

[1]

EC – TYPE EXAMINATION CERTIFICATE[2] Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC[3] EC-Type Examination Certificate Number: **EXA 15 ATEX 0050X** Issue: 1[4] Equipment or Protective System: **Light fitting**Type: **FLX 310 LED / .**[5] Manufacturer: **TEPEX Ltd**[6] Address: **Medarska 69, 10090 Zagreb, Croatia**

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

[8] Ex-Agencija, Notified Body number 2465 according to Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in confidential report number: **EXA 15CR065**[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012/A11:2013 EN 60079-1:2007 EN 60079-7:2007 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 equipment or protective system is subject to specific conditions for safe use specified in the schedule to this certificate.

[11] This EC-Type Examination Certificate relates only to the design, examination and test of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

**II 2G Ex d e IIC T6 Gb
II 2D Ex tb IIIC T80°C Db**

or

**II 2G Ex d IIC T6 Gb
II 2D Ex tb IIIC T80°C Db**

Date: 07.10.2015

PB.15.TC.846/DK

Prepared:

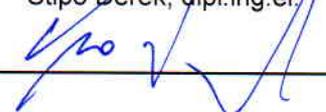
Damir Korunić, dipl.ing.el.

**Ex-Agencija**

Department of equipment certification

Approved:

Stipo Đerek, dipl.ing.el.



[13]

SCHEDULE

 [14] **EC - TYPE EXAMINATION CERTIFICATE No.:** EXA 15 ATEX 0050X

[15] Description of Equipment or Protective System

LED light fitting, type: FLX 310 LED is designed in type of protection flameproof enclosure 'd'. Cable connection is provided through Ex d e adapter type ADP 24/1 or type ADP 23/1; EXA 14 ATEX 0043U (mark of protection II 2G Ex d e IIC Gb) or separately certified Ex d cable gland.

Technical data:

Nominal voltage: 230 V AC
 Nominal power: 25 W
 Power factor: $\cos \varphi \geq 0.99$
 Power and light source type: LED 3 X 8.8 W
 Luminous flux: 3100 lm at $T_a = 25^\circ\text{C}$
 $T_a: -20^\circ\text{C do } +50^\circ\text{C}$

Marking:

FLX 310 LED/
Basic type-mark
Type of connection

- **0** – Ex d cable entry 2 x M20, ISO 965-1, ISO 965-3
- **1** – Ex d cable entry 2 x 3/4"NPT, ANSI/ASME B1.20.1
- **2** – Ex d cable entry 2 x M20, ISO 965-1, ISO 965-3 mounted with Ex d e adapter type ADP 24/1 and with Ex d plug
- **3** – Ex d cable entry mounted with 2 adapters type ADP 23/1

Minimum permitted width of joint (L):

Flameproof joint	Joints dimensions [mm]				
	L	c	d	Pitch	i_{max}
Enclosure – cover (M120x1,5 – 6H/6g)	18	/	/	2	/
Enclosure – adapter ADP 24/1, ADP 23/1, cable gland or plug (M20x1,5 – 6H/6g)	12	/	/	1,5	/
Enclosure – cable gland or plug (3/4"NPT – ANSI/ASME B.1.20.1)	12	/	/	/	/

[15.1] Documentation

Title:	Drawing No.:	Rev. level:	Date:
Technical description of explosion proof LED light fitting FLX 310 LED/.	-	-	01.09.2015
Certification drawing of light fitting FLX 310 LED	T 16.09.01.00-1	-	01.09.2015
Certification drawing of light fitting FLX 310 LED	T 16.09.01.00-2	-	01.09.2015
Description of certification drawings T 16.09.01.00-1 and T 16.09.01.00-2 light fitting FLX 310 LED	-	-	01.09.2015
Instructions for use for explosion proof light fitting FLX 310 LED	TEPEX.RS.065	1	08.2015

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[16] Confidential Report No. EXA 15CR065

[16.1] Routine testing

The manufacturer shall carry out the following routine tests:

- overpressure test according to standard EN 60079-1, item 16.1 with static pressure not less than 19,1 bar in a period of at least 10 s,
- dielectric strength test according to standard EN 60079-7 cl. 7.1 s with test voltage applied $(2U_n+1000)$ V but not less than 1500 V for a period at least 60 s or with $1.2 \times (2U_n+1000)$ V for a period at least 100 ms (only for light fitting type FLX 310 LED / 2 and FLX 310 LED / 3).

[17] Specific Conditions for Safe Use 'X'

The adapter of the emergency light fitting type FLX 310 LED / 2 and FLX 310 LED / 3 shall be protected from mechanical impact because it was tested with lower impact energy according to EN 60079-0.

For emergency light fitting type FLX 310 LED / 2 and FLX 310 LED / 3 user shall provide additional clamping of the cable outside the cable gland because the cable gland of adapter was tested with lower tensile force according to A.3.1.1. of standard EN 60079-0.

[18] Essential Health and Safety Requirements

Covered by the standards listed at item 9.

