



[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 0030** Issue: **1**

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

Type: **PLFS 50 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 19CR030**

[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 T80°C Db**

Our ref.: 19.CRT.027

Date: 06.02.2020.



**FIDITAS Ltd.**  
**Certification department**

Approved:

  
Marino Kelava, M.E.Eng.



[13]

**SCHEDULE**

 [14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 19 ATEX 0030**

 [15] **Description of product**

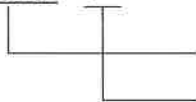
Enclosure of pendant light fitting PLFS 50 LED – 1, 2, 3 has one chamber in type of protection flameproof enclosure „d“ with overcurrent protection and LED driver.

Enclosure of pendant light fitting PLFS 50 LED - 4 has two chambers in type of protection flameproof enclosure „d“. The LED power source and the cooler (LED enclosure) are located in one, while LED power driver is located in other (BLF enclosure).

Terminal compartment is made in type of protection increased safety „e“. For electrical connection between „d“ chamber and „e“ terminal compartment and between two „d“ chambers certified multicore bushing (FIDI 19 ATEX 0013U; II 2G Ex db IIC Gb; I M2 Ex db I Mb) is used. Light fitting enclosure has threaded connection with glass frame with additional protection against self-loosening.

The enclosure, glass frame and terminal compartment cover are made of Al alloy. Glass cover is made of borosilicate tempered glass and permanently cemented with its frame. All enclosure joints have silicone gasket elements. Basic type of light fitting does not have glass protection guard.

For cable entry separately certified cable glands or stopping plug in type of protection increased safety 'eb' shall be used.

**Marking:**
**PLFS 50 LED**


Basic type marking

Designation of power source

- 1 – 35 W (Ta= -40°C to +60°C)

- 2 – 50 W (Ta= -40°C to +55°C)

- 3 – 60 W (Ta= -40°C to +50°C)

- 4 – 80 W (Ta= -40°C or -20°C to +40°C)

**Tehnički podaci:**

Rated voltage: 230 V AC; 50 Hz;

|        |      |   |               |
|--------|------|---|---------------|
| Power: | 35 W | - | PLFS 50 LED-1 |
|        | 50 W | - | PLFS 50 LED-2 |
|        | 60 W | - | PLFS 50 LED-3 |
|        | 80 W | - | PLFS 50 LED-4 |

Mechanical protection: IP 66

**Warning markings at light fitting enclosure:**

„DO NOT OPEN WHEN ENERGIZED“

„SEE INSTALLATION INSTRUCTION DOCUMENTS“

„AFTER DE-ENERGIZING, DELAY 5 MINUTES BEFORE OPENING“



**Warning markings at driver enclosure:**

- „DO NOT OPEN WHEN ENERGIZED“
- „SEE INSTALLATION INSTRUCTION DOCUMENTS“
- „DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT“

**[16] Confidential Report No.** FIDI 19CR030

**[16.1] Routine testing**

The manufacturer shall carry out the following routine tests:

- mechanical strength of enclosure in accordance with clause 16.1 of EN 60079-1 with static pressure:
  - o not less than 18,5 bar for enclosure of light fitting type PLFS 50 LED;
  - o not less than 21,5 bar for enclosure of driver BLF intended for use at Ta= -40°C (enclosure of driver BLF intended for use at Ta= -20°C was type tested with four times reference pressure so routine test is not required);
- 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 light fitting PLFS 50 LED                                     | -                                                  | -           | 31.01.2020. |
| Certification drawing of light fitting PLFS 50 LED – 4                                 | T17.03.03.00-1<br>T17.03.03.00-2                   | -<br>-      | 31.01.2020. |
| Description of certification drawings T17.03.03.00, light fitting PLFS 50 LED - 4      | -                                                  | -           | 31.01.2020. |
| Certification drawing of light fitting PLFS 50 LED – 1, 2, 3                           | T17.02.03.00-1<br>T17.02.03.00-2<br>T17.02.03.00-3 | -<br>-<br>- | 31.01.2020. |
| Description of certification drawing sT17.02.03.00 light fitting PLFS 50 LED – 1, 2, 3 | -                                                  | -           | 31.01.2020. |
| Instruction for use of light fitting PLFS 50 LED                                       | TEPEX.RS.099                                       | 2           | 31.01.2020. |