

TEC Flex Protect 1000

LED modules for semi-professional applications

Product family features

- Flexible and cuttable LED strip
- Luminous flux: up to 1000 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

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



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
TFP1000-G1 -827-05	24.0 V	DC	9.5 W	47.50 W	23...25 V	25 V
TFP1000-G1 -830-05	24.0 V	DC	9.5 W	47.50 W	23...25 V	25 V
TFP1000-G1 -840-05	24.0 V	DC	9.5 W	47.50 W	23...25 V	25 V
TFP1000-G1 -850-05	24.0 V	DC	9.5 W	47.50 W	23...25 V	25 V
TFP1000-G1 -865-05	24.0 V	DC	9.5 W	47.50 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)
TFP1000-G1 -827-05	White	80	1080 lm	5400 lm	≤3 sdc	White
TFP1000-G1 -830-05	White	80	1160 lm	5800 lm	≤3 sdc	White
TFP1000-G1 -840-05	White	80	1170 lm	5850 lm	≤3 sdc	White
TFP1000-G1 -850-05	White	80	1190 lm	5950 lm	≤3 sdc	White
TFP1000-G1 -865-05	White	80	1180 lm	5900 lm	≤3 sdc	White

Light technical data

Product description	LED pitch	Starting time	Warm-up time (60 %)
TFP1000-G1 -827-05	14.29 mm	< 0.5 s	0.00 s
TFP1000-G1 -830-05	14.29 mm	< 0.5 s	0.00 s
TFP1000-G1 -840-05	14.29 mm	< 0.5 s	0.00 s
TFP1000-G1 -850-05	14.29 mm	< 0.5 s	0.00 s
TFP1000-G1 -865-05	14.29 mm	< 0.5 s	0.00 s

LED module information

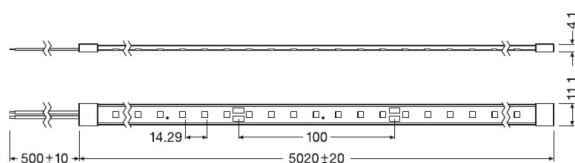
Product description	Number of LEDs per meter	Number of LEDs per smallest unit
TFP1000-G1 -827-05	70	7
TFP1000-G1 -830-05	70	7
TFP1000-G1 -840-05	70	7
TFP1000-G1 -850-05	70	7
TFP1000-G1 -865-05	70	7

Product family datasheet

Dimensions & weight

Product description	Length	Length – smallest unit	Width	Height	Product weight
TFP1000-G1 -827-05	5000 mm	100.0 mm	11.1 mm	4.10 mm	269.00 g
TFP1000-G1 -830-05	5000 mm	100.0 mm	11.1 mm	4.10 mm	269.00 g
TFP1000-G1 -840-05	5000 mm	100.0 mm	11.1 mm	4.10 mm	269.00 g
TFP1000-G1 -850-05	5000 mm	100.0 mm	11.1 mm	4.10 mm	269.00 g
TFP1000-G1 -865-05	5000 mm	100.0 mm	11.1 mm	4.10 mm	269.00 g

Product line drawing



TFP1000-G1 -827-05, TFP1000-G1 -830-05, TFP1000-G1 -840-05, TFP1000-G1 -850-05, TFP1000-G1 -865-05

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
TFP1000-G1 -827-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TFP1000-G1 -830-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TFP1000-G1 -840-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TFP1000-G1 -850-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C
TFP1000-G1 -865-05	30 °C	-25...80 °C	-25...+50 °C	-30...85 °C

Product family datasheet

Lifespan

Product description	Rated lamp life time	Nominal lamp life time	Lumen main. fact. at end of nom. life time	Number of switching cycles
TFP1000-G1 -827-05	50000 h	50000 h	0.70	30000
TFP1000-G1 -830-05	50000 h	50000 h	0.70	30000
TFP1000-G1 -840-05	50000 h	50000 h	0.70	30000
TFP1000-G1 -850-05	50000 h	50000 h	0.70	30000
TFP1000-G1 -865-05	50000 h	50000 h	0.70	30000

Additional product data

Product description	Predecessor EAN	ID of contained light source [GMS]
TFP1000-G1 -827-05	4052899526211	LS_SHZ_600320
TFP1000-G1 -830-05	4052899526235	LS_SHZ_600321
TFP1000-G1 -840-05	4052899526259	LS_SHZ_600322
TFP1000-G1 -850-05		LS_SHZ_600323
TFP1000-G1 -865-05	4052899526273	LS_SHZ_600324

Capabilities

Product description	Lowest bending radius
TFP1000-G1 -827-05	20 mm
TFP1000-G1 -830-05	20 mm
TFP1000-G1 -840-05	20 mm
TFP1000-G1 -850-05	20 mm
TFP1000-G1 -865-05	20 mm

Certificates & standards

Product description	Energy consumption	Standards	Type of protection	Energy efficiency class of the contained light source
TFP1000-G1 -827-05	53 kWh/1000h	CE/ENEC/EAC	IP66	F
TFP1000-G1 -830-05	53 kWh/1000h	CE/ENEC/EAC	IP66	E
TFP1000-G1 -840-05	53 kWh/1000h	CE/ENEC/EAC	IP66	E
TFP1000-G1 -850-05	53 kWh/1000h	CE/ENEC/EAC	IP66	E
TFP1000-G1 -865-05	53 kWh/1000h	CE/ENEC/EAC	IP66	E

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Logistical data

Product description	Commodity code
TFP1000-G1 -827-05	853951000000
TFP1000-G1 -830-05	853951000000
TFP1000-G1 -840-05	853951000000
TFP1000-G1 -850-05	853951000000
TFP1000-G1 -865-05	853951000000

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

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
TFP1000-G1 -827-05	18-04-2022	4062172106726	No declarable substances contained
TFP1000-G1 -830-05	18-04-2022	4062172106740	No declarable substances contained
TFP1000-G1 -840-05	18-04-2022	4062172106764	No declarable substances contained
TFP1000-G1 -850-05	18-04-2022	4062172106788	No declarable substances contained
TFP1000-G1 -865-05	18-04-2022	4062172106801	No declarable substances contained

Product description	Declaration No. in SCIP database
TFP1000-G1 -827-05	No declarable substances contained
TFP1000-G1 -830-05	No declarable substances contained
TFP1000-G1 -840-05	No declarable substances contained
TFP1000-G1 -850-05	No declarable substances contained
TFP1000-G1 -865-05	No declarable substances contained

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.

Product family datasheet

Sales and Technical Support

Sales and Technical Support www.osram.com

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
	Eulumdat EULUMDAT TEC Flex Protect
	Eulumdat TFP1000-G1-827 LTD 130122
	IES data TFP1000-G1-827 IES 130122
	Eulumdat TFP1000-G1-830 LTD 130122
	IES data TFP1000-G1-830 IES 130122
	Eulumdat TFP1000-G1-840 LTD 130122
	IES data TFP1000-G1-840 IES 130122
	Eulumdat TFP1000-G1-850 LTD 130122
	IES data TFP1000-G1-850 IES 130122
	Eulumdat TFP1000-G1-865 LTD 130122
	IES data TFP1000-G1-865 IES 130122

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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. 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
4062172106726	TFP1000-G1 -827-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm ³	3664.00 g
4062172106740	TFP1000-G1 -830-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm ³	3664.00 g
4062172106764	TFP1000-G1 -840-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm ³	3664.00 g
4062172106788	TFP1000-G1 -850-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm ³	3664.00 g
4062172106801	TFP1000-G1 -865-05	Shipping carton box 10	280 mm x 305 mm x 180 mm	15.37 dm ³	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
TFP1000-G1 -827-05	ENDCAP -IP67 KIT 10PCS	▶ 4062172176552
TFP1000-G1 -827-05	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
TFP1000-G1 -827-05	FX-QMS-G1 -T45D19H19-300	▶ 4052899448667
TFP1000-G1 -827-05	FX-QMW-G1 -TU26H25W10-300	▶ 4052899448773

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TFP1000-G1 -827-05	FX-QMW-G1 -TU26H25-300	▶ 4052899448803
TFP1000-G1 -827-05	FX-QMW-G1 -TK30D46H27-300	▶ 4052899448827
TFP1000-G1 -827-05	FX-QMW-G1 -TU26H25W2-300	▶ 4052899448841
TFP1000-G1 -827-05	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
TFP1000-G1 -827-05	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
TFP1000-G1 -827-05	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
TFP1000-G1 -827-05	FX-QMS-G1 -TR19H16-300	▶ 4052899449008
TFP1000-G1 -827-05	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
TFP1000-G1 -827-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TFP1000-G1 -827-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP1000-G1 -827-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853
TFP1000-G1 -827-05	FX-DCS -G1-GL-25	▶ 4052899452244
TFP1000-G1 -827-05	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
TFP1000-G1 -830-05	ENDCAP -IP67 KIT 10PCS	▶ 4062172176552
TFP1000-G1 -830-05	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
TFP1000-G1 -830-05	FX-QMS-G1 -T45D19H19-300	▶ 4052899448667
TFP1000-G1 -830-05	FX-QMW-G1 -TU26H25W10-300	▶ 4052899448773
TFP1000-G1 -830-05	FX-QMW-G1 -TU26H25-300	▶ 4052899448803
TFP1000-G1 -830-05	FX-QMW-G1 -TK30D46H27-300	▶ 4052899448827
TFP1000-G1 -830-05	FX-QMW-G1 -TU26H25W2-300	▶ 4052899448841
TFP1000-G1 -830-05	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
TFP1000-G1 -830-05	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
TFP1000-G1 -830-05	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
TFP1000-G1 -830-05	FX-QMS-G1 -TR19H16-300	▶ 4052899449008
TFP1000-G1 -830-05	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
TFP1000-G1 -830-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TFP1000-G1 -830-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP1000-G1 -830-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853
TFP1000-G1 -830-05	FX-DCS -G1-GL-25	▶ 4052899452244
TFP1000-G1 -830-05	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
TFP1000-G1 -840-05	ENDCAP -IP67 KIT 10PCS	▶ 4062172176552
TFP1000-G1 -840-05	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
TFP1000-G1 -840-05	FX-QMS-G1 -T45D19H19-300	▶ 4052899448667
TFP1000-G1 -840-05	FX-QMW-G1 -TU26H25W10-300	▶ 4052899448773
TFP1000-G1 -840-05	FX-QMW-G1 -TU26H25-300	▶ 4052899448803
TFP1000-G1 -840-05	FX-QMW-G1 -TK30D46H27-300	▶ 4052899448827
TFP1000-G1 -840-05	FX-QMW-G1 -TU26H25W2-300	▶ 4052899448841
TFP1000-G1 -840-05	FX-QMS-G1 -TU15H6-300	▶ 4052899448865

Product family datasheet

TFP1000-G1 -840-05	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
TFP1000-G1 -840-05	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
TFP1000-G1 -840-05	FX-QMS-G1 -TR19H16-300	▶ 4052899449008
TFP1000-G1 -840-05	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
TFP1000-G1 -840-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TFP1000-G1 -840-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP1000-G1 -840-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853
TFP1000-G1 -840-05	FX-DCS -G1-GL-25	▶ 4052899452244
TFP1000-G1 -840-05	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
TFP1000-G1 -850-05	ENDCAP -IP67 KIT 10PCS	▶ 4062172176552
TFP1000-G1 -850-05	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
TFP1000-G1 -850-05	FX-QMS-G1 -T45D19H19-300	▶ 4052899448667
TFP1000-G1 -850-05	FX-QMW-G1 -TU26H25W10-300	▶ 4052899448773
TFP1000-G1 -850-05	FX-QMW-G1 -TU26H25-300	▶ 4052899448803
TFP1000-G1 -850-05	FX-QMW-G1 -TK30D46H27-300	▶ 4052899448827
TFP1000-G1 -850-05	FX-QMW-G1 -TU26H25W2-300	▶ 4052899448841
TFP1000-G1 -850-05	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
TFP1000-G1 -850-05	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
TFP1000-G1 -850-05	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
TFP1000-G1 -850-05	FX-QMS-G1 -TR19H16-300	▶ 4052899449008
TFP1000-G1 -850-05	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
TFP1000-G1 -850-05	FX -SC08-G2-CT4PJ	▶ 4052899464858
TFP1000-G1 -850-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP1000-G1 -850-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853
TFP1000-G1 -850-05	FX-DCS -G1-GL-25	▶ 4052899452244
TFP1000-G1 -850-05	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
TFP1000-G1 -865-05	ENDCAP -IP67 KIT 10PCS	▶ 4062172176552
TFP1000-G1 -865-05	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
TFP1000-G1 -865-05	FX-QMS-G1 -T45D19H19-300	▶ 4052899448667
TFP1000-G1 -865-05	FX-QMW-G1 -TU26H25W10-300	▶ 4052899448773
TFP1000-G1 -865-05	FX-QMW-G1 -TU26H25-300	▶ 4052899448803
TFP1000-G1 -865-05	FX-QMW-G1 -TK30D46H27-300	▶ 4052899448827
TFP1000-G1 -865-05	FX-QMW-G1 -TU26H25W2-300	▶ 4052899448841
TFP1000-G1 -865-05	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
TFP1000-G1 -865-05	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
TFP1000-G1 -865-05	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
TFP1000-G1 -865-05	FX-QMS-G1 -TR19H16-300	▶ 4052899449008
TFP1000-G1 -865-05	FX-QMS-G1 -TU16H12-300	▶ 4052899448964

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TFP1000-G1 -865-05	FX -SC08-G2-C2PF-IP54-0500	▶ 4052899464889
TFP1000-G1 -865-05	FX -SC08-G2--BTJ-IP54	▶ 4052899568853
TFP1000-G1 -865-05	FX-DCS -G1-GL-25	▶ 4052899452244
TFP1000-G1 -865-05	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046

Disclaimer

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