

## 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



## Product family datasheet

### Technical data

#### Electrical data

Product description	Nominal voltage	Nominal wattage per chain	Nominal wattage per LED module	Accidental reverse input voltage protection up to	Input voltage range	Type of current
BA-M-PL 840 HO <sup>1)</sup>	12.0 V	34.00 W	0.85 W	13 V	12...13 V	DC
BA-M-PL 865 HO <sup>1)</sup>	12.0 V	34.00 W	0.85 W	13 V	12...13 V	DC

<sup>1)</sup> See product remark

#### Photometrical data

Product description	Color temperature	Color rendering index Ra	Light color (designation)	Light color LED	Luminous flux per module chain	Luminous flux per LED module	Luminous efficacy
BA-M-PL 840 HO <sup>1)</sup>	4000 K	> 80	Neutral White	White	3600 lm	90 lm	106/98 lm/W <sup>2)</sup>
BA-M-PL 865 HO <sup>1)</sup>	6500 K	> 80	Cool White	White	3600 lm	90 lm	106/98 lm/W <sup>2)</sup>

Product description	Standard deviation of color matching
BA-M-PL 840 HO <sup>1)</sup>	≤3 sdcn
BA-M-PL 865 HO <sup>1)</sup>	≤3 sdcn

<sup>1)</sup> See product remark

<sup>2)</sup> Cool conditions (T<sub>c</sub> = 25 °C) / Steady state (T<sub>a</sub> = 25 °C)

#### Light technical data

Product description	Beam angle
BA-M-PL 840 HO <sup>1)</sup>	155 °
BA-M-PL 865 HO <sup>1)</sup>	155 °

<sup>1)</sup> See product remark

## Product family datasheet

### LED module information

Product description	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules
BA-M-PL 840 HO <sup>1)</sup>	3	40	1
BA-M-PL 865 HO <sup>1)</sup>	3	40	1

<sup>1)</sup> See product remark

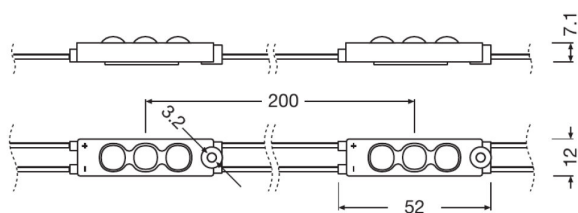
### Dimensions & weight

Product description	Length	Width	Height	Product weight
BA-M-PL 840 HO <sup>1)</sup>	52.0 mm <sup>2)</sup>	12.0 mm	7.1 mm	290.00 g
BA-M-PL 865 HO <sup>1)</sup>	52.0 mm <sup>2)</sup>	12.0 mm	7.1 mm	290.00 g

<sup>1)</sup> See product remark

<sup>2)</sup> Maximum LED pitch 200 mm

### Product line drawing



BA-M-PL 840 HO, BA-M-PL 865 HO

## Product family datasheet

### Temperatures & operating conditions

Product description	Temperature range in operation at T <sub>c</sub> point	Temperature range at storage
BA-M-PL 840 HO <sup>1)</sup>	-25...75 °C <sup>2)</sup>	-25...85 °C
BA-M-PL 865 HO <sup>1)</sup>	-25...75 °C <sup>2)</sup>	-25...85 °C

<sup>1)</sup> See product remark

<sup>2)</sup> At the T<sub>c</sub> point

### Lifespan

Product description	Lifespan
BA-M-PL 840 HO <sup>1)</sup>	50000 h <sup>2)</sup>
BA-M-PL 865 HO <sup>1)</sup>	50000 h <sup>2)</sup>

<sup>1)</sup> See product remark

<sup>2)</sup> L70/B50 at T<sub>c</sub> 75 °C

### Additional product data

Product description	Successor EAN	ID of contained light source
BA-M-PL 840 HO <sup>1)</sup>	4062172183475	LS_SHZ_600743
BA-M-PL 865 HO <sup>1)</sup>	4062172183499	LS_SHZ_600744

<sup>1)</sup> See product remark

### Capabilities

Product description	Dimming range
BA-M-PL 840 HO <sup>1)</sup>	1...100 %
BA-M-PL 865 HO <sup>1)</sup>	1...100 %

<sup>1)</sup> See product remark

## Product family datasheet

### Certificates & standards

Product description	Energy consumption	Type of protection	Standards
BA-M-PL 840 HO <sup>1)</sup>	38 kWh/1000h	IP66	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
BA-M-PL 865 HO <sup>1)</sup>	38 kWh/1000h	IP66	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

<sup>1)</sup> See product remark

### Logistical data

Product description	Commodity code
BA-M-PL 840 HO <sup>1)</sup>	940540399000
BA-M-PL 865 HO <sup>1)</sup>	940540399000

<sup>1)</sup> 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](http://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

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

### Application advice















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

### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

## Product family datasheet

### Download Data

File	
	User instruction 730347_User instruction BackLED L M S Plus
	Certificates ENEC Certificate
	Declarations of conformity Manufacturer declaration BACKLED S_M
	Declarations of conformity BackLED CE 3250405 09 211119
	CAD data CAD Data IGS BackLED M Plus HO G1
	CAD data 3-dim STEP file BA-M-PL HO G1
	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
	Eulumdat Eulumdat file BA-M-PL 865 HO G1
	Eulumdat Eulumdat BA-M-PL 865 HO G1
	IES data IES Data BA-M-PL 865 HO G1

## Product family datasheet

### Ecodesign regulation information:

ul>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 dm <sup>3</sup>	2917.00 g
4052899504745	BA-M-PL 865 HO	Shipping carton box 5	460 mm x 389 mm x 118 mm	21.11 dm <sup>3</sup>	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
BA-M-PL 865 HO	BA -SM-MP	▶ 4052899264540

### References / Links

For more information on the multi-level guarantee and the terms and conditions of the guarantee visit

▶ [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

## Product family datasheet

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### Disclaimer

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