



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx FIDI 25.0002**

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[Certificate history](#)

Status: **Current**

Issue No: 0

Date of Issue: 2025-01-31

Applicant: **TEPEX d.o.o.**  
Medarska 69  
Hr-10090 Zagreb  
Croatia

Equipment: **Linear LED light fitting type: PSF ..LED/.**

Optional accessory:

Type of Protection: **Flameproof enclosure 'db'; Increased safety 'eb'; Encapsulation 'mb'; optical protection 'op is'; Protection by enclosure 'tb'**

Marking: **Ex db eb mb op is IIC T4 Gb  
Ex tb op is IIIA/IIIC T80°C Db**

Approved for issue on behalf of the IECEx  
Certification Body:

**Marino Kelava**

Position:

**Certification Signatory**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Fiditas Ltd**  
Slavka Tomerlina 44  
Zagreb-Sesvete HR-10361  
Croatia



**Fiditas**  
explosion safety solutions



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Date of issue: 2025-01-31

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Manufacturer: **TEPEX d.o.o.**  
Medarska 69  
Hr-10090 Zagreb  
**Croatia**

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:7.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"

Edition:4.1

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

Edition:2

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[HR/FIDI/ExTR24.0031/00](#)

Quality Assessment Report:

[IT/CES/QAR16.0001/08](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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 TEPEEx, type: LEDEEx 03; Ex mb op is IIC Gb
- LED driver with overcurrent protection, manufacturer TEPEEx, type: DRIVEx 01; Ex db IIC Gb
- interlocking switch manufacturer, TEPEEx, type: PBT; Ex db eb IIC Gb
- terminals, manufacturer CONNECTWELL INDUSTRIES Pvt, type: CMB; IECEx SIR 20.0046U, 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 TEPEEx, type: LEDEEx 03; Ex mb op is IIC Gb
- LED driver with overcurrent protection manufacturer TEPEEx, type: DRIVEx 02; Ex db IIC Gb
- battery module, manufacturer TEPEEx, type: BATEx 02, Ex eb IIC Gb
- battery protection module, manufacturer TEPEEx, type: BSM, Ex db eb IIC Gb
- LED display, manufacturer TEPEEx, type: LEDEEx 02; Ex mb IIC Gb
- interlocking switch, manufacturer TEPEEx, type: PBT; Ex db eb IIC Gb
- terminals, manufacturer CONNECTWELL INDUSTRIES Pvt, type: CMB; IECEx SIR 20.0046U, Ex eb IIC Gb

Above specified components, except terminals, are certified with this linear LED light fitting, Ex component certificate is not issued.

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

For other details see annex.

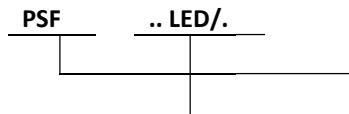
## SPECIFIC CONDITIONS OF USE: NO

### Annex:

[IECEx FIDI25.0002\\_0 Annex1.pdf](#)

Continued from original certificate

**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 and BATEx 02
- **52 LED/E** - enclosure size PSF 236
  - components: LEDEx 03/52-1, DRIVEx 02 and BATEx 02

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

Rated voltage:	110 to 240 V AC
	220 to 250 V DC
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
Ingress protection:	IP 55 for T <sub>min</sub> = -30°C
	IP 66 for T <sub>min</sub> = -20°C

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

Rated voltage:	230 V AC
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
Ingress protection:	IP 66 for T <sub>min</sub> = -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	Ex db eb mb op is IIC T4 Gb 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	Ex db eb mb op is IIC T4 Gb 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	Ex db eb mb op is IIC T4 Gb Ex tb op is IIIC T80°C Db

## WARNING MARKING:

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