



[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 0029** Issue: **1**

[4] Product: **Linear LED light fitting**

Type: **PSF .. 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 19CR029**

[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 60079-18:2015 / A1:2017**

**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 mb op is IIC T4 Gb**  
**II 2D Ex tb op is IIIA T80°C Db**

or

**II 2G Ex db eb mb op is IIC T4 Gb**  
**II 2D Ex tb op is IIIC T80°C Db**

Our ref.: 19.CRT.027

Date: 18.02.2020.



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

Approved:

Marino Kelava, M.E.Eng.



[13]

**SCHEDULE**

[14]

**EU - TYPE EXAMINATION CERTIFICATE No.:**

**FIDI 19 ATEX 0029**

[15] **Description of product**

Enclosure of linear LED light fitting type PSF .. LED/ . is designed in type of protection increased safety "eb". The enclosure is made of fiberglass reinforced polyester and the protective cover is made of polycarbonate with central locking using a SW8 socket wrench.

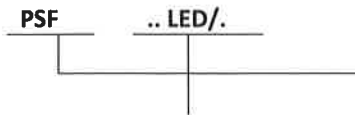
The following components are mounted inside the enclosure of LED light fitting type PSF 28 LED and type PSF 52 LED:

- LED module with thermal protection, manufacturer TEPEX, type: LEDEX 03; FIDI 19 ATEX 0018U, II 2G Ex mb op is IIC Gb;
- LED driver with overcurrent protection, manufacturer TEPEX, type: DRIVEx 01; FIDI 19 ATEX 0019U, II 2G Ex db IIC Gb;
- interlocking switch manufacturer, TEPEX, type: PBT; FIDI 19 ATEX 0001U, II 2G Ex db eb IIC Gb and
- terminals, manufacturer CONNECTWELL INDUSTRIES Pvt, type: CMB; SIRA 16 ATEX 3170U, II 2G Ex eb IIC Gb

The following components are mounted inside the enclosure of LED light fitting type PSF 28 LED/E and type: PSF 52 LED/E:

- LED module with thermal protection, manufacturer TEPEX, type: LEDEX 03; FIDI 19 ATEX 0018U, II 2G Ex mb op is IIC Gb;
- LED driver with overcurrent protection manufacturer TEPEX, type: DRIVEx 02; II 2G Ex db IIC Gb;
- battery module, manufacturer TEPEX, type: BATEX 02, II 2G Ex eb IIC Gb;
- battery protection module, manufacturer TEPEX, type: BSM, II 2G Ex db eb IIC Gb;
- LED display, manufacturer TEPEX, type: LEDEX 02; FIDI 19 ATEX 0005U, II 2G Ex mb IIC Gb;
- interlocking switch, manufacturer TEPEX, type: PBT; FIDI 19 ATEX 0001U, II 2G Ex db eb IIC Gb and
- terminals, manufacturer CONNECTWELL INDUSTRIES Pvt, type: CMB; SIRA 16 ATEX 3170U, II 2G Ex eb IIC Gb

Separately certified cable glands in type of protection increased safety 'eb' and protection by enclosure 'tb' shall be used for cable entry.

**Marking:**

**Basic type code**
**Enclosure size and type of built in components**

- **28 LED/1** - enclosure size PSF 218  
 components: LEDEx 03/28-1, DRIVEx 01/28-1
- **28 LED/2** - enclosure size PSF 218  
 components: LEDEx 03/28-2, DRIVEx 01/28-2
- **52 LED/1** - enclosure size PSF 236  
 components: LEDEx 03/52-1, DRIVEx 01/52-1
- **52 LED/2** - enclosure size PSF 236  
 components: LEDEx 03/52-2, DRIVEx 01/52-2
- **28 LED/E** - enclosure size PSF 218  
 components: LEDEx 03/28-1, DRIVEx 02 i BATEx 02
- **52 LED/E** - enclosure size PSF 236  
 components: LEDEx 03/52-1, DRIVEx 02 i BATEx 02

**Technical data PSF 28 LED and PSF 52 LED:**

Rated voltage:	110 to 240 Vac 220 to 250 Vdc
Frequency:	50 Hz
Power:	type PSF 28 LED/1      28 W type PSF 28 LED/2      37 W type PSF 52 LED/1      52 W type PSF 52 LED/2      70 W
Ambient temperature:	-30°C / -20°C to +40°C / +55°C
Mechanical protection:	IP 55 for Tamin= -30°C IP 66 for Tamin= -20°C

**Technical data PSF 28 LED/E and PSF 52 LED/E:**

Rated voltage:	230 Vac
Frequency:	50 Hz
Power:	type PSF 28 LED/E      28 W type PSF 28 LED/E      56 W
Ambient temperature:	-20°C to +40°C
Mechanical protection:	IP 66 for Tamin= -20°C

**Relation between product type, ambient temperature and Ex-marking**

Type of product	Ambient temperature	Ex marking
PSF 28 LED/2, PSF 52 LED/2	- 20°C to +40°C	II 2G Ex db eb mb op is IIC T4 Gb II 2D Ex tb op is IIIC T80°C Db
PSF 28 LED/1, PSF 52 LED/1	- 20°C to +55°C	
PSF 28 LED/2, PSF 52 LED/2	- 30°C to +40°C	II 2G Ex db eb mb op is IIC T4 Gb II 2D Ex tb op is IIIA T80°C Db
PSF 28 LED/1, PSF 52 LED/1	- 30°C to +55°C	
PSF 28 LED/E, PSF 52 LED/E	- 20°C to +40°C	II 2G Ex db eb mb op is IIC T4 Gb II 2D Ex tb op is IIIC T80°C Db

**WARNING MARKING:**

„POTENTIAL ELECTROSTATIC CHARGING HAZARD - CLEAN ONLY WITH A DAMP CLOTH!“

[16] **Confidential Report No.** FIDI 19CR029

[16.1] **Routine testing**

The manufacturer shall carry out routine test of dielectric strength 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 linear light fitting type PSF 28 LED, PSF 52 LED	-	-	14.02.2020.
Annex I of Technical description of linear light fitting type PSF 28 LED, PSF 52 LED	-	-	14.02.2020.
<b>Certification drawings:</b>			
Linear light fitting type PSF 52 LED	T14.50.01.00-1	-	14.02.2020.
Linear light fitting type PSF 28 LED	T14.50.01.00-2	-	14.02.2020.
Linear light fitting type PSF 52 LED	T14.50.01.00-3	-	14.02.2020.
Linear light fitting type PSF 28 LED	T14.50.01.00-4	-	14.02.2020.
Linear light fitting type PSF 52 LED	T14.50.01.00-5	-	14.02.2020.
Linear light fitting type PSF 28 LED	T14.50.01.00-6	-	14.02.2020.



Title:	Drawing No.:	Rev. level:	Date:
Linear light fitting type PSF 28 LED, PSF 52 LED	T14.50.01.00-7	-	14.02.2020.
Description of certification drawings T14.50.01.00-1/4	-	-	14.02.2020.
Emergency linear light fitting type PSF 28LED/E	T16.01.00.00-1	-	14.02.2020.
Emergency linear light fitting type PSF 52LED/E	T16.01.00.00-2	-	14.02.2020.
Emergency linear light fitting type PSF 28LED/E	T16.01.00.00-3	-	14.02.2020.
Emergency linear light fitting type PSF 52LED/E	T16.01.00.00-4	-	14.02.2020.
Emergency linear light fitting type PSF 28LED/E	T16.01.00.00-5	-	14.02.2020.
Emergency linear light fitting type PSF 52LED/E	T16.01.00.00-6	-	14.02.2020.
Emergency linear light fitting type PSF 28/52 LED/E	T16.01.00.00-7	-	14.02.2020.
Emergency LED driver DRIVEx 02	T16.01.00.00-8	-	14.02.2020.
Battery module BATEX 02	T16.01.00.00-9	-	14.02.2020.
Battery safety module BSM 01	T16.01.00.00-10	-	14.02.2020.
Emergency LED driver DRIVEx 02 – Electrical scheme	T16.01.00.00-11	-	14.02.2020.
Emergency LED driver DRIVEx 02 – Electrical scheme	T16.01.00.00-12	-	14.02.2020.
Battery safety module BSM 01 – Electrical scheme	T16.01.00.00-13	-	14.02.2020.
Battery safety module BSM 01 – Electrical scheme	T16.01.00.00-14	-	14.02.2020.
Battery safety module BSM 01 – Electrical scheme	T16.01.00.00-15	-	14.02.2020.
Description of certification drawings T16.01.01.00-1/15	-	-	14.02.2020.
Instructions for use of linear light fitting type PSF 28 LED, PSF 52 LED	TEPEX.RS.095	0	14.02.2020.

