



[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 23 ATEX 0047**

Issue: **1**

[4] Product: **LED luminaire**

Type: **FLXL .. LED -.**

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

[6] Address: **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 23 CR 056**

[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 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 Gb or **II 2G Ex db IIC T6 Gb**
II 2D Ex tb IIIC T80°C Db

Our ref.: 22.CRT.395

Date: 28.04.2023



Fiditas d.o.o.
ZAGREB

FIDITAS Ltd.
Certification department

Approved:

Marino Kelava, M.E.Eng.

[13]

SCHEDULE

 [14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 23 ATEX 0047**

 [15] **Description of product**

LED luminaire type FLXL..LED is constructed with one chamber in the type of protection flameproof enclosure "d". The chamber is made of a glass tube, at the ends cemented into a metal housing case, which is closed with a threaded cover. The connecting rods between the metal ends of the housing relieve the cemented joint from mechanical stress. Silicone gaskets are provided on the covers to provide IP protection. Inside the case is a LED module with LED driver with integrated OVP/OCP/OTP protection. The luminaire can be further fitted with a protective grid and an external reflector.

For cable entry, the use of separately certified cable glands designed as flameproof enclosure "d" in accordance with EN 60079-1 or a certified adapter manufactured by TEPEX, type: ADP, FIDI 19 ATEX 0014X; II 2G Ex db eb IIC T6 Gb; II 2D Ex tb IIIC T85°C Db.

In the version with the adapter, the installer must provide additional cable anchoring and protect the adapter from mechanical impact.

Marking:
FLXL .. LED - .

Basic marking code:

18 - 18 W

36 - 36 W

55 - 55 W

Cable entry designation:

0 - 'Ex db' cable entry 2×M20, ISO 965-1, ISO 965-3

1 - 'Ex db' cable entry 2×3/4"NPT, ANSI/ASME B1.20.1

2 - Ex db' cable entry 2×M20, ISO 965-1, ISO 965-3 with one 'Ex db eb' adapter type ADP 23/1 and one „db" stopping plug

3 - 'Ex db' cable entry 2× M20, ISO 965-1, ISO 965- with one 'Ex db eb' adapter type ADP 23/1 and one ADP 22/1 for DALI connection

4 - 'Ex db' cable entry 2×M20, ISO 965-1, ISO 965-3 with two Ex db eb' adapters type ADP 23/1 for trough-wiring

Technical data:

Rated voltage:	230 V AC
Rated power:	FLXL 18 LED: 18 W FLXL 36 LED: 36 W FLXL 55 LED: 55 W
Ambient temperature:	-20°C to +50°C
Mechanical protection:	IP66

Warning markings:

"DO NOT OPEN WHEN ENERGIZED"

" DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT"

„SEE INSTALLATION INSTRUCTION DOCUMENT"

[16] Confidential Report No. FIDI 23 CR 056

[16.1] Routine testing

The manufacturer shall carry out the following routine tests:

- static overpressure test of enclosure accordance to cl. 16.1 of standard EN 60079-1 with pressure:
 - not less than 19,1 bar for type FLXL18LED and FLXL36LED
 - not less than 13,7 bar for type FLXL55LED
- dielectric strength test according to clause 6.1 of the standard EN IEC 60079-7 for version of luminaire with terminal compartment 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	/	/	28.04.2023
Instruction for use	TEPEX.RS.123	0	28.04.2023
Certification drawings:			
FLXL 18 LED	T16.10.01.00-1	/	28.04.2023
FLXL 36 LED	T16.10.01.00-2	/	28.04.2023
FLXL 55 LED	T16.10.01.00-3	/	28.04.2023
FLXL .. LED	T16.10.01.00-4	/	28.04.2023
Description of certification drawings	T16.10.01.00-1-2-3-4	/	28.04.2023