

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 family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Nominal wattage per chain	Nominal wattage per LED module	Rated wattage	Accidental reverse input voltage protection up to	Input voltage range
BX-M-PL 830 ¹⁾	24.0 V	96.00 W	3.0 W	96.00 W	25 V	23...25 V
BX-M-PL 840 ¹⁾	24.0 V	96.00 W	3.0 W	96.00 W	25 V	23...25 V
BX-M-PL 865 ¹⁾	24.0 V	96.00 W	3.0 W	96.00 W	25 V	23...25 V

Product description	Type of current
BX-M-PL 830 ¹⁾	DC
BX-M-PL 840 ¹⁾	DC
BX-M-PL 865 ¹⁾	DC

¹⁾ See product remark

Photometrical data

Product description	Color temperature	Light color (designation)	Light color LED	Total useful luminous flux	Luminous flux per module chain	Luminous flux per LED module	Nominal useful luminous flux 90°
BX-M-PL 830 ¹⁾	3000 K	Warm White	White	6311 lm	9760 lm	305 lm	6311 lm
BX-M-PL 840 ¹⁾	4000 K	Neutral White	White	6691 lm	10200 lm	318.75 lm	6691 lm
BX-M-PL 865 ¹⁾	6500 K	Cool White	White	6441 lm	10200 lm	318.75 lm	6641 lm

Product description	Rated useful luminous flux 90°	Luminous efficacy	Rated peak intensity	Standard deviation of color matching
BX-M-PL 830 ¹⁾	6311 lm	102/88.5 lm/W ²⁾	461 cd	≤3 sdcM
BX-M-PL 840 ¹⁾	6691 lm	106/92 lm/W ²⁾	485 cd	≤3 sdcM
BX-M-PL 865 ¹⁾	6641 lm	106/92 lm/W ²⁾	499 cd	≤3 sdcM

¹⁾ See product remark

²⁾ Cool conditions (T_c = 25 °C) / Steady state (T_a = 25 °C)

Product family datasheet

Light technical data

Product description	Starting time	Warm-up time (60 %)
BX-M-PL 830 ¹⁾	0.0 s	0.10 s
BX-M-PL 840 ¹⁾	0.0 s	0.10 s
BX-M-PL 865 ¹⁾	0.0 s	0.10 s

¹⁾ See product remark

LED module information

Product description	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules
BX-M-PL 830 ¹⁾	12	32	1
BX-M-PL 840 ¹⁾	12	32	1
BX-M-PL 865 ¹⁾	12	32	1

¹⁾ See product remark

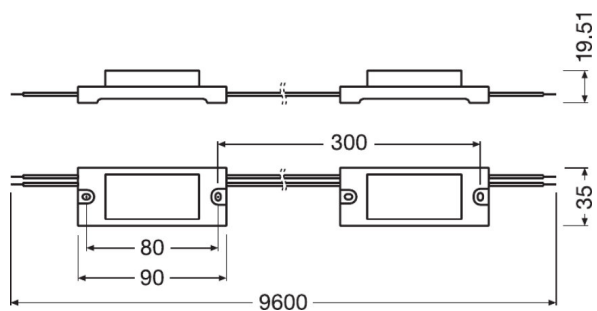
Dimensions & weight

Product description	Construction length	Rated width	Rated height	Product weight
BX-M-PL 830 ¹⁾	9600.0 mm	35.0 mm	19.50 mm	1600.00 g
BX-M-PL 840 ¹⁾	9600.0 mm	35.0 mm	19.50 mm	1600.00 g
BX-M-PL 865 ¹⁾	9600.0 mm	35.0 mm	19.50 mm	1600.00 g

¹⁾ See product remark

Product family datasheet

Product line drawing



BX-M-PL 830, BX-M-PL 840, BX-M-PL 865

Temperatures & operating conditions

Product description	Temperature range in operation at Tc point	Temperature range at storage
BX-M-PL 830 ¹⁾	-25...55 °C	-25...85 °C
BX-M-PL 840 ¹⁾	-25...55 °C	-25...85 °C
BX-M-PL 865 ¹⁾	-25...55 °C	-25...85 °C

¹⁾ See product remark

Lifespan

Product description	Lumen main. fact. at end of nom. life time	Nominal lamp life time	Rated lamp life time	Number of switching cycles
BX-M-PL 830 ¹⁾	0.70	50000 h	50000 h	15000
BX-M-PL 840 ¹⁾	0.70	50000 h	50000 h	15000
BX-M-PL 865 ¹⁾	0.70	50000 h	50000 h	15000

¹⁾ See product remark

Product family datasheet

Capabilities

Product description	Dimming range
BX-M-PL 830 ¹⁾	1...100 %
BX-M-PL 840 ¹⁾	1...100 %
BX-M-PL 865 ¹⁾	1...100 %

¹⁾ See product remark

Certificates & standards

Product description	Energy consumption	Type of protection	Standards
BX-M-PL 830 ¹⁾	1 kWh/1000h	IP66/IP68	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
BX-M-PL 840 ¹⁾	1 kWh/1000h	IP66/IP68	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
BX-M-PL 865 ¹⁾	1 kWh/1000h	IP66/IP68	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

¹⁾ See product remark

Logistical data

Product description	Commodity code
BX-M-PL 830 ¹⁾	94054231000
BX-M-PL 840 ¹⁾	94054231000
BX-M-PL 865 ¹⁾	94054231000

¹⁾ See product remark

Product family datasheet

Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
BX-M-PL 830 ¹⁾	16-08-2023	4052899493193	No declarable substances contained
BX-M-PL 840 ¹⁾	16-08-2023	4052899493179	No declarable substances contained
BX-M-PL 865 ¹⁾	16-08-2023	4052899493155	No declarable substances contained

Product description	Declaration No. in SCIP database
BX-M-PL 830 ¹⁾	No declarable substances contained
BX-M-PL 840 ¹⁾	No declarable substances contained
BX-M-PL 865 ¹⁾	No declarable substances contained

¹⁾ See product remark

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

Equipment / Accessories

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

Application advice












For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Product family datasheet

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

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.

Product family datasheet

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 dm ³	10295.00 g
4052899493179	BX-M-PL 840	Shipping carton box 5	423 mm x 260 mm x 353 mm	38.82 dm ³	10295.00 g
4052899493155	BX-M-PL 865	Shipping carton box 5	423 mm x 260 mm x 353 mm	38.82 dm ³	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.

Accessories Optional

Product description	Accessory name	Accessory code
BX-M-PL 830	BX -MP	▶ 4008321981110
BX-M-PL 840	BX -MP	▶ 4008321981110
BX-M-PL 865	BX -MP	▶ 4008321981110

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.