



[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 0047** Issue: **1**

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

Type: **PLFM ...-**

[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 19CR047**

[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 60079-31:2014

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 these products. These are not covered by this certificate.

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



II 2G Ex db eb IIC T6...T3 Gb

or

II 2G Ex db IIC T6...T3 Gb

II 2D Ex tb IIIC T85°C...T155°C Db

Our ref.: 19.CRT.027

Date: 10.04.2020.



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 0047

[15]

Description of product

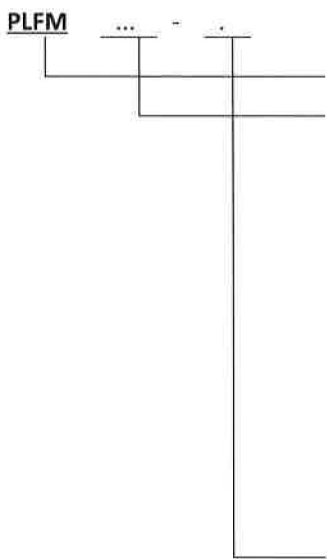
Pendant light fitting is designed in type of protection flameproof enclosure "db" and protection by enclosure "tb". The light fitting enclosure is connected by thread joint with glass bracket assembly. The light fitting can be designed with:

- terminal box in the type of protection increased safety "eb" and protection by enclosure "tb" (manufacturer Bartec Varnost Ltd. Slovenia, type:07-5195-0800/7555, PTB 08 ATEX 1062U; II 2G Ex e IIC Gb; II 2D Ex tb IIIC Db);
- adapter in type of protection flameproof enclosure "db", increased safety "eb" and protection by enclosure "tb" (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) or
- with a direct cable entry into flameproof enclosure „db“/ protection by enclosure "tb" through certified "db/tb" cable gland.

The adapter has specific condition of use:

- The adapter was tested with lower impact energy and according to EN IEC 60079-0 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.

Marking:



Basic type code

Rated power and type of light source

- 100** - A light bulb 100 Wmax,
- A ECO halogen light bulb 105 Wmax
- QT halogen light bulb 100 Wmax
- 100/1** - LME light bulb with mixed light 100 Wmax
- 100/2** - TC-SB compact fluorescent bulb 23 Wmax
- 100/3** - LED BULB 15 Wmax
- 20 LED** - LED MODULE 20 Wmax
- FLASH** - XENON/LED MODULE 5 Wmax
- 70 HSE** -HSE-I-sodium lamp 70W
-HSE-I-sodium lamp 50W

Cable entry

- 1** - version with "eb/tb" terminal box
- 2** - version with "db eb/tb" adapter ADP 23/1
- 3** - version with "db/tb" cable gland





Table with types of light fitting

Type code	Nominal voltage	Temp. class (gas)	T _{MAX} (dust)
PLFM 100 -.	230 Vac	T4	130°C
PLFM 70 HSE -.	230 Vac	T4	130°C
PLFM 100/1 -.	230 Vac	T3	155°C
PLFM 100/2 -.	230 Vac	T6	85°C
PLFM 100/3 -.	230 Vac	T6	85°C
PLFM 20 LED -.	230 Vac	T6	85°C
PLFM FLASH -.	10 - 100 Vdc	T6	85°C
	110 Vac		
	230 Vac		

Technical data:

Rated voltage: 10-100 Vdc, 110 Vac, 230Vac
 Rated power: 5 W - 116 W
 Ambient temperature: -20°C to +40°C
 Mechanical protection: IP 66

Warning marking:

- "WARNING - DO NOT OPEN WHEN ENERGIZED"
- "WARNING - AFTER DE-ENERGIZING DELAY 5 MINUTES BEFORE OPENING"
- "WARNING – SEE INSTALLATION INSTRUCTION DOCUMENT"
- "WARNING -DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT"
- " WARNING - USE THE CABLE SUITABLE FOR A MINIMUM TEMPERATURE +90°C"
(only for light fittings type PLFM 100/1-3)
- " WARNING - USE THE CABLE SUITABLE FOR A MINIMUM TEMPERATURE +140°C"
(only for light fittings type PLFM 70 HSE-3)

[16] Confidential Report No. FIDI 19CR047

[16.1] Routine testing

The manufacturer shall carry out routine tests:

- static overpressure test of enclosure in accordance with cl. 16.1 of standard EN 60079-1 with pressure not less than 13 bar;
- dielectric strength test according to clause 7.1 of the standard EN IEC 60079-7 (only for pendant light fitting with terminal compartment in type of protection increased safety "eb").





[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, type PLFM...-	-	-	10.04.2020.
Certification drawing of light fitting type PLFM 100-1, PLFM 100/3-1	43.03.01.00-1	-	10.04.2020.
Certification drawing of light fitting type PLFM 100/1-1	43.03.01.00-2	-	10.04.2020.
Certification drawing of light fitting type PLFM 100/2-1	43.03.01.00-3	-	10.04.2020.
Certification drawing of light fitting type PLFM 20 LED-1	43.03.01.00-4	-	10.04.2020.
Certification drawing of light fitting type PLFM FLASH-1	43.03.01.00-5	-	10.04.2020.
Certification drawing of light fitting type PLFM 70 HSE-1	43.03.01.00-6	-	10.04.2020.
Description of certification drawing for pendant light fitting PLFM ...-	-	-	10.04.2020.
Instructions for use, type PLFM...-	TEP Ex.RS.009	03	10.04.2020.

