

## TEC Flex 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: IP00
- 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



## Product family datasheet

### Technical data

#### Electrical data

Product description	Nominal voltage	Type of current	Nominal wattage per meter	Rated wattage	Input voltage range	Accidental reverse input voltage protection up to
TF300-G1 -827-05	24.0 V	DC	2.8 W	14.00 W	23...25 V	25 V
TF300-G1 -830-05	24.0 V	DC	2.8 W	14.00 W	23...25 V	25 V
TF300-G1 -840-05	24.0 V	DC	2.8 W	14.00 W	23...25 V	25 V
TF300-G1 -850-05	24.0 V	DC	2.8 W	14.00 W	23...25 V	25 V
TF300-G1 -865-05	24.0 V	DC	2.8 W	14.00 W	23...25 V	25 V

#### Photometrical data

Product description	Light color LED	Color rendering index Ra	Luminous flux per meter	Total useful luminous flux	Standard deviation of color matching	Light color (designation)
TF300-G1 -827-05	White	80	350 lm	1750 lm	≤3 sdc	White
TF300-G1 -830-05	White	80	360 lm	1800 lm	≤3 sdc	White
TF300-G1 -840-05	White	80	370 lm	1850 lm	≤3 sdc	White
TF300-G1 -850-05	White	80	380 lm	1900 lm	≤3 sdc	White
TF300-G1 -865-05	White	80	370 lm	1850 lm	≤3 sdc	White

#### Light technical data

Product description	LED pitch	Rated beam angle (half peak value)	Starting time	Warm-up time (60 %)
TF300-G1 -827-05	14.29 mm	120.00 °	< 0.5 s	0.00 s
TF300-G1 -830-05	14.29 mm	120.00 °	< 0.5 s	0.00 s
TF300-G1 -840-05	14.29 mm	120.00 °	< 0.5 s	0.00 s
TF300-G1 -850-05	14.29 mm	120.00 °	< 0.5 s	0.00 s
TF300-G1 -865-05	14.29 mm	120.00 °	< 0.5 s	0.00 s

## Product family datasheet

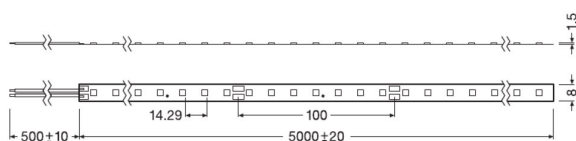
### LED module information

Product description	Number of LEDs per meter	Number of LEDs per smallest unit
TF300-G1 -827-05	70	7
TF300-G1 -830-05	70	7
TF300-G1 -840-05	70	7
TF300-G1 -850-05	70	7
TF300-G1 -865-05	70	7

### Dimensions & weight

Product description	Length	Length – smallest unit	Width	Height	Product weight
TF300-G1 -827-05	5000 mm	100.0 mm	8.00 mm	1.50 mm	60.00 g
TF300-G1 -830-05	5000 mm	100.0 mm	8.00 mm	1.50 mm	60.00 g
TF300-G1 -840-05	5000 mm	100.0 mm	8.00 mm	1.50 mm	60.00 g
TF300-G1 -850-05	5000 mm	100.0 mm	8.00 mm	1.50 mm	60.00 g
TF300-G1 -865-05	5000 mm	100.0 mm	8.00 mm	1.50 mm	60.00 g

### Product line drawing



TF300-G1 -827-05, TF300-G1 -830-05, TF300-G1 -840-05,  
TF300-G1 -850-05, TF300-G1 -865-05

## Product family datasheet

### Temperatures & operating conditions

Product description	Performance temp. acc. to IEC 62717	Temperature range in operation at Tc point	Ambient temperature range	Temperature range at storage
TF300-G1 -827-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TF300-G1 -830-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TF300-G1 -840-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TF300-G1 -850-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TF300-G1 -865-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C

### Lifespan

Product description	Rated lamp life time	Nominal lamp life time	Lumen main. fact. at end of nom. life time	Number of switching cycles
TF300-G1 -827-05	50000 h	50000 h	0.70	30000
TF300-G1 -830-05	50000 h	50000 h	0.70	30000
TF300-G1 -840-05	50000 h	50000 h	0.70	30000
TF300-G1 -850-05	50000 h	50000 h	0.70	30000
TF300-G1 -865-05	50000 h	50000 h	0.70	30000

### Capabilities

Product description	Dimmable	Lowest bending radius
TF300-G1 -827-05	Yes	20 mm
TF300-G1 -830-05	Yes	20 mm
TF300-G1 -840-05	Yes	20 mm
TF300-G1 -850-05	Yes	20 mm
TF300-G1 -865-05	Yes	20 mm

### Certificates & standards

Product description	Energy efficiency class	Energy consumption	Standards	Type of protection
TF300-G1 -827-05	A++	16 kWh/1000h	CE/EAC/ENEC	IP00
TF300-G1 -830-05	A++	16 kWh/1000h	CE/EAC/ENEC	IP00
TF300-G1 -840-05	A++	16 kWh/1000h	CE/EAC/ENEC	IP00
TF300-G1 -850-05	A++	16 kWh/1000h	CE/EAC/ENEC	IP00
TF300-G1 -865-05	A++	16 kWh/1000h	CE/EAC/ENEC	IP00

## Product family datasheet

### Logistical data

Product description	Commodity code
TF300-G1 -827-05	940540399000
TF300-G1 -830-05	940540399000
TF300-G1 -840-05	940540399000
TF300-G1 -850-05	940540399000
TF300-G1 -865-05	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







### 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)

### Download Data

File
 User instruction TEC Flex IP00
 Product Datasheet TEC Flex IP00 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 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.

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
4062172107020	TF300-G1 -827-05	Shipping carton box 10	225 mm x 240 mm x 120 mm	6.48 dm <sup>3</sup>	1254.00 g
4062172107044	TF300-G1 -830-05	Shipping carton box 10	225 mm x 240 mm x 120 mm	6.48 dm <sup>3</sup>	1254.00 g
4062172107068	TF300-G1 -840-05	Shipping carton box 10	225 mm x 240 mm x 120 mm	6.48 dm <sup>3</sup>	1254.00 g
4062172107082	TF300-G1 -850-05	Shipping carton box 10	225 mm x 240 mm x 120 mm	6.48 dm <sup>3</sup>	1254.00 g
4062172107105	TF300-G1 -865-05	Shipping carton box 10	225 mm x 240 mm x 120 mm	6.48 dm <sup>3</sup>	1254.00 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
TF300-G1 -827-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TF300-G1 -830-05	FX -SC08-G2-CT4PJ	▶ 4052899464858

## Product family datasheet

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TF300-G1 -840-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TF300-G1 -850-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TF300-G1 -865-05	FX -SC08-G2-CT4PJ	▶ 4052899464858

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### Disclaimer

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