

TEC Flex 300

LED modules for semi-professional applications

Areas of application

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



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)

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 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

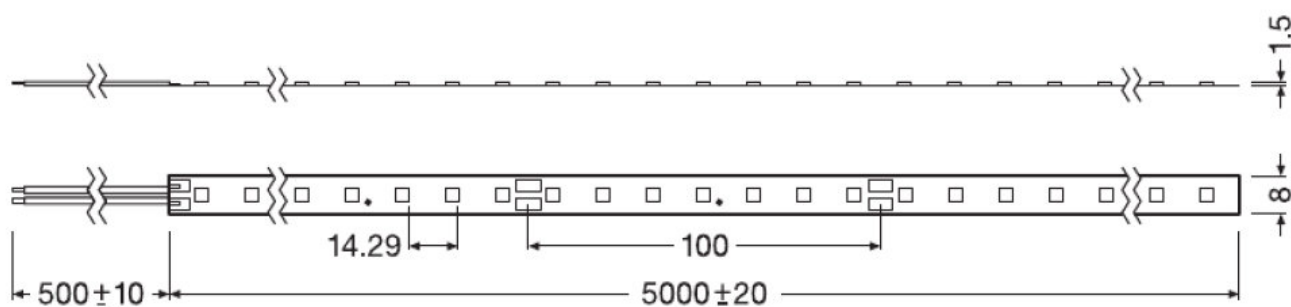
LED module information

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	Self-adhesive
TF300-G1 -827-05	Yes	20 mm	Yes
TF300-G1 -830-05	Yes	20 mm	Yes
TF300-G1 -840-05	Yes	20 mm	Yes
TF300-G1 -850-05	Yes	20 mm	Yes
TF300-G1 -865-05	Yes	20 mm	Yes

Product description	With connection set	With end piece
TF300-G1 -827-05	No	No
TF300-G1 -830-05	No	No
TF300-G1 -840-05	No	No
TF300-G1 -850-05	No	No
TF300-G1 -865-05	No	No

Product family datasheet

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

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.
Attention: Only compatible for devices up to ANDROID 9

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File
 User instruction TEC Flex IP00
 Certificates TFX ENEC 130520
 Declarations of conformity TECFlex CE 4210017 300420

Product family datasheet



CAD data
DWG TEC Flex and TEC Flex Shortpitch

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 ³	1254.00 g
4062172107044	TF300-G1 -830-05	Shipping carton box 10	225 mm x 240 mm x 120 mm	6.48 dm ³	1254.00 g
4062172107068	TF300-G1 -840-05	Shipping carton box 10	225 mm x 240 mm x 120 mm	6.48 dm ³	1254.00 g
4062172107082	TF300-G1 -850-05	Shipping carton box 10	225 mm x 240 mm x 120 mm	6.48 dm ³	1254.00 g
4062172107105	TF300-G1 -865-05	Shipping carton box 10	225 mm x 240 mm x 120 mm	6.48 dm ³	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	LF -WIRE-30 FLEX SC	▶ 4008321875587
TF300-G1 -827-05	LF -WIRE-150 FLEX SC	▶ 4008321875563
TF300-G1 -827-05	FX -SC08-G2-CT2PF-0500	▶ 4052899464735
TF300-G1 -827-05	FX -SC08-G2-CT2PF-1000	▶ 4052899464766
TF300-G1 -827-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TF300-G1 -827-05	FX -SC08-G1-FW4P-LIN-0300	▶ 4052899469259
TF300-G1 -830-05	LF -WIRE-30 FLEX SC	▶ 4008321875587
TF300-G1 -830-05	LF -WIRE-150 FLEX SC	▶ 4008321875563
TF300-G1 -830-05	FX -SC08-G2-CT2PF-0500	▶ 4052899464735
TF300-G1 -830-05	FX -SC08-G2-CT2PF-1000	▶ 4052899464766
TF300-G1 -830-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TF300-G1 -830-05	FX -SC08-G1-FW4P-LIN-0300	▶ 4052899469259
TF300-G1 -840-05	LF -WIRE-30 FLEX SC	▶ 4008321875587
TF300-G1 -840-05	LF -WIRE-150 FLEX SC	▶ 4008321875563
TF300-G1 -840-05	FX -SC08-G2-CT2PF-0500	▶ 4052899464735
TF300-G1 -840-05	FX -SC08-G2-CT2PF-1000	▶ 4052899464766
TF300-G1 -840-05	FX -SC08-G2-CT4PJ	▶ 4052899464858

Product family datasheet

TF300-G1 -840-05	FX -SC08-G1-FW4P-LIN-0300	▶ 4052899469259
TF300-G1 -850-05	LF -WIRE-30 FLEX SC	▶ 4008321875587
TF300-G1 -850-05	LF -WIRE-150 FLEX SC	▶ 4008321875563
TF300-G1 -850-05	FX -SC08-G2-CT2PF-0500	▶ 4052899464735
TF300-G1 -850-05	FX -SC08-G2-CT2PF-1000	▶ 4052899464766
TF300-G1 -850-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TF300-G1 -850-05	FX -SC08-G1-FW4P-LIN-0300	▶ 4052899469259
TF300-G1 -865-05	LF -WIRE-30 FLEX SC	▶ 4008321875587
TF300-G1 -865-05	LF -WIRE-150 FLEX SC	▶ 4008321875563
TF300-G1 -865-05	FX -SC08-G2-CT2PF-0500	▶ 4052899464735
TF300-G1 -865-05	FX -SC08-G2-CT2PF-1000	▶ 4052899464766
TF300-G1 -865-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TF300-G1 -865-05	FX -SC08-G1-FW4P-LIN-0300	▶ 4052899469259

Disclaimer

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