OSRAM

TFP300-G1 -840-05

TEC Flex Protect 300 | LED modules for semi-professional applications

Product family features

- Flexible and cuttable LED strip
- Luminous flux: up to 300 lm/m
- Available with color temperature: 2,700K, 3,000 K, 4,000 K, 5,000 K or 6,500 K
- Up to 50,000 hrs lifetime @ tc max
- Recommended in system use with OPTOTRONIC
- Color consistency in 3 SDCM

Product family benefits

- Pre-wired LED strip, simple and quick plug-and-play installation
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back
- Type of protection: IP66
- Dimmable (with suitable PWM dimming methods)

Areas of application

- For use in architectural, shop and interior luminaires
- Offices, corridors and residential interiors
- Architectural Integration – e.g. coves, walls
- Wet or damp areas

Technical data

Electrical data

Nominal voltage	24.0 V
Type of current	DC
Nominal wattage per meter	2.8 W
Rated wattage	14.00 W
Input voltage range	23...25 V
Accidental reverse input voltage protection up to	25 V

Photometrical data

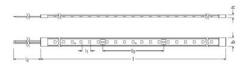| Light color LED	White
Color rendering index Ra	80
Luminous flux per meter	360 lm
Total useful luminous flux	1800 lm
Standard deviation of color matching	≤3 sdcm
Light color (designation)	White
Color temperature	4000 K

Light technical data

LED pitch	14.29 mm
Rated beam angle (half peak value)	120.00 °
Starting time	< 0.5 s
Warm-up time (60 %)	0.00 s

LED module information

Number of LEDs per meter	70
Number of LEDs per smallest unit	7

Product datasheet

Dimensions & weight

Length	5000 mm
Length – smallest unit	100.0 mm
Width	11.1 mm
Height	4.10 mm
Product weight	269.00 g
Cable cross-section, input side	0.5 mm²

Temperatures & operating conditions

Performance temp. acc. to IEC 62717	30 °C
Temperature range in operation at Tc point	-25...80 °C
Ambient temperature range	-25...+50 °C
Temperature range at storage	-30...85 °C

Lifespan

Rated lamp life time	50000 h
Nominal lamp life time	50000 h
Lumen main.fact.at end of nom.life time	0.70
Number of switching cycles	30000

Capabilities

Dimmable	Yes
Lowest bending radius	20 mm

Certificates & standards

Energy efficiency class	A++
Energy consumption	16 kWh/1000h
Standards	CE/ENEC/EAC

Product datasheet

Type of protection	IP66

Logistical data

Commodity code	940540399000

Equipment / Accessories

- Simplified connection with optional matching CONNECTsystem
- Flexessories: a complete set of aluminum channels with diffusers and lenses
- Drivers and dimmers: wide selection of OPTOTRONIC 24 V DALI, DMX and BLE

Download Data

	File
	User instruction TEC Flex IP66
	Product Datasheet TEC Flex IP66 Product Datasheet (EN)
	Brochures Light is strong - Discover the versatile and flexible lighting system OSRAM 24V TEC Flex (EN)
	Certificates TFX ENEC 130520
	Declarations of conformity TECFlex CE 4210017 300420
	CAD data DWG TEC Flex and TEC Flex Shortpitch

Product 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.

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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172106665	TFP300-G1 -840-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm³	3664.00 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
TFP300-G1 -840-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TFP300-G1 -840-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP300-G1 -840-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853

Disclaimer

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