OSRAM

BX-M-PL 830

BoxLED M Plus G3 | LED modules for light advertising and backlighting

Product family features

- Chain of 32 linear LED modules
- Connected with flexible cables
- Maximum length of one chain: 9.60 m
- Type of protection (modules): IP66/IP68
- CE marked, ENEC certified, UL recognized component
- Fully integrated heat sink

Product family benefits

- Modules are compatible with the BoxLED mounting profile
- Uniform illumination thanks to optimized elliptical lenses
- Several options for quick and simple mounting: bolting or snap-in
- Excellent module efficacy
- Consistent white light (Standard Deviation of Color Matching SDCM: < 3)
- Very long lifetime
- ENEC certified
- 5 year guarantee

Areas of application

- Signage and illuminated advertising
- Illumination of single and double-sided light boxes
- Permanent outdoor use in enclosed light boxes

Product datasheet

Electrical data

Nominal voltage	24.0 V
Nominal wattage per chain	96.00 W
Nominal wattage per LED module	3.0 W
Rated wattage	96.00 W
Accidental reverse input voltage protection up to	25 V
Input voltage range	23...25 V
Type of current	DC

Photometrical data

Rated color temperature	3000 K
Light color (designation)	Warm White
Light color LED	White
Total useful luminous flux	6311 lm
Luminous flux per module chain	9760 lm
Luminous flux per LED module	305 lm
Nominal useful luminous flux 90°	6311 lm
Rated useful luminous flux 90°	6311 lm
Luminous efficacy	102/88.5 lm/W [1]
Rated peak intensity	461 cd
Standard deviation of color matching	≤3 sdcm
Color temperature	3000 K
Color rendering index Ra	>80

[1] Cool conditions (Tc = 25 °C) / Steady state (Ta = 25 °C)

Light technical data

Starting time	0.0 s
Warm-up time (60 %)	0.10 s

LED module information

Number of LEDs per module	12
Number of LED modules per chain	32
Minimum operable number of LED modules	1

Dimensions & weight
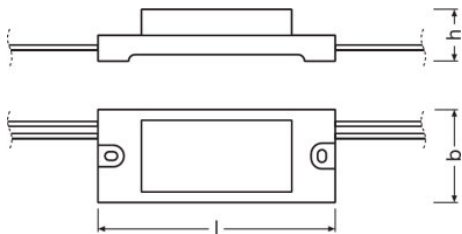
Construction length	9600.0 mm
Rated width	35.0 mm
Rated height	19.50 mm
Product weight	1600.00 g
Length	90.0 mm
Width	35.0 mm
Height	19.5 mm
Module length	45.5 mm
Module pitch	174 mm

Temperatures & operating conditions

Temperature range in operation at Tc point	-25...55 °C
Temperature range at storage	-25...85 °C

Lifespan

Lumen main.fact.at end of nom.life time	0.70
Nominal lamp life time	50000 h
Rated lamp life time	50000 h
Number of switching cycles	15000

Additional product data

Product datasheet

Product remark	Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information (see www.osram.com/led-systems)./All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

Capabilities

Dimming range	1...100 %

Certificates & standards

Energy consumption	1 kWh/1000h
Type of protection	IP66/IP68
Standards	Acc. to IEC 62471/Acc. to IEC 60598-1/Acc. to EN 60529/Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61547/ENEC
Approval marks – approval	CE / ENEC / UL recognized component
Energy efficiency class of the contained light source	G

Logistical data

Commodity code	94054231000

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	16-08-2023
Primary Article Identifier	4052899493193
Candidate List Substance 1	No declarable substances contained
Declaration No. in SCIP database	No declarable substances contained

Product datasheet

484525_5 Year Osram Guarante
(GB)

Equipment / Accessories

- Several types of OPTOTRONIC 24 V power supplies available
- BoxLED mounting profile BX-MP

Download Data

	File
	User instruction User Instruction BoxLED M Plus G3
	Brochures Technical application guide BackLED and BoxLED portfolio (EN)
	Certificates ENEC Certificate BoxLED M Plus G3
	Certificates UL Certificate BX-M-PL G3 and BXI-L-PL G3
	Declarations of conformity Manufacturer declaration BoxLED M Plus G3
	Declarations of conformity Declaration of conformity BoxLED M Plus G3
	CAD data CAD Data BoxLED M Plus G3 IGS
	CAD data 3-dim CAD Data BoxLED M Plus G3 STEP
	CAD data PDF CAD PDF BoxLED M Plus G3
	Eulumdat Eulumdat BoxLED M Plus G3 LDT
	IES data Eulumdat BoxLED M Plus G3 IES

Product datasheet

Ecodesign regulation information:

- This product is considered to be a "containing product" in the sense of Regulations (EU) 2019/2020 and (EU) 2019/2015.
- Tolerances of the reported values, are according to LED Modules Performance standard IEC/EN 62717.
- In general, the replacement of the contained light sources without permanent damage to the product with the use of common available tools is possible in the final application when they can be dismantled from the installation environment and substituted for the necessary number of light sources restoring its full electrical/mechanical/thermal/optical functionality by means of a professional installer.
- Dismantling of light sources from containing products at end of life: Containing products with light sources which are scalable in length can be cut to the length of the contained light source and if applicable mechanically detached from protective and/or optical covers. Containing products shall be separated from building material and/or from other additional mounting accessories by means of a professional installer.Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899493193	BX-M-PL 830	Shipping carton box 5	423 mm x 260 mm x 353 mm	38.82 dm³	10295.00 g

— The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

For more information on the multi-level guarantee and the terms and conditions of the guarantee visit https://
▶ www.inventronics-light.com/multilevel-guarantees

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.