



[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 0036**

Issue: **1**

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

Type: **PLFS-N/ . / ...**

[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 19CR036**

[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 this 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...T195°C Db

Our ref.: 19.CRT.027

Date: 03.04.2020.



FIDITAS Ltd.
Certification department

Approved:

Marino Kelava, M.E.Eng.



[13]

SCHEDULE

[14] EU - TYPE EXAMINATION CERTIFICATE No.:

FIDI 19 ATEX 0036

[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 and protection by enclosure with certified terminals (Manufacturer Connectwell industries Pvt; SIRA 16 ATEX 3170U; II2G Ex eb IIC Gb)
- adapter in type of protection flameproof enclosure, increased safety and protection by enclosure (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:

PLFS-N / . /

Basic type-mark

Type of cable entry

- 1** – design with „eb/tb” terminal box
- 2** – design with connection by „db eb/tb” adapter (multi-core bushing with terminal compartment)
- 3** - design with a direct cable entry using „db/tb” cable gland M20x1,5
- 4** - design with a direct cable entry using „db/tb” cable gland NPT 1/2"

Type of lighting source

- 30 TC-SB** - 30W compact fuorescent lamp, lampholder E27
- 160 LME** - 160W mixed lamp, lampholder E27
- 150 QT** - 150W halogen lamp, lampholder E27
- 205 QT** - 205W halogen lamp, lampholder E27
- 70 HSE/I** - 70W high pressure sodium lamp with integrated ignitor, lampholder E27
- 125 HME** - 125W high pressure mercury lamp, lampholder E27
- 110 HSE** - 110W high pressure sodium lamp, lampholder E27
- 70 HIE** - 70W metalhalide lamp, lampholder E27
- 70 HSE** - 70W high pressure sodium lamp, lampholder E27
- 100 HIE** - 100W metalhalide lamp, lampholder E27 or E40
- 100 HSE** - 100W high pressure sodium lamp, lampholder E40
- 150 HIE** - 150W metalhalide lamp, lampholder E27 or E40
- 150 HSE** - 150W high pressure sodium lamp, lampholder E40





Technical data:

Rated voltage: 230 V AC; 50/60 Hz;
Ambient temperature: -20 °C to +50 °C (version with adapter ADP)
-40 °C to +50 °C (version with "eb/tb" terminal box or direct cable entry)
Mechanical protection: IP66

Temperature class and maximum surface temperature of light fitting depends on power and lighting source type and depends on maximum permitted ambient temperature.

Type	Max. power and mark of lighting source	Lamp-holder	Temperature class for $T_{a \max}$		Maximum surface temperature for $T_{a \max}$	
			40 °C	50 °C	40 °C	50 °C
PLFS-N/. / 30 TC-SB	30W TC-SB	E27	T6	-	85 °C	-
PLFS-N/. / 160 LME	160W LME	E27	T5	T4	95 °C	130 °C
PLFS-N/. / 150 QT	150W QT	E27	T4	T4	130 °C	130 °C
PLFS-N/. / 205 QT	205W QT	E27	T3	-	195 °C	-
PLFS-N/. / 70 HSE/I	70W HSE/I	E27	T5	T4	95 °C	130 °C
PLFS-N/. / 125 HME	125W HME	E27	T4	T4	130 °C	130 °C
PLFS-N/. / 110 HSE	110W HSE	E27	T5	T4	95 °C	130 °C
PLFS-N/. / 70 HIE	70W HIE	E27	T5	T4	95 °C	130 °C
PLFS-N/. / 70 HSE	70W HSE	E27	T5	T4	95 °C	130 °C
PLFS-N/. / 100 HIE	100W HIE	E27	T5	T4	95 °C	130 °C
PLFS-N/. / 100 HSE	100W HSE	E40	T5	T4	95 °C	130 °C
PLFS-N/. / 100 HIE	100W HIE	E40	T5	T4	95 °C	130 °C
PLFS-N/. / 150 HIE	150W HIE	E27	T4	-	130 °C	-
PLFS-N/. / 150 HSE	150W HSE	E40	T4	-	130 °C	-
PLFS-N/. / 150 HIE	150W HIE	E40	T4	-	130 °C	-

For the type of lamps PLFS-N / 3/205 QT and PLFS-N / 4/205 QT at the highest permissible ambient temperature $T_{a \max} = 40^{\circ}\text{C}$, cable suitable for a minimum temperature of 90°C shall be used and for the type of lamps PLFS-N/3/205QT and PLFS-N/4/205QT at a maximum permissible ambient temperature $T_{a \max} = 50^{\circ}\text{C}$, cable suitable for a minimum temperature of 100°C shall be used.

Warning marking:

- "WARNING - DO NOT OPEN WHEN ENERGIZED"
- "WARNING – SEE INSTALLATION INSTRUCTION DOCUMENT"
- "WARNING - AFTER DE-ENERGIZING DELAY 10 MINUTES BEFORE OPENING"
- " WARNING - USE THE CABLE SUITABLE FOR A MINIMUM TEMPERATURE +90°C"
- (only for light fittings type PLFS-N/3/205 QT and PLFS-N/4/205 QT and $T_{a\ max} = 40^{\circ}C$)
- " WARNING - USE THE CABLE SUITABLE FOR A MINIMUM TEMPERATURE +100°C"
- (only for light fittings type PLFS-N/3/205 QT and PLFS-N/4/205 QT and $T_{a\ max} = 50^{\circ}C$)

[16] Confidential Report No. FIDI 19CR036

[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 22,2 bar,
- dielectric strength test according to clause 7.1 of the standard EN IEC 60079-7 (only for type PLFS-N/1 and PLFS-N/2 in type of protection increased safety).

[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 Ex-protected pendant light fitting, type PLFS-N	-	-	01.04.2020.
Certification drawing of light fitting type PLFS-N	T 11.05.00.00-1	-	01.04.2020.
Certification drawing of light fitting type PLFS-N	T 11.05.00.00-2	-	01.04.2020.
Certification drawing of light fitting type PLFS-N	T 11.05.00.00-3	-	01.04.2020.
Certification drawing of light fitting type PLFS-N	T 11.05.00.00-4	-	01.04.2020.
Certification drawing of light fitting type PLFS-N	T 11.05.00.00-5	-	01.04.2020.
Certification drawing of light fitting type PLFS-N	T 11.05.00.00-6	-	01.04.2020.
Description of certification drawing T 11.05.00.00-1 ... 5 pendant light fitting, type PLFS-N	-	-	01.04.2020.
Instructions for use of Ex-protected pendant light fitting type PLFS-N	TEPEX.RS.095	1	01.04.2020.