OSRAM

BA-M-PL 840 HO

BackLED M Plus HO G1 | LED modules for light advertising and backlighting

Product family features

- Connected with flexible cables
- Type of protection (modules): IP66
- Color rendering index R_a: > 80
- CE marked and UL listed
- Lifetime (L70/B50): 50,000 h
- Cable: available in two lengths to suit luminaire design

Product family benefits

- Uniform illumination at high LED pitches thanks to Square Lens technology
- Modules are compatible with BackLED mounting profile
- Significantly better application efficiency compared to systems without lenses
- Several options for quick and simple mounting: bolting or snap-in
- Consistent white light (Standard Deviation of Color Matching SDCM: < 3)
- ENEC certified
- 5 year guarantee

Areas of application

- Signage and illuminated advertising
- Backlighting of small and/or flat channel letters
- Backlighting of single and double-sided light boxes
- Permanent outdoor use in enclosed light boxes or channel letters

Technical data

Electrical data

Nominal voltage	12.0 V
Nominal wattage per chain	34.00 W
Nominal wattage per LED module	0.85 W
Accidental reverse input voltage protection up to	13 V
Input voltage range	12...13 V
Type of current	DC

Photometrical data

Color temperature	4000 K
Color rendering index Ra	80
Light color (designation)	Neutral White
Light color LED	White
Luminous flux per module chain	3600 lm
Luminous flux per LED module	90 lm
Luminous efficacy	106/98 lm/W [1]
Standard deviation of color matching	≤3 sdcm

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

LED module information

Number of LEDs per module	3
Number of LED modules per chain	40
Minimum operable number of LED modules	1

Dimensions & weight

Length	52.0 mm [1]
Width	12.0 mm

Product datasheet

Height	7.1 mm
Product weight	290.00 g

[1] Maximum LED pitch 200 mm

Temperatures & operating conditions

Temperature range in operation at Tc point	-25...75 °C [1]
Temperature range at storage	-25...85 °C

[1] At the T_c point

Lifespan

Lifespan	50000 h [1]

[1] L70/B50 at Tc 75 °C

Additional product data

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
Successor EAN	4062172183475

Capabilities

Dimming range	1...100 %

Certificates & standards

Energy consumption	38 kWh/1000h
Type of protection	IP66
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 / UL listed / ENEC
Energy efficiency class of the contained light source	G

Logistical data

Commodity code	85395100000

Environmental information

Product datasheet

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	21-07-2023
Primary Article Identifier	4052899504721
Candidate List Substance 1	No declarable substances contained
Declaration No. in SCIP database	No declarable substances contained

484525_5 Year Osram Guarante
(GB)

Equipment / Accessories

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- BackLED mounting profile BA-SM-MP
- Several types of OPTOTRONIC 12 V power supplies available

Download Data

	File
📄	User instruction 730347_User instruction BackLED L M S Plus
📄	Brochures Technical application guide BackLED and BoxLED portfolio (EN)
📄	Certificates ENEC Certificate
📄	Declarations of conformity Manufacturer declaration BACKLED S_M
📄	Declarations of conformity BACKLED S M family CE 325040 11 240723
🖥	CAD data CAD Data IGS BackLED M Plus HO G1
🖥	CAD data 3-dim STEP file BA-M-PL HO G1

Product datasheet

	CAD data 3-dim	CAD Data STEP BackLED M Plus HO G1
	CAD data PDF	652652_CAD Daten BA-M-PL G15_pdf
	Eulumdat	Eulumdat file BA-M-PL 840 HO G1
	Eulumdat	Eulumdat BA-M-PL 840 HO G1
	IES data	IES Data BA-M-PL 840 HO G1

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
4052899504721	BA-M-PL 840 HO	Shipping carton box 5	460 mm x 389 mm x 118 mm	21.11 dm³	2917.00 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
BA-M-PL 840 HO	BA -SM-MP	▶ 4052899264540

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.

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