OSRAM

BackLED RGBW Plus G2

LED modules for light advertising and backlighting

Product family features

- Connected with flexible cables
- Type of protection (modules): IP66/IP68
- Special robust encapsulation
- CE marked
- Dimmable by pulse width modulation (PWM)

Product family benefits

- Simple fixing with M3 screws
- Broad color mixing palette (in connection with light management systems)
- Uniform backlighting of large surfaces thanks to extremely wide angle optics
- Simple connection with open cable ends
- Consistent white light (Standard Deviation of Color Matching SDCM: < 5)
- 5 year guarantee

Areas of application

- Special-purpose and decorative lighting applications
- Dynamic color backlighting
- Dynamic mood lighting
- Spas
- Shops
- Restaurants
- Trade fair lighting
- Permanent outdoor use in enclosed light boxes or channel letters

Product family datasheet

Electrical data

Product description	Nominal voltage	Nominal wattage per LED module	Accidental reverse input voltage protection up to	Input voltage range	Type of current	
BA-RGBW-PL G2 [1]	24.0 V	3.7 W	24 V	23.5...24.5 V	DC	

[1] See product remark

Photometrical data

Product description	Light color (designation)	Light color LED	Luminous flux per module chain	Luminous efficacy	
BA-RGBW-PL G2 [1]	RGBW	RGB, white	2310 lm	42 lm/W	

[1] See product remark

LED module information

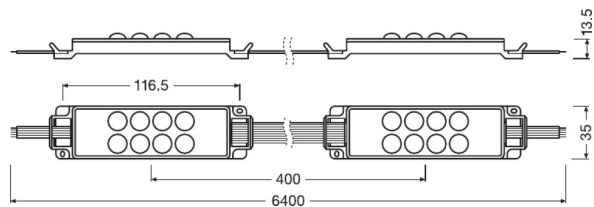| Product description	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules	
BA-RGBW-PL G2 [1]	8	15	3	

[1] See product remark

Dimensions & weight

Product description	Product weight	
BA-RGBW-PL G2 [1]	900.00 g	

[1] See product remark

Product line drawing

BA-RGBW-PL G2

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Temperatures & operating conditions

Product description	Temperature range in operation at Tc point	Temperature range at storage	
BA-RGBW-PL G2 [1]	-25...55 °C	-25...65 °C	

[1] See product remark

Additional product data

Product description	Successor EAN
BA-RGBW-PL G2 [1]	4062172030168

[1] See product remark

Capabilities

Product description	Dimming range
BA-RGBW-PL G2 [1]	5...100 %

[1] See product remark

Product family datasheet

Certificates & standards

Product description	Type of protection	Standards	
BA-RGBW-PL G2 [1]	IP66	CE	

[1] See product remark

Logistical data

Product description	Commodity code
BA-RGBW-PL G2 [1]	940540399000

[1] See product remark

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

Product description	Date of Declaration	Primary Article Identifier	Declaration No. in SCIP database
BA-RGBW-PL G2 [1]	18-04-2022	4052899452930	In work

[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

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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.

Additional product information

- Installation of LED modules (with power supplies) needs to be made under consideration of all valid regulations and norms.
- Installation by qualified electrician only.
- Please see the relevant application guides and instructions sheets for more detailed safety and mounting information. Additional information is available on request.
- Complies with IEC/EN 61547
- Complies with IEC/EN 61000-3-2
- Complies with EN 55015, CISPR 15
- Complies with IEC/EN 61347-1
- Complies with IEC/EN 61347-2-13
- LED modules are dimmable by means of PWM (pulse width modulation). It is recommended using the following OSRAM control gears: OPTOTRONIC OT DIM or OPTOTRONIC 24 V power supplies with integrated 1...10 V dimming interface.
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED modules is stronly discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload and damage the LED module.
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- In order to operate OSRAM LED modules safely, it is absolutely necessary to operate them with an electronically stabilized power supply that protects against short circuits, overload and overheating.
- In case other power supplies than OSRAM OPTOTRONIC are used, compliance to the neccessary operating parameters (voltage, current, power) has to be ensured.
- Pay attention to polarity! Wrong polarity can cause destruction or malfunction of the module.
- Conducting paths on the circuit board must not be damaged or destroyed during installation.
- The LED module itself and all its components must not be stressed mechanically.
- Operation in or under water is prohibited.
- To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
- In case that the LED module is equipped with a pre-mounted double-sided adhesive tape, OSRAM assumes no liability and provides no guarantee for a permanent adherence of the modules to the surface. OSRAM recommends fixation of the modules by means of suitable screws.
- Complies with IEC 61347-1 cl. 18.3, cl. 18.4, IEC 60695-2-10, IEC 60695-11-5, IEC 60695-11-10 (classification V-0)
- All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the specified typical values 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.
- Module contains no PVC material.
- To ensure uniform illumination, a reflective matt white surface is generally recommended for all internal frame walls and back panels of light boxes.
- The module may cause noises during dimming. If a dimming operation is required, it is recommended to check the dimming operation for noises before final installation.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File
User instruction UI BackLED TW and RGBW Plus G2

Product family datasheet

📄	Declarations of conformity	BACKLED PLUS G15 CE 3320783 06 260723
📄	Declarations of conformity	727532_Manufacturer´s Declaration BackLED PLUS
🖥	CAD data	728616_CAD_BackLED RGBW Plus G2_dwg
🖥	CAD data	728617_CAD_BackLED RGBW Plus G2_isg
🖥	CAD data 3-dim	728618_CAD_BackLED RGBW Plus G2_step
📄	CAD data PDF	728615_CAD BackLED RGBW Plus G2_pdf
🖥	Eulumdat	728621_BackLED RBGW Plus G2 BA-RGBW-PL_Blue_4052899452930
🖥	Eulumdat	728622_BackLED RBGW Plus G2 BA-RGBW-PL_Green_4052899452930
🖥	Eulumdat	728623_BackLED RBGW Plus G2 BA-RGBW-PL_RGBW_4052899452930
🖥	Eulumdat	728624_BackLED RBGW Plus G2 BA-RGBW-PL_Red_4052899452930
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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
4052899452930	BA-RGBW-PL G2	Shipping carton box 5	473 mm x 328 mm x 292 mm	45.30 dm³	7277.00 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.