



[1] **EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 19 ATEX 0031** Issue: **1**

[4] Product: **Pendant LED light fitting**

Type: **PLFS-N 100 LED**

[5] Manufacturer: **TEPEX Ltd.**

[6] Product: **Medarska 69, 10090 Zagreb, Croatia**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 19CR031**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015 / A1:2018

EN 60079-28:2015

EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

[12] The marking of the product shall include the following:



II 2G Ex db eb op is IIC T6 Gb

II 2D Ex tb op is IIIC T85°C Db

Our ref.: 19.CRT.099

Date: 21.02.2020.



Fiditas d.o.o.
ZAGREB

FIDITAS Ltd.
Certification department

Approved:

Marino Kelava, M.E.Eng.

[13]

SCHEDULE

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 19 ATEX 0031**

[15] **Description of product**

Light fitting type PLFS-N 100 LED has single chamber in type of protection flameproof enclosure 'd' that contains LED source and LED driver with integrated OVC, OVP, OTP and additional overcurrent protection. The LED light fitting enclosure is closed with a threaded joint glass carrier assembly. The aluminium connection chamber is closed with a cover and fixed with screws.

The light fitting housing, glass carrier assembly, LED driver housing, and cover are made of aluminium alloy and a protective thermally treated borosilicate glass. The protective glass is cemented with a silicone adhesive for the aluminium frame and makes it an inseparable part.

For connection of external circuits light fitting has:

- the terminal box in type of protection increased safety 'e' with built in certified terminals (Manufacturer Connectwell industries Pvt; SIRA 16 ATEX 3170U; II 2G Ex eb IIC Gb), or
- adapter in type of protection "flameproof enclosures" and "increased safety" (manufacturer TEPEX Ltd., type ADP, FIDI 19 ATEX 0014X; II 2G Ex db eb IIC T6 Gb; II 2D Ex tb IIIC T85°C Db).

The electrical connection between the 'd' chambers of the LED source and the 'eb' terminal box is achieved via multi-wire bushing.

The cable entry in the terminal box is realized via the appropriate Ex eb / Ex tb cable gland. The unused entry of the connection chamber (if there is one) is closed with the Ex eb / Ex tb plug.

The adapter has specific condition of use:

- The adapter was tested with lower impact energy according to EN IEC 60079-0 and shall be installed in areas with a lower risk of impact.
- Cable gland of the adapter was tested with lower tensile force according to A.3.1.1. of standard EN IEC 60079-0 and is intended for entry of non-armoured permanently laid cables, therefore the user shall provide additional clamping of the cable outside the cable gland.

Technical data:

Rated voltage:	110 – 230 Vac 127-230 Vdc;
Rated power:	35 W; 60 W; 80 W or 100 W
Ambient temperature:	-20 °C to +50 °C (version with adapter ADP) -40 °C to +50 °C (version with "eb" terminal box)
Mechanical protection:	IP 66

Warning markings:

"DO NOT OPEN WHEN ENERGIZED"
„SEE INSTALLATION INSTRUCTION DOCUMENT“



[16] Confidential Report No. FIDI 19CR031

[16.1] Routine testing

The manufacturer shall carry out the following routine tests:

- mechanical strength in accordance with clause 16.1 of EN 60079-1 with static pressure not less than 19,2 bar:
 - o of each enclosure for light fitting intended for use at ambient temperature $T_a = -40^\circ\text{C}$;
 - o of batch sample of enclosure in accordance with clause 16.6 of EN 60079-1 for light fitting intended for use at ambient temperature $T_a = -20^\circ\text{C}$;
- dielectric strength test according to clause 6.1 of the standard EN IEC 60079-7.

[17] Specific Conditions of Use

None

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical description of pendant light fitting PLFS-N 100 LED	-	-	20.02.2020.
Certification drawings:	T17.04.00.00-1	-	20.02.2020.
	T17.04.00.00-2	-	20.02.2020.
	T17.04.00.00-3	-	20.02.2020.
	T17.04.00.00-4	-	20.02.2020.
Specification of certification drawings T17.04.00.00	-	-	20.02.2020.
Instruction for use of pendant light fitting PLFS-N 100 LED	TEPEX.RS.099	-	20.02.2020.

