
- Easy and fast customization of important parameter via screwdriver
- V(λ) corrected light sensor element
- Predefined and customizable configurations for all applications
- Password protection for user and configuration APP access
- Easy report generation of all commissioned sensors
- Easy report sharing via email
- DEMO Mode usable without device

| Product | EAN |
|---|---|
| LUXeye Sense 10A BT | 4052899957428 |
| LUXeye Sense CM KIT* | 4052899988729 |

*Equipment/Accessories: Ceiling Installation adaptar suitable for LUXeye Sense 10A BT, LUXeye Sense DALI BT

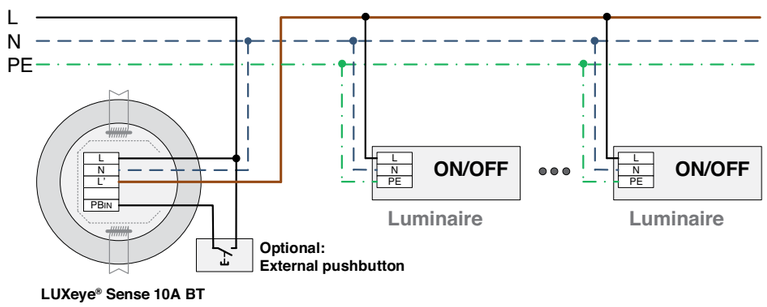
### Applications

- Offices
- Conference rooms
- Training rooms
- Corridors
- Surface mounting via LUXeye SENSE CM KIT

### Technical Features

- 10A output relay for ohmic, inductive and capacitive load
- Viewing angle 110°, 20-5000 lux max. installation height 5m
- Daylight-dependent switching and presence-dependent control of light
- Operation via standard pushbutton
- Outputs with electronical reversible short-circuit and overload protection
- Change of delay time with screwdriver direct at the sensor
- Change of switch off level with screwdriver direct at the sensor
- Halogen free polycarbonate plastic housing
- Controller with integrated light and presence sensor, relay, Bluetooth interface
- Presence detection via passive IR element
- Light control via smart phone
- Adjustment of all settings via smart phone

### Wiring Diagram











# Simple Manual Dimming Solutions: MCU

DALI MCU and DIM MCU rotary dimmers can be used to create extremely simple, functional and convenient manual dimming solutions.

### The benefi ts of MCU rotary dimmers:

- Can be integrated in many standard switch designs
- No addressing required, simple installation, intuitive operation
- Functions: on/off, fade up/down, set minimum background brightness
- Virtually universal use: classrooms, conference rooms, offices, control of luminaire groups and individual luminaires

### DALI MCU

- Digital rotary dimmer for up to 25 DALI ECGs
- Precise and ergonomic manual dimming of a wide range of light sources with the DALI interface
- Multiple control points and control of up to 100 luminaires by connecting up to 4 DALI MCUs in parallel
- Automatic synchronization enables other control points to be used at any time without the risk of annoying side effects such as sudden changes in brightness
- Plug & Play expansion with DALI Repeater
- Lighting control in partitioned rooms

### DIM MCU

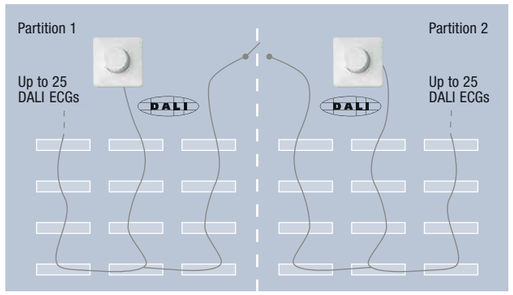
- Analog rotary dimmer with a 1…10 V interface
- Control of up to 100 ECGs from one control point
- Integrated 6 A switching contact



# MCU Product Overview

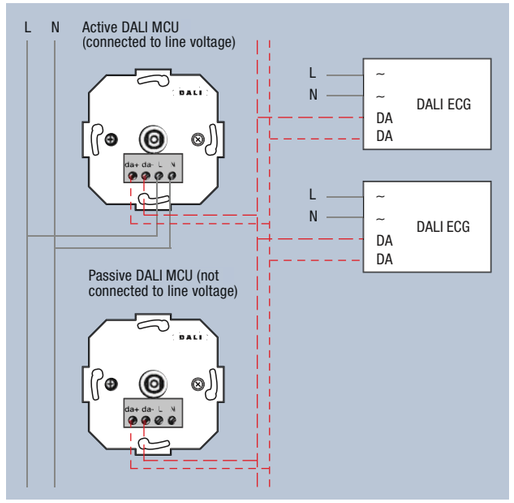
## Control of partitioned rooms with DALI MCU.

DALI MCU rotary dimmers allow easy control of lighting in partitioned rooms.




## Wiring diagram for DALI MCU.

- A maximum of 4 DALI MCUs can be connected in parallel, of which at least one is active
- Up to 25 DALI ECGs with one active DALI MCU
- Up to 100 DALI ECGs with 4 active DALI MCUs






| Product | EAN |
|---|---|
| DALI MCU | 4008321189721 |

## DALI MCU – digital rotary dimmer.

- Switch-on level and background brightness can be stored by double-clicking
- No individual DALI addressing required (DALI broadcast)
- Length of the DALI control cable: 300 meters
- Up to 4 control points can be easily provided
- Automatic synchronization between the control points
- Power consumtion: < 2W
- Up to 25 ECGs can be directly connected, flexible expansion using DALI Repeaters or further DALI MCUs
- Provided with cover and rotary switch in neutral white



| Product | EAN |
|---|---|
| DIM MCU | 4050300347424 |

## DIM MCU – analog rotary dimmer.

- Integrated 250 V/6 A switching contact for up to ten single-lamp ECGs or five double-lamp ECGs (can be expanded via external relay)
- Up to 100 ECGs with a 1-10V interface can be directly connected, flexible expansion possible with DIM SA signal amplifier
- Provided with cover and rotary switch in cream white





# DALI PCU | Light Management Systems




## Benefits

- Intuitive manual dimming and switching
- Integrated DALI supply
- Individual setting of minimal brightness level

## Applications

- Conference rooms
- Restaurants
- Shop lighting

| Product | EAN |
|---|---|
| DALI PCU | 4052899955622 |

## Technical Features

- Up to four DALI PCU can be connected in parallel to set up multiple control points
- Automatic synchronization between the control points
- Combinable with standard presence and motion detectors with mains contact
- Behavior after power failure configurable
- Length of the DALI control cable: up to 300 m

# DALI MCU Tunable White | Light Management Systems




## Benefits

- Intuitive manual dimming, switching and changing of colour temperature
- Individual setting of minimal brightness level
- Individual setting of colour temperature range

## Applications

- Conference rooms
- Restaurants
- Shop lighting
- Private homes

| Product | EAN |
|---|---|
| DALI MCU TW | 4052899465916 |

## Technical Features

- Up to 4 DALI MCUs can be connected in parallel to set up multiple control points
- Automatic synchronization between the control points
- Cover and rotary switch in neutral white
- Length of the DALI control cable: up to 300m

# Stand-Alone Sensors

## OSENZA™ -OFFICE





### Benefits

- Easy to install (No power pack needed)
- Minor (Φ= 5m) and major (Φ= 14m) motion detection
- Large detection area
- Adjustable lux level setting
- Adjustable sensitivity setting
- Adjustable time delaysetting
- Two mounting types available
  (External mounting and ceiling integration)

### Applications

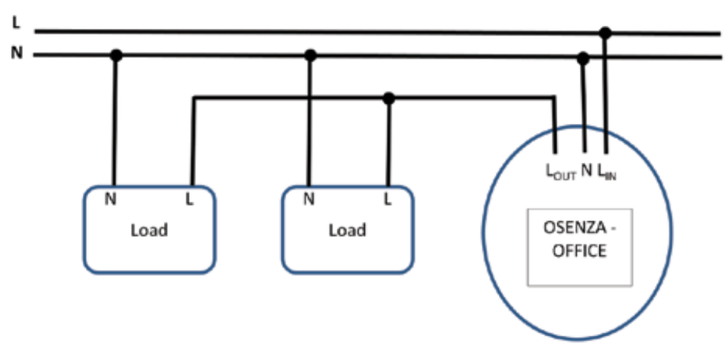
- Open office
- Canteen
- Garage
- Workshop
- Production line (lowbay)
- Labs (lowbay)
- Un-partitioned store room
- Corridor and staircase (External mounting)

| Product | EAN |
|---|---|
| OSENZA™ -OFFICE EXT | 4008321789426 |
| OSENZA™ -OFFICE CI | 4008321789402 |

### Technical Features

- Incandescent lamp, Resistive Load, Inductive Load (CCG), Capacitive Load (ECG)
- Automate the switching of light load by motion detection. With photo cell inside such that light will be ON when motion is being detected and the ambient light is lower than the pre-set value
- Ohmic load : 2000W, Capacitive Load (ECGs) : 600W , Inductive Load (CCGs) : 600W
- Two settings
  1. always ON (sun symbol)
  2. ON when lux level < around 10 to 200lux (moon symbol)
- Maximum radius : 7m (mounted at 2.4m height)
- 40000 times Switching Cycle

### Wiring Diagram








# Stand-Alone Sensors

## OSENZA™ -USENSE



### Benefits

- Easy to install (No power pack needed)
- Large detection area
- High sensitivity to detect minor motion like hand movement
- With adjustable lux level, time delay and sensitivity setting
- Two mounting types available
  (External mounting and ceiling integration)

### Applications

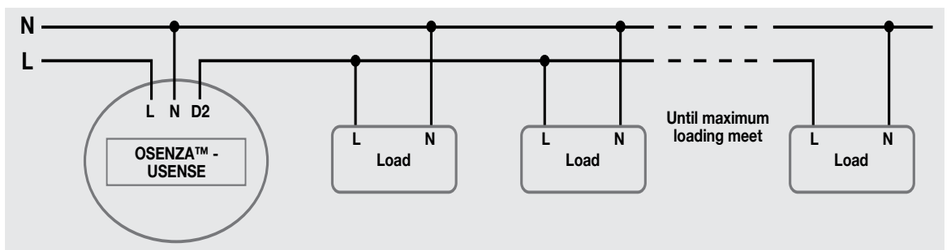
- Ideal for conference rooms, private office, group office, class room
- Restrooms
- Parking lots
- Libraries
- Warehouses

| Product | EAN |
|---|---|
| OSENZA™ -USENSE SURFACE MOUNT | 4008321865069 |
| OSENZA™ -USENSE FLUSH MOUNT | 4008321865083 |

### Technical Features

- Incandescent lamp, Resistive Load, Inductive Load (CCG), Capacitive Load (ECG)
- Ultrasonic presence detection with lux level setting range 10-1000 lux
- Incandescent lamp: max. 2000W, AC halogen lamp: max. 1000W, LV halogen lamp: max. 1000VA (600W), Fluorescent lamp: max. 900VA, Energy saving lamp: max. 600VA (400W), LED lamp: max. 500VA (400W)
- ACC settings
  1. ON : Activate air current compensation function
  2. OFF : Deactivate air current compensation function
- Detection area : $180^0$ adjustable upto 8m x 10m (mounted at 2.4m height)
- 40000 Switching Cycles

### Wiring Diagram



# FXS System - OT BLE DIM 12-24

12-24V Bluetooth Dimmer




| | |
|---|---|
| L | 172 mm |
| L1 | 164 mm |
| B | 42 mm |
| H | 20 mm |

## Benefits

- Adjust the luminous brightness; create scenes and groups, time set
- Remote controlled by CASAMBI APP
- Wireless installation on a mesh network

## Applications

- Shop & Hospitality
- Retails
- Hotels, Restaurant
- Museum
- Residential

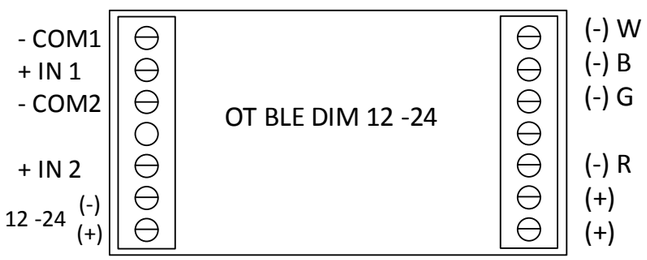
## Ordering Information

| Product | EAN 10 | EAN 40 | Pieces / Box |
|---|---|---|---|
| OT BLE DIM 12-24 | 4052899557833 | 4052899557840 | 20 |

## Protections

- Over temperature, Overload, Short-circuit, Input over voltage, Output overvoltage are demanded to the LED driver.
- Do not invert the polarity of input nor output cables to avoid damaging the device!

## Wiring




## Technical Features

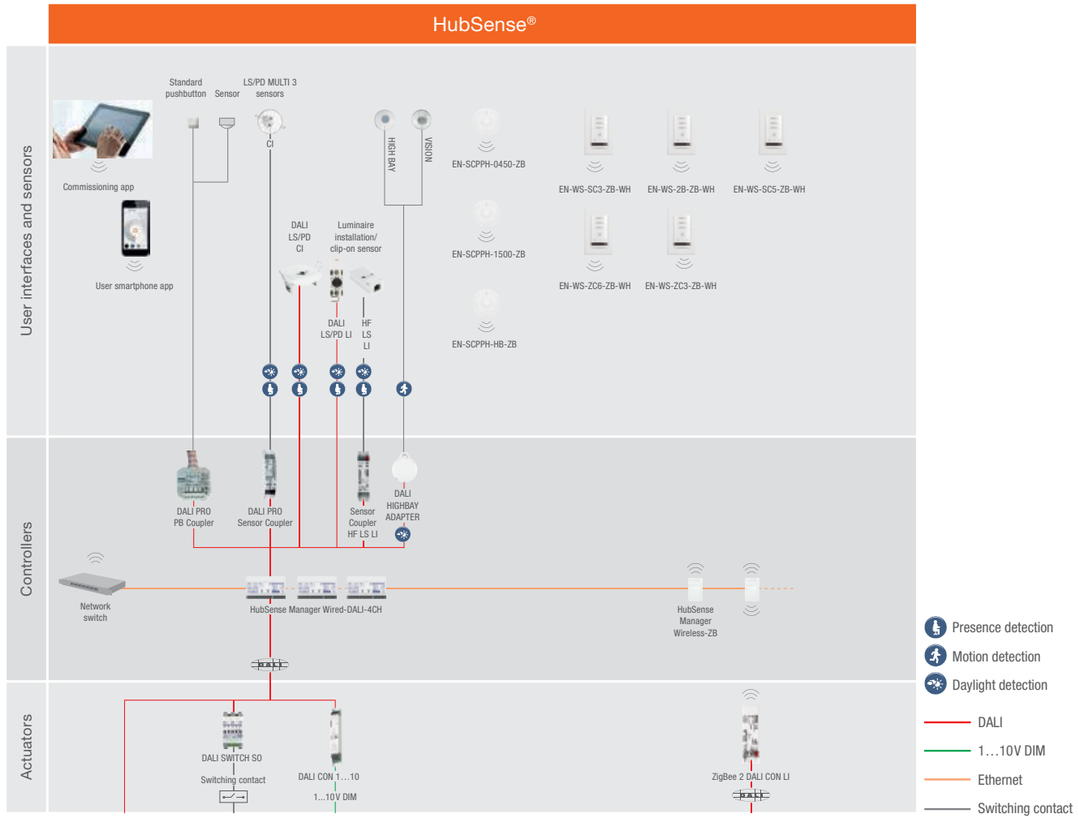
- 4 channels Bluetooth dimmer (BLE)
- Control up to 240 W LED load
- PWM Dimming range 0-100%
- 2 Dry contacts input for connection to any commercial push button
- Configuration: dimmer white, tunable white, color RGB, color RGBW
- Independent housing for ceiling installation
- Screw terminal blocks
- Overload protection*
- Over temperature protection*
- tc max = 65°C
- Wide ta range -10 … +40 °C
- 50’000 h lifetime at tc
- 5 years guarantee
- Remote controlled by CASAMBI





# HubSense®

The agile lighting control solution.



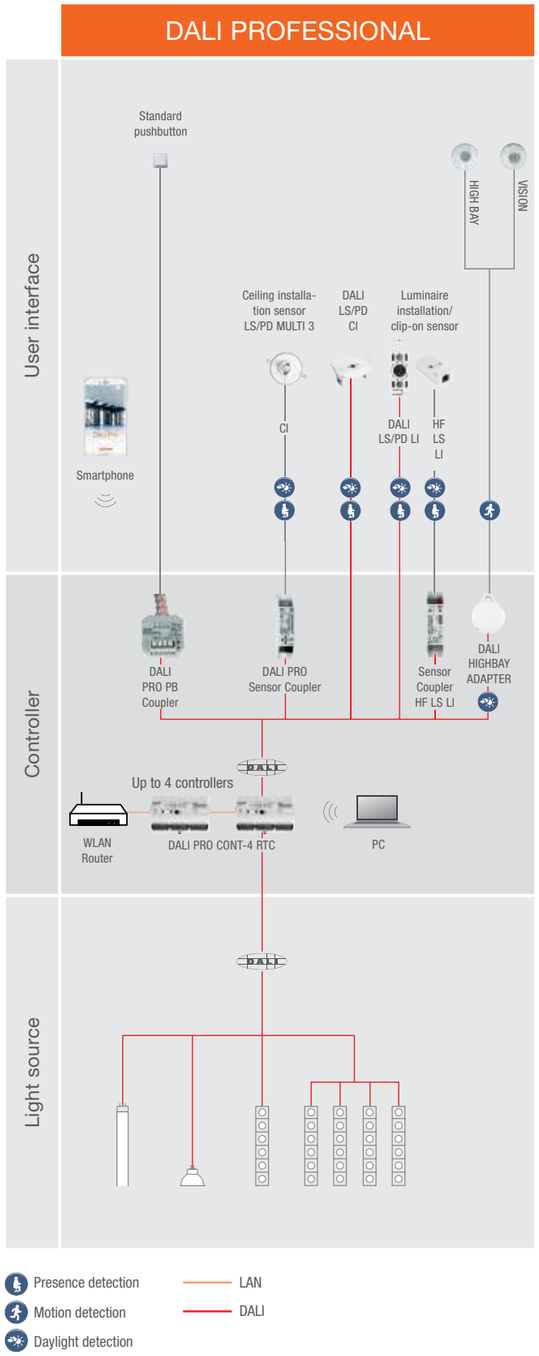

| Product | EAN |
|---|---|
| HubSense Manager Wired-DALI-4CH | 4052899989771 |
| HubSense Manager Wireless-ZB | 4052899989764 |

## System features

- DALI controller connected via network DALI/ZigBee
- Daylight-dependent regulation and presence-dependent control of light
- Intelligent scheduling, task-related lighting, preconfigured room lighting profiles
- Suitable for projects with up to 1,000 controllable light points
- Worldwide access and possibility of remote maintenance via Internet
- Initial software provided together with the hardware
- Upgradable software packages via licensing mechanism (see www.osram.com)
- Areas of application: Offices, Healthcare, Public buildings, Educational sector

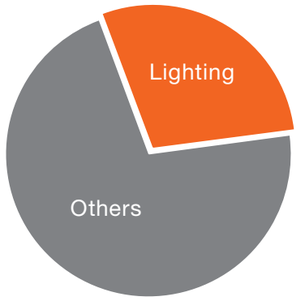
# Dali Professional

## System Overview




## OSRAM – your KNX lighting partner

Lighting represents one of the largest domains of KNX applications. For your projects, OSRAM offers a variety of solutions (source: BSRIA 2016).




### 1 Use cost-effi cient DALI devices in your project

- Fast integration of dimmable DALI devices and DALI sensors
- Luminaire information available via KNX (e.g. lamp status)

### 2 Use smart lighting in your KNX project to improve the light experience for you

- Control color and Tunable White DALI devices with KNX (e.g. HCL/TW with DT8)
- Retrieve real-time luminaire information in your KNX environment (e.g. operating hours, max. temperature power metering)
- Direct control lighting and more via smartphone/tablet

### 3 Connect your light to the Internet of Things (IoT)

- Light and KNX solutions will have connectivity to the cloud
- Cloud integration gives you, for example, the benefits of multibuilding benchmarking, space optimization and further applications beyond lighting
- OSRAM will also be your partner for KNX IoT solutions, providing secure cloud access and further services

Connectivity is one of the key elements of smart building solutions

KNX®

OSRAM: Your lighting partner for more than 110 years





# DALI PRO CONT-4 RTC

## Controllers for light management systems



### Applications

- Room control, floor control, daylight-dependent control
- Connection of light and presence sensors in DALI systems
- Conference rooms
- Offices: Individual and group workplaces
- Production and assembly facilities
- Suitable for indoor applications
- Large luminaire groups
- Industry
- Corridors
- Strip lighting
- Logistic centers
- Classrooms
- Sports halls
- Training rooms

| Product | EAN |
|---|---|
| DALI PRO Cont-4 RTC | 4008321710871 |

### Benefits

- Easy and intuitive control via App
- Control up to 1024 DALI ECGs via LAN interconnectivity
- Plug and Play preconfigured for instant use without any startup procedure
- Mains voltage interruption buffer battery
- All the luminaires in the system can be dimmed or switched
- Simple creation of scenes and sequences
- Switching and dimming of up to 256 DALI ECGs per DALI Professional control unit
- A setpoint for daylight-dependent control can be stored by double clicking
- Sensor integration in DALI
- Remote access/remote maintenance

### Features

- Interconnection of up to 4 DALI Professional control units
- Configuration via LAN/WLAN/USB
- RGB color sequences freely configurable upto 100 are programable, upto 50 color scenes per sequence
- Time-of-day-dependent color temperature adjustment (human centric lighting)
- Controller for 4 DALI lines
- Up to 50 pushbutton/sensor couplers can be integrated
- Integrated DALI supply
- 4 freely programmable switchover relays; load contact: 4x 5 A
- Daylight-dependent and/or presence-dependent or manual control
- Up to 4 x 16 groups can be controlled

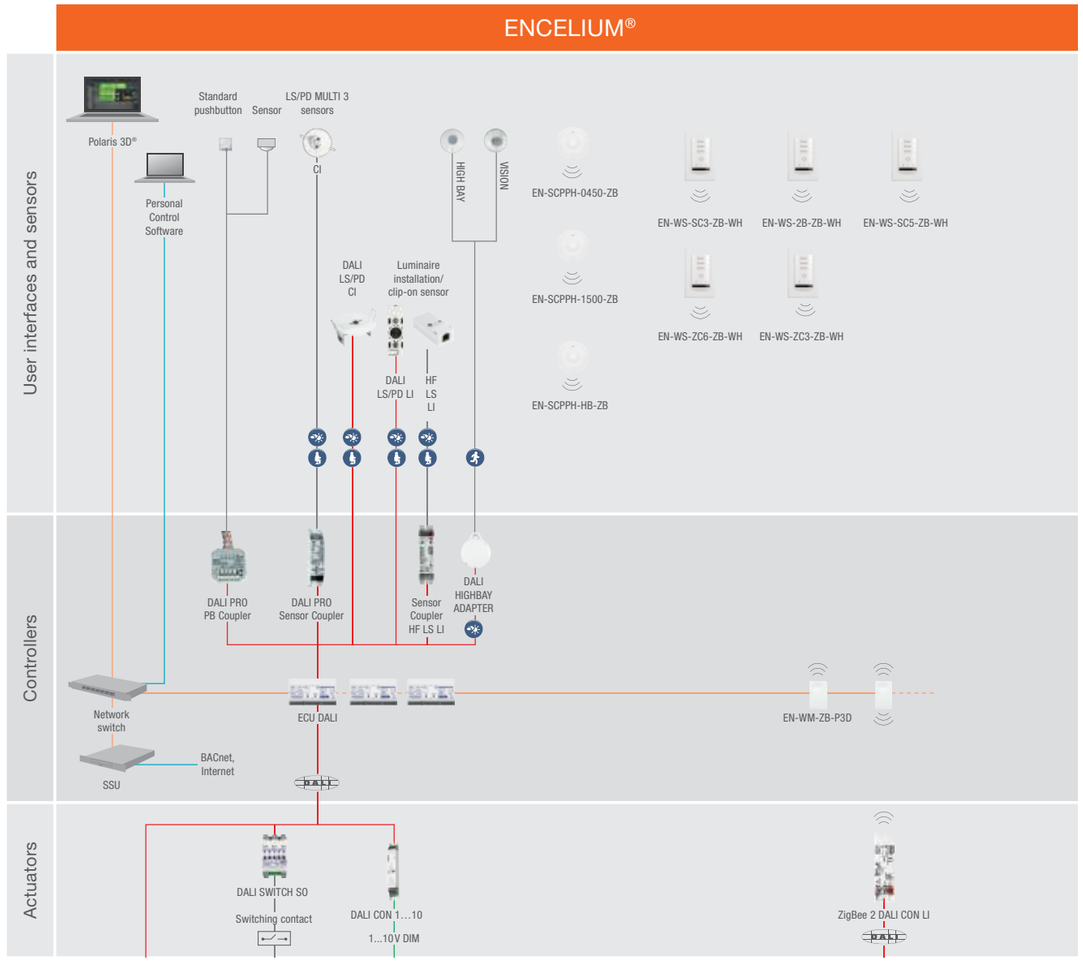
Download on the App Store

GET IT ON Google Play

**DALI Pro Control**

# ENCELIUM®

The holistic light management system for intelligent buildings








ENCELIUM® by OSRAM is a comprehensive light management system which facilitates energy saving in a very practical and versatile manner. The heart of the system, the innovative Polaris 3D™ software permits access to provide comprehensive control of the entire lighting system. Thanks to the scalability of the system architecture, ENCELIUM® can be used for buildings of any size and can easily be integrated in existing building management systems. In this way, you can change and optimize your lighting with just a few clicks of your mouse and you can prepare your building for the future.

Flexibility is one of the core characteristics of a light management system. Since it is compatible with DALI and ZigBee, and therefore with state-of-the-art lighting technologies, the ENCELIUM® system now allows any type of application no matter which constraints can be found in a project. All ENCELIUM® light management components, including planning and commissioning, are constituents of the comprehensive OSRAM solution. Encelium® offers more flexibility, more control and more energy savings. BACnet® compatible for easy integration with other building automation systems, such as HVAC, fire and security.

Winner – Controls Product of the Year – ENCELIUM® Wireless

## ENCELIUM® Polaris 3D



ENCELIUM® Polaris 3D® is the central control software application used to commission, configure, and manage the ENCELIUM® EMS. It enables configuration of every system parameter in a building for each individual user or space and establishes the baseline settings. The ENCELIUM® Polaris 3D software offers enhanced ability to analyze and update lighting layouts from an intuitive and easy-to-use computer interface. This brings lighting control to a whole new level, by giving facility managers the ability to easily control individual luminaires, groups of luminaires, entire floors, or even entire buildings right from their desktop or laptop.

The ENCELIUM® Polaris 3D® software has the ability to display and communicate energy savings in a variety of formats for any specified period of time. Reports generated can focus on an entire building all the way down to an individual luminaire, show overall savings or be broken down by energy management strategy. This type of granular control can help identify lighting-related inefficiencies or operational anomalies anywhere in a facility.

### Features & Benefits

- Intuitive, user-friendly software that shows an interactive, 360° 3D building view
- Generates real-time energy savings data in formats ranging from kWh to dollars
- Provides users with the ability to easily adjust lighting layouts without physical rewiring of your multi-facility campus
- Change set points and time schedules for multiple zones as desired right from your web browser
- Easy detection of lighting status, consumption and energy trends from colorized lighting system data representation

### Smart control strategies

The ENCELIUM® Energy Management System (EMS) is the only lighting control system that seamlessly employs these energy management strategies simultaneously.

- Smart time scheduling
- Daylight harvesting
- Task Tuning
- Occupancy Control
- Variable Load Shedding
- Personal Control
- Plug Load Control

The ENCELIUM® EMS provides maximum energy savings when combining the above smart control strategies as well as other energy savings techniques. It can be integrated with other building management systems including HVAC, shade control and fire alarm systems for further controllability. Further savings can be generated through controlling emergency lighting. This system is continually upgraded to integrate new features and strategies to maximize controllability now and into the future.

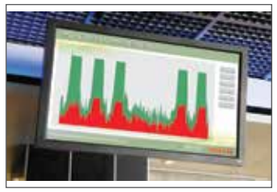
# ENCELIUM® Hardware

| | Function | Description |
|---|---|---|
| **System Support Unit (SSU)**  | Acts as the database server for all data related to an ENCELIUM® system. | – Stores all system settings & parameters, logs historical data regarding operational and energy saving results.<br>– Provides the ability to remotely access the ENCELIUM® system in order to change system settings or configurations, analyze system performance and energy data, and troubleshoot any problems. |
| **Energy Control Unit (ECU)**   | Collects information from photo sensors, occupancy sensors, and wall mounted lighting controllers. | – Adjusts appropriate brightness levels and ON/OFF status for each luminaire and zone.<br>– Determines what action to take based on status signals from sensors. |
| **Wireless Manager (WM)**  | Collects information from sensors and wallstations. | – Adjusts appropriate brightness levels and ON/OFF status for each luminaire and zone.<br>– Determines what action to take based on status signals from sensors. |
| ENCELIUM GreenBus II® **Communication Network**  | Provides low voltage power to all devices on the network eliminating the need for external power supplies. | – Enables cost effective, individual dimming control of thousands of luminaires in a building.<br>– Integrates peripheral devices such as occupancy sensors, photo sensors, wallstations and lighting controllers…etc.<br>– Originates at an Energy Control Unit and typically propagates in a daisy-chain fashion from device to device.<br>– Integrates wired devices into a wireless system to create a hybrid system. |
| **Sensors**  | Collects information from lighted space on occupancy or daylight. | – Collects occupancy and daylight information using Passive Infra-Red (PIR) wireless sensors with integral photosensor.<br>– Collects occupancy information using PIR or dual tech (PIR/Ultrasonic) wired sensors with wall or ceiling mount options.<br>– Allows sensor settings to be adjusted through Polaris 3D™ Software for maximum savings. |





| | Function | Description |
|---|---|---|
| **Three-Scene Wallstation**  | Provides customized light level control for a single lighting zone. | – Allows the user to select three pre-programmed light levels or “scenes” for a single zone by the push of a button.<br>– Scene configuration is programmed and changed through the ENCELIUM® Polaris 3D™ software.<br>– Available in ENCELIUM® GreenBus II™ or wireless models. |
| **Three-Zone Wallstation**  | Provides ON/OFF switching for up to three lighting zones configured through the ENCELIUM® Polaris 3D™ software. | – “Activates” or “de-activates” a lighting zone indicated by an LED display with white indicating ON and blue indicating OFF.<br>– Where lighting zones are controlled by a time schedule, this wallstation can override the time schedule by simply “re-activating” the zone about to be shut down.<br>– Available in ENCELIUM® GreenBus II™ or wireless models. |
| **Two Button Wallstation**  | Provides local ON/OFF and dimming control for a single zone configured through the ENCELIUM® Polaris 3D™ software. | – A short press of the upper/lower buttons turns lighting ON/OFF while a “press and hold” dims lighting up or down.<br>– Where lighting zones are controlled by a time schedule, this wallstation can override the time schedule by the press of the upper button which “re-activates” the zone about to be shut down.<br>– Available in ENCELIUM® GreenBus II™ or wireless models. |
| **ENCELIUM® Polaris 3D®**  | Web-based application, featuring an interactive three-dimensional view of a building or complex in real-time. | – Facility managers are now able to see an entire facility or complex in a convenient 3D™ snapshot allowing for faster and easier navigation to desired control zones.<br>– Provides an enhanced user experience and allowing access to the system from a web browser. |
| **Personal Control Software (PCS)**  | Application which enables individuals in a building to control lighting levels in their workspace from their own desktop PC. | – User can control and preset the light levels of each luminaire or group of luminaires in their workspace.<br>– PCS is installed on a user’s local computer and can be accessed by clicking on a light bulb icon appearing in the system tray found on the lower right hand side of the PC screen. |

| | Function | Description |
|---|---|---|
| Carbon Watch Software<br> | Displays the energy and carbon reduction performance of a building controlled by the ENCELIUM® EMS. | – CarbonWatch is a slide show that can be customized to show sustainability data, highlight corporate initiatives and foster awareness for lighting conservation.<br>– The CarbonWatch software runs off a network connection to the ENCELIUM® EMS. |
| BACnet Interface Module<br> | Enables the integration of the ENCELIUM® EMS with any BACnet compatible building automation system. | – The ENCELIUM® EMS operates autonomously while lighting status, light levels and energy usage are all shared and can be controlled via BACnet.<br>– Connects to HVAC, fire, and security systems. |
| AV Interface<br> | Resides on SSU, allowing the integration of audio-visual systems to the ENCELIUM® EMS. | – Allows various scenarios for a given space by changing lighting, audio and visual to achieve a desired atmosphere.<br>– In many cases, these scenarios can be recalled through an interactive touch screen. |





## Notes

## Notes

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