

# ENEC LICENSE

License No. ENEC-03774-A1

Page 1/4

Date of Issue 2022-06-09


**License Holder** SIGNIFY NETHERLANDS B.V.  
HIGH TECH CAMPUS 48 EINDHOVEN 5656 AE  
THE NETHERLANDS

**Production site**

**Certification Mark** See Annex 1  
**Certified Product** Independent LED Module

**Model** Main series: **Fortimo LEDFlex S** xm ylm/m f d Ce Gg a  
See page 2 for additional Information

**Trademark** 

**Ratings** Voltage 24 V  P 17.24 W/m  
Ta -35~+50°C, tc max 75°C, IP 67, SELV input only  
See page 2 for additional Information

**Tested acc. to** EN IEC 62031:2020  
**Test Report No.** 4789995951.1-1 issued on 2022-04-13

**Additional Information** The report was revised to include administrative modifications.  
See page 3 for additional information

---

**Certification Manager**  
Jan-Erik Storgaard

**Certification Body**

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this License is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

UL International Demko A/S, Borupvang 5A, DK-2750  
Ballerup, Denmark, Tel. +45 44 85 65 65, info.dk@ul.com  
[www.ul.com](http://www.ul.com)



# ENEC LICENSE

License No. ENEC-03774-A1  
Page 2/4  
Date of Issue 2022-06-09

## Additional Model(s):

Series: Fortimo LEDFlex S xm ylm/m f d Ce Gg a

Product Key:

Main series: Fortimo LEDFlex S xm ylm/m f d Ce Gg a

Where:

x - Module length in m. one or two digits, may be 6 or 10.

y - Lumen output/m, three or four digits, maximum 2000.

f - Color of light (optional, for single channel f represents zcc of 3 digits, where z is CRI of LED divided by 10, minimum 8, cc is color temperature of LED divided by 100, maximum 65);

d - Flavor of light (optional, may be blank or "PW" or "WWR").

e - Minimum cuttable length in centimeter (1 to 2 digits, may be 5 or 10).

g - Generation (1 digit, may be 1).

a - Commercial suffix (optional).

Maximum ratings of the series:

Series	Model name on min. cuttable unit.	CCT [K] Max	Lumen/m Max.	Power [W/m] Max	DC Voltage [V]	Min. cuttable unit	Min. Module length	Max. Module length	tc [°C]	ta [°C]
Fortimo LEDFlex S xm ylm/m f d Ce Gg a	ylm/m f d	6500	2000	17.24	24	5cm	6m	10m	75	-35~+50

## Models used for the tests:

The complete tests have been performed on the following models which are the most representatives of all the series.

Model	Maximum ratings and characteristics
Fortimo LEDFlex S 6m 2000lm/m 830 C5 G1 (0.5 m)	24V== 17.24 W/m ta: -35~+50°C tc max: 75 °C IP67

## Certification Body

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this License is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).



# ENEC LICENSE

License No. ENEC-03774-A1  
Page 3/4  
Date of Issue 2022-06-09

## Additional information:

- Test results of assessment of blue light hazard are reported on separate test reports No. **4789995951.2\_1** according to IEC TR 62778: 2014. The modules are classified as RISK GROUP 0 UNLIMITED.
- The modules can be supplied only by SELV electronic LED controlgears separately approved according to IEC/EN 61347-2-13 and protected against output short-circuit and overload.
- The customer is obligated to add an appropriated cooling system to the LED module in order to not exceed tc value. Temperature test shall be performed on the final product to verify the effectiveness of this cooling system.
- The product under test is a constant voltage Independent LED module for linear lighting applications.
- The cord has been evaluated according to IEC/EN 60598 Clause 5.2.
- The thermal test according to IEC/EN 60598 Clause 12.4 has been conducted.
- The modules can be optionally provided with metal mounting rail, and tests were conducted without metal mounting rail.
- The product can be cut at one end and with end cap applied tightly by glue, the maximum use length shall not draw current exceeding 4.31A.
- The product can also be cut, with connectors applied for Cable-Strip, or Strip-Strip connection, sealed with glue, which is for built-in application only. The maximum use length shall not draw current exceeding 4.31A, and the construction has been qualified additionally according to IEC 60598-1 IP65.

This certificate replaces previous certificate no. ENEC-03774 dated 2021-10-20, due to

- Change factory address

---

## Certification Body

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this License is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).



# Annex 1 to License No.

## ENEC-03774-A1

Annex of the form of the Mark



15 is the identification number of the Certification Body

Size of the mark:

The size of the mark may be reduced on the condition that it remains legible and that the ratio  $b/a=1,7$  is kept.

---

**Certification Body**

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this License, in accordance with the ENEC Requirements. The Designated License holder is entitled to use the ENEC 15 Mark (as shown in annex 1) for the Certified Product manufactured at the production site(s) identified above in accordance with the ENEC Mark Service Agreement including without limitation the ENEC Mark Testing and Certification Services Service Terms. Only those Products bearing the ENEC Mark should be considered as being covered by UL's ENEC Mark Service. This License shall remain valid unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this License is amended or withdrawn prior the Date of Withdrawal of conflicting Standard(s).

