

LFP500I -G1-840-48-18 L1

LINEARlight FLEX Infinite 48V Protect | – LED modules for professional and industrial applications



Product family features

- 48V system with longer reels
- Luminous flux: up to 4,000 lm/m
- Type of protection: IP68
- Dimmable with PWM technology

Product family benefits

- Color uniformity better than 2 SDCM on the entire LED strip and between strips
- High efficiency
- High luminous flux
- Large selection of light colors
- Great design freedom thanks to flexibility and cuttability of module
- High-performance silicone for extremely long life and flexibility
- Extraordinary design and high quality materials
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back
- Pre-wired LED strip, simple and quick plug-and-play installation
- Outdoor use possible: UV and salt mist resistant (UV acc. to ISO 4892-2 - Method A, salt mist acc. to IEC 60068-2-52 severity 1)



Technical data

Electrical data

Nominal voltage	48.0 V
Type of current	DC
Nominal wattage per meter	4.0 W
Rated wattage	72.00 W
Input voltage range	45.6...50.4 V
Accidental reverse input voltage protection up to	50,4 V

Photometrical data

Color rendering index Ra	80
Luminous flux per meter	630 lm
Luminous efficacy	157.5 lm/W
Light color (designation)	4000 K
Color Temperature	4000

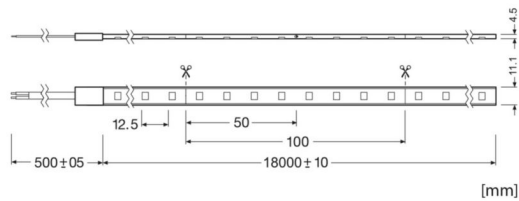
Light technical data

LED pitch	12.5 mm
Beam angle	120 °
Starting time	< 0.5 s

LED module information

Number of LEDs per meter	80
Number of LEDs per smallest unit	8

Dimensions & weight



Length	18000 mm
Length – smallest unit	100.0 mm
Width	11.1 mm
Height	4.5 mm
Product weight	1092.00 g
Cable cross-section, input side	0.5 mm ²

Colors & materials

Cover material	Silicone
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Temperatures & operating conditions

Temperature range in operation at Tc point	-30...80 °C ¹⁾
Ambient temperature range	-30...+55 °C
Temperature range at storage	-40...+85 °C

1) Exceeding the maximum ratings will reduce expected life time or destroy the LED strip.

Lifespan

Rated lamp life time	60000 h
Number of switching cycles	>30000

Capabilities

Lowest bending radius	50 mm
Self-adhesive	Yes
With connection set	No
Lowest bending radius	50 mm

Certificates & standards

Standards	CE / UKCA / ENEC / VDE / UL / SASO
Type of protection	IP66 / IP68

Logistical data

Commodity code	85395100000
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	31-03-2026
Primary Article Identifier	4062172381291 6937186118516
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

Equipment / Accessories

- Simplified connection with optional matching CONNECTsystem
- Quick installation with optional SLIM TRACK System
- Perfectly matched to non-isolated OPTOTRONIC® electronic control gears

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.

Download Data

File		
IES data	Compressed	▶ LFP500I-G1-840-48 IES 100325
Product Datasheet	PDF	▶ LINEARlight FLEX INFINITE_Specification Sheet_IP66 - 48V
Eulumdat	Compressed	▶ LFP500I-G1-840-48 LDT 100325
User instruction	PDF	▶ LINEARlight FLEX Protect Infinite

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6937186118516 INVENTRONICS	LFP500I -G1-840-48-18 L1	Shipping carton box 4 Pieces	519 x 167 x 525 mm	45.50 dm ³	1774.00 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

Disclaimer

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

Accessories Optional

Product description	Accessory name	Accessory code
LFP500I -G1-840-48-18 L1	FX-QMS-G1 -TU15H6W3-300	▶ 6937186126702
LFP500I -G1-840-48-18 L1	FX-QMS-G2 -TU16H12-300	▶ 6937186126740
LFP500I -G1-840-48-18 L1	FX-QMW-G2 -TU26H25W10-200	▶ 6937186126801
LFP500I -G1-840-48-18 L1	FX-QMW-G2 -TU26H25-200 WH KIT5	▶ 6937186126825
LFP500I -G1-840-48-18 L1	FX-QMW-G2 -TU26H10-200 WS	▶ 6937186126849
LFP500I -G1-840-48-18 L1	FX-QMS-G2 -TU15H6-300	▶ 6937186130860
LFP500I -G1-840-48-18 L1	Corner surface wide profile 46x27 mm	▶ 6937186131706
LFP500I -G1-840-48-18 L1	ENDCAP -IP67 KIT 10PCS	▶ 6937186131850
LFP500I -G1-840-48-18 L1	CONN-FLEX -IP67-2P KIT 5PCS	▶ 6937186140449
LFP500I -G1-840-48-18 L1	JUMPER -FLEX-IP67-2P KIT 5PCS	▶ 6937186141040
LFP500I -G1-840-48-18 L1	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 6937186141200
LFP500I -G1-840-48-18 L1	CONN-FLEX -IP67-2P-300 KIT 5PCS	▶ 6937186141224
LFP500I -G1-840-48-18 L1	FX-QMS-G1 -TU16H12W3-300	▶ 6937186146229
LFP500I -G1-840-48-18 L1	LF-CLIP -FIXTURE PROTECT	▶ 6937186148360
LFP500I -G1-840-48-18 L1	FX-QMW-G1 -TK30D46H27-300	▶ 6937186148407
LFP500I -G1-840-48-18 L1	FX-QMS-G1 -TU16H12LS-300	▶ 6937186148421
LFP500I -G1-840-48-18 L1	Pendant wide profile 56x70 mm	▶ 6977078997805
LFP500I -G1-840-48-18 L1	Pendant wide profile 56x70 mm	▶ 6977078997836
LFP500I -G1-840-48-18 L1	Pendant wide profile 56x70 mm	▶ 6977078997867
LFP500I -G1-840-48-18 L1	Pendant wide profile 56x70 mm	▶ 6977078997898
LFP500I -G1-840-48-18 L1	Pendant wide profile 56x70 mm	▶ 6977078997928
LFP500I -G1-840-48-18 L1	Pendant wide profile 56x70 mm	▶ 6977078997959
LFP500I -G1-840-48-18 L1	null	▶ 6977078998017
LFP500I -G1-840-48-18 L1	null	▶ 6977078998048
LFP500I -G1-840-48-18 L1	null	▶ 6977078998079
LFP500I -G1-840-48-18 L1	null	▶ 6977078998109
LFP500I -G1-840-48-18 L1	null	▶ 6977078998130
LFP500I -G1-840-48-18 L1	null	▶ 6977078998161