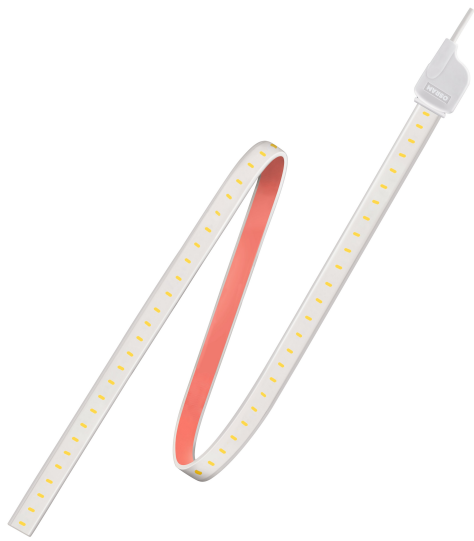


PRODUKTDATENBLATT

LF06S -840-P

LINEARlight FLEX® Protect ShortPitch | LED-Module für professionelle und industrielle Anwendungen



Anwendungsgebiete

- For high-end application with dedicated equipment and accessories

Produktvorteile

- Color consistency up to 2 SDCM on entire light strip thanks to Single-bin technology
- Color rendering options R_a : 80 and 90
- Service lifetime (L80/B10): up to 60,000 h
- LM79 and LM80 compliant
- Embedded constant current regulators
- No solder-joints on circuit board
- Type of protection: IP67 due to high performance silicon
- Flexible and cuttable LED strips
- Dimmable (with suitable PWM dimming methods)

Produkteigenschaften



Product features

- Flexible and cuttable LED strip
- Luminous flux: up to 810 lm/m
- Type of protection: IP67
- Dimmable with PWM technology
- Fine White (3.5 SDCM)



TECHNISCHE DATEN

Elektrische Daten

Nennleistung	57,6 W
Bemessungsleistung	49.80 W
Nennleistung pro Meter	9,6 W
Nennspannung	24 V
Stromart	Gleichspannung (DC)
Nennstrom	2100 mA

Photometrische Daten

Lichtausbeute	73 lm/W
Lichtstrom	4200 lm
Lichtstrom pro Meter	700 lm
Farbtemperatur	4000 K
Farbwiedergabeindex Ra	80
Lichtfarbe LED	Weiß
Lichtfarbe (Bezeichnung)	4000 K
Nominale dominante Wellenlänge	- nm

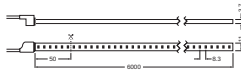
Lichttechnische Daten

Ausstrahlungswinkel	120 °
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LED MODULE INFORMATION

Anzahl LEDs pro Meter	120
Anzahl LED je Modul	720
Anzahl LED je kleinste Einheit	6

Maße & Gewicht



Länge	6000 mm
Länge - kleinste Einheit	50,0 mm
Kabellänge	500.000

Breite	11.10 mm
Breite (einschließlich runde Leuchten)	11.10 mm
Höhe	3.70 mm
Länge (einschließlich runde Leuchten)	3.70 mm
Leitungsquerschnitt eingangsseitig	0,34 mm ²
Leiterquerschnitt	0.34 mm ²
LED-Abstand	8,3 mm
Produktgewicht	330,00 g

Farben & Materialien

Produktfarbe	Weiß
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Temperaturen & Betriebsbedingungen

Umgebungstemperaturbereich	-20...+50 °C
Maximale Temperatur am Messpunkt tc	70 °C
Betriebstemperaturbereich	-20...70 °C ¹⁾
Betriebstemperatur nach IEC 62717	40 °C ²⁾

1) Das Überschreiten der Maximalwerte verringert die erwartete Lebensdauer oder zerstört das LED-Band.

2) Tp rated. Tp point coincides with Tc point - marked on device

Einsatzmöglichkeiten

Dimmbar	Ja
DIM-Schnittstelle	PWM
Montageart	Anbau
Kleinster Biegeradius	50 mm
Selbstklebend	Ja

Zertifikate & Standards

Normen	CE / ENEC
Schutzart	IP67
Energieverbrauch	4.50 kWh/1000h
Energieeffizienzklasse	A+

LOGISTISCHE DATEN

Lagertemperaturbereich	-40...+105 °C
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Daten gemäß der Verordnung zur Energieverbrauchskennzeichnung EU 2019/2015

Ähnliche Farbtemperatur

SINGLE_VALUE





TECHNISCHE AUSSTATTUNG

- Flexessories: a complete set of aluminum channels with diffusers and lenses
- Connectors: quick-and-easy toolless installation with SLIMCONNECTsystem G2
- Drivers and dimmers: wide selection of OPTOTRONIC 24 V DALI, DMX and BLE
- Check for more detailed information the specification sheets in the download section

ZUSÄTZLICHE PRODUKTINFORMATIONEN

- Some LED modules are equipped with a self-adhesive tape for attaching the LED module to suitable materials, such as aluminum profiles, which must be clean and free of oil or silicone coatings, as well as other dirt/dust particles. The adhesive tape is intended for single use and if removed may damage the material to which it is stuck and the LED module itself, which must then be scrapped. Use the adhesive tape when the installation material temperature is in the 18 °C...35 °C range. Complete adhesion takes up to 72 h.
- LED modules are designed for static installations in accordance with IPC 6013C – Use A. Take material vibrations, repetitive torsion, and elongation/compression into account.
- If the operating environment covers a broad temperature range (e.g. outdoor applications) and the operating length is longer than 2 m, the use of adequate mounting surfaces is required. The use of an additional thicker adhesive tape between LED module and mounting surface is also recommended in order to absorb the stress of any mismatch in expansion. Assure enough space for module expansion with increasing temperature.
- The manufacturer is not responsible for damage due to chemical corrosion. The user must provide suitable protection against corrosive agents such as moisture and condensation and any other harmful elements/compounds. Make certain to avoid corrosive atmospheres. According to the current state of LED technology, hydrogen sulfide (H₂S) causes accelerated corrosion which leads to shortened lifetime or premature failure. Sources of H₂S may be rubber, foam rubber, soft-foam tapes, rubber-based sealing, natural sources (e.g. sulfur springs), etc. To avoid H₂S from sulfur-vulcanized rubber use silicon-based materials or peroxide-crosslinked rubber instead. Follow the recommendations in the material datasheet of the rubber supplier.
- IP00 LED modules, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion. Conformal coating treatment is possible, however materials must be selected properly in order to avoid product damage or impaired performance; the user must also completely seal the cut parts (ends/edges).
- For applications involving exposure to humidity and dust the module must be protected by a fixture or housing with a suitable IP protection class.
- Consult OSRAM Technical Service for further advice.
- Only a qualified electrician may install the module.
- Handle with care and ensure that there is no mechanical product damage, including damage to invisible internal electronics parts.
- Exceeding maximum operating and storage temperature ratings can reduce the expected lifetime or even destroy the LED module. The temperature of the LED module must be measured at the T_c-point in accordance with EN 60598-1 under steady-state conditions, considering the worst case; drive all channels at 100 % power. Refer to the product drawing for the exact location of the T_c-point.
- Exceeding the maximum ratings for the operating voltage causes hazardous overload and will likely destroy the LED module.
- Installation of LED modules and connection to the power supply must comply with all applicable electrical and safety standards.
- Observe correct polarity and wiring diagrams! Incorrect polarity or wrong wiring can cause unpredictable permanent damage or even failure of the product.
- Never exceed the maximum operable length, including daisy-chaining connections.
- Always ensure electrical isolation between the LED module and the mounting surface, especially in the vicinity of connections or cut ends.
- IP00 LED modules are ESD-sensitive; take adequate precautions during installation and operation of the products.
- Use only SELV LED drivers in accordance with applicable lighting standards and LED module ratings. In order to safely operate OSRAM LED modules it is necessary to supply them with an electronically stabilized power supply providing protection against short circuits, overload and overheating. To simplify the approval process of the luminaire/installation, the electronic power supplies control gear for LED modules must bear the CE and ENEC marking. In Europe the Declarations of Conformity must include at least the following standards: EN 61347-2-13, EN 55015, EN 61547 and EN 61000-3-2. ENEC certification will be based on EN 61347-2-13 and EN 62384. OSRAM OPTOTRONIC LED drivers comply with all relevant standards and guarantee safe operation; see the relevant brochure for more detailed information about OSRAM OPTOTRONIC.
- Avoid installations in rural and urban areas with high industrial activity and heavy traffic (higher than class than 4C1 according IEC 60721-3) and as well as installation in spa, areas with chlorine atmosphere, direct exposure to blown sand.

DOWNLOADS

DOWNLOADS	
	User instruction LINEARlight FLEX Protect
	PRODUKTDATENBLATT 494747_Binning information - LF06S-P
	LDT file (Eulumdat) 722868_Eulumdat file LF06S-840-P
	Advertisements Light is freedom of design (EN)

VERPACKUNGSMFORMATIONEN

EAN	Verpackungseinheit (Stück pro Einheit)	Abmessungen (Länge x Breite x Höhe)	Bruttogewicht	Volumen
4052899092150	Faltschachtel 1	353 mm x 349 mm x 32 mm	809.00 g	3.94 dm ³
4052899092167	Versandschachtel 8	365 mm x 286 mm x 366 mm	6663.00 g	38.21 dm ³

Die genannten Produktnummern beschreiben die kleinste bestellbare Mengeneinheit. Eine Versandeinheit kann mehrere Einzelprodukte beinhalten. Als Bestellmenge verwenden Sie bitte das Ein- oder Mehrfache einer Versandeinheit.

Haftungsausschluss

Änderungen und Irrtümer vorbehalten. Vergewissern Sie sich, dass Sie immer den neuesten Stand verwenden.