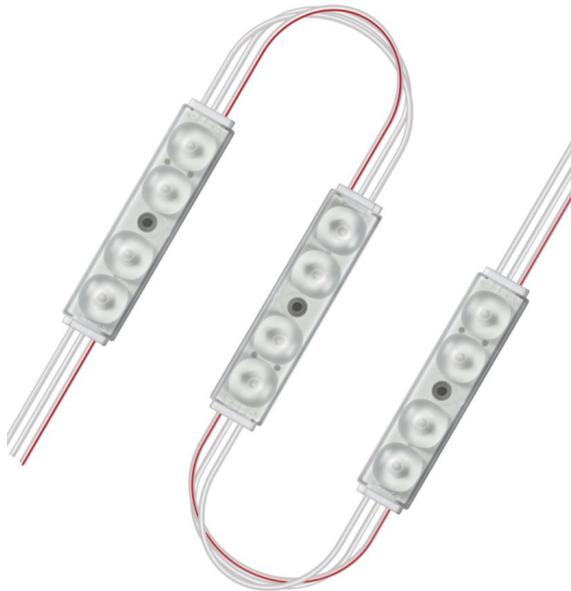# inventronics

The trusted value of OSRAM Digital Systems continues with Inventronics Global – where experience meets innovation.

BA-TW-CP-827.865-24 -G5

BackLED TW CP G5 | LED modules for light advertising and backlighting

Product family features

- Light color: dynamic 2700…6500 K
- Compatible with Inventronics OPTOTRONIC constant voltage drivers / dimmers
- Color consistency in 3 SDCM
- Patented Square Lens technology
- IP66 rating
- Lifetime (L80/B10): 50,000 h (temperature at T_c = 75 °C)

Product family benefits

- Backside injection technology for high protection level
- 5 year guarantee

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Areas of application

- Daylight simulation
- Channel letters
- Luminous areas and ceilings

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Technical data

Electrical data

Nominal voltage	24.0 V
Type of current	DC
Rated wattage	60.00 W
Input voltage range	23.4...24.9 V
Accidental reverse input voltage protection up to	24 V
Nominal wattage per chain	60.00 W
Nominal wattage per LED module	2 W [1)]
Nominal wattage per LED module REM	Warm White: 1 W, Cool White 1 W

1) Warm White: 1 W, Cool White 1 W

Photometrical data

Color rendering index Ra	>80
Luminous efficacy	138.5 lm/W [1)]
Luminous efficacy [PIM] REM	127 lm/W in CCT 2700, 150lm/W in CCT 6500
Color Temperature	2700
Color temperature [PIM] REM	Warm White: 2700 K, Cool White 6500 K
Luminous flux per LED module	277 lm [2)]
Luminous flux per LED module REM	Warm White: 127 lm, Cool White 150 lm/W

1) 127 lm/W in CCT 2700, 150lm/W in CCT 6500
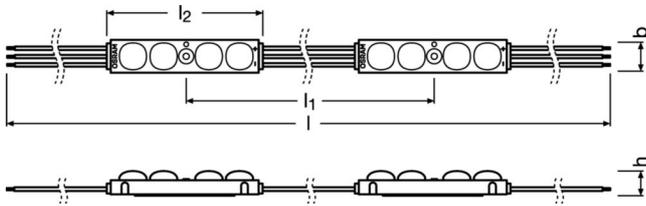2) Warm White: 127 lm, Cool White 150 lm/W

Light technical data

Beam angle	155 °

LED module information

Number of LEDs per module	4
Minimum operable number of LED modules	1
Number of LED modules per chain	30

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Dimensions & weight

Length	77.9 mm
Width	17.8 mm
Height	12.4 mm
Product weight	925.00 g
Module pitch	450 mm
Module length	77.9 mm

Temperatures & operating conditions

Temperature range in operation at Tc point	-25…75 °C
Ambient temperature range	-25…+55 °C
Temperature range at storage	-25…85 °C

Lifespan

Rated lamp life time	50000 h
Rated lamp life time [PICOS] REM	L80B10 @ Tc max

Additional product data

ID of contained light source	LS_SHZ_600837

Capabilities

Dimming range	1…100 %

Certificates & standards

Standards	CE / ENEC / UL / BIS
Type of protection	IP66
Approval marks – approval	CE / ENEC
Energy efficiency class of the contained light source	E

Logistical data

Commodity code	85395100000

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	28-01-2026
Primary Article Identifier	4052899627253 | 6937186139511
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

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.In the contrary, and limited to the LINEARlight Flex Diffuse, LINEARlight Rigid Finesse, GINO LED Flex Diffuse and LUMINENT Milky product families, the contained light source is an integrated part of the containing product and its removal can only be done by causing a permanent damage to the containing product due to its tight mechanical, electrical, optical, thermal interaction and/or environmental protection with or from the containing product. Therefore, a replacement of the light source with the use of common available tools is not justified.
- 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.

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.

Download Data

File		
IES data	Compressed	▶IES file of BA TW CP 827.865 24 G5
Certificates	PDF	▶ENEC of BackLED CP G5
Certificates	PDF	▶UL certificate of Compliance BackLED CP G5
CAD data 3-dim	Compressed	▶3D drawing of BackLED CP 24V G5 TW
Product Datasheet	PDF	▶Product datasheet BA TW CP 827.865 24V G5
Mandatory Publications	PDF	▶BA CP G5 24 CED 9C1-4320108-EN-00 20210622
Mandatory Publications	PDF	▶BA CP G5 24 UKD 9C1-4320110-EN-00 20210622
User instruction	PDF	▶BackLED XL CP G5 TW UI

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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899627253 OSRAM	BA-TW-CP-827.865-24 - G5	Shipping carton box 10 Pieces	355 x 255 x 240 mm	21.73 dm³	990.00 g
6937186139511 INVENTRONICS	BA-TW-CP-827.865-24 - G5	Shipping carton box 10 Pieces	365 x 265 x 318 mm	30.76 dm³	1000.00 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-TW-CP-827.865-24 -G5	BA -MP-L-G5-2M	►4052899629189
BA-TW-CP-827.865-24 -G5	BA -MP-L-G5-2M	►6937186140548
BA-TW-CP-827.865-24 -G5	BA -CLIP-SM-G5	►4052899629349
BA-TW-CP-827.865-24 -G5	BA -CLIP-SM-G5	►6937186140586

Disclaimer

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