



# 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 FTZU 25.0016X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-06-27

Applicant: **doublepower!! s.r.o.**  
Bilkova 856/18  
Praha 1 110 00  
**Czech Republic**

Equipment: **LED luminaire, type SEA EX 1/21 series**

Optional accessory:

Type of Protection: **Flameproof enclosure "db", increased safety "eb", optical radiation "op is", protection by enclosure "tb"**

Marking: Ex db eb op is IIC T6...T5 Gb or  
Ex db eb op is IIB+H<sub>2</sub> T6...T5 Gb or  
Ex db eb op is IIB T6...T5 Gb  
Ex tb op is IIIC T85°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Dipl. Ing. Lukáš Martinák**

Position:

**Head of the Certification Body**

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:

**Fyzikálně technický zkusební ústav**  
(Physical -Technical Testing Institute)  
Pikartská 7, 71607 Ostrava - Radvanice  
**Czech Republic**





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Date of issue: 2025-06-27

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Manufacturer: **doublepower!! s.r.o.**  
Dubská 1011  
Kladno 272 03  
**Czech Republic**

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 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

[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:

[CZ/FTZU/ExTR25.0016/00](#)

Quality Assessment Report:

[CZ/FTZU/QAR25.0003/00](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

LED luminaire type SEA EX 1/21 consists of parts: luminaire body (transparent part) made of glass tube with internal aluminium profile with cemented side cover on one side and on the other side with cemented cover with connection space fitted with cover. The end sections are made of aluminium alloy and are fixed to each other by threaded rods passing through the aluminium support profile. The light transmitting part is designed in protection Ex db and the connecting part in protection Ex eb. The connection of the power supply driver is made via an Ex threaded line bushing in protection Ex db. Another threaded hole is optionally fitted with a breathing device in protection Ex db. or an Ex blanking element. The connection space is provided with threaded inlets for Ex cable glands or Ex blanking elements and Ex terminal block for wire connection. The cover is fitted with an Ex eb vent valve and sealed and secured with four fixing screws. The electronic driver and LED modules are installed on the aluminium profile. The luminaire is manufactured in a length of 1182 mm.

## Electrical parameters:

Un = 230V AC 50/60Hz;

In = 375 mA; Pn = 58 W or

In = 275 mA; Pn = 44 W or

In = 180 mA; Pn = 30 W

Verified degree of IP protection: IP66; IP 68

Type coding of luminaire – see Annex to the certificate No. IECEX FTZU 25.0016X, Issue 00.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Ambient temperature range:  $-20\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$ ;  
 $-20\text{ }^{\circ}\text{C} \leq T_a \leq +50\text{ }^{\circ}\text{C}$

Type coding of luminaire – see Annex to the certificate No. IECEX FTZU 25.0016X, Issue No: 0.

2. The sight glass of the luminaire must only be cleaned with a damp cloth.
3. Verified values of the maximum gaps and minimum constructional length of flameproof joints of this equipment differing from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.
4. The luminaire shall be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
5. The luminaire may be equipped with Ex equipment cable glands or Ex equipment blanking elements with type of Ex-protection Ex eb and Ex tb with minimum IP code IP 64.

## Annex:

[Annex\\_to\\_IECEX\\_FTZU\\_25\\_0016X\\_0.pdf](#)



Annex to Certificate of Conformity  
IECEx FTZU 25.0016X Issue No: 0

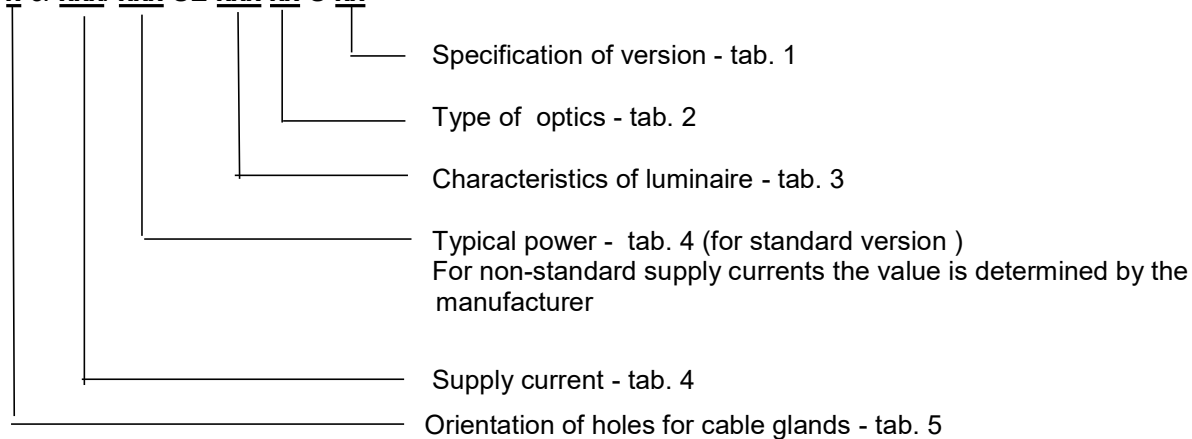


Applicant: doublepower!! s.r.o.  
Address: Bilkova 18, 110 00 Praha 1, Czech republic

Electrical Apparatus: LED luminaire, type SEA EX 1/21 series

**Type coding of luminaire:**

**E1-XSA/ x-3/ xxx/ xxx-SE-xxx-xx-S-xx**



| Specification<br>of version | Group                             | Protection<br>against<br>condensation | Group II           |                    | Group III           |                    |
|-----------------------------|-----------------------------------|---------------------------------------|--------------------|--------------------|---------------------|--------------------|
|                             |                                   |                                       | Temperature class  |                    | Surface temperature |                    |
|                             |                                   |                                       | Ta (°C)<br>-20/+40 | Ta (°C)<br>-20/+50 | Ta (°C)<br>-20/+40  | Ta (°C)<br>-20/+50 |
| 01                          | IIC <sup>[1]</sup>                | No                                    | T6                 | T6                 | 85 °C               | 85 °C              |
| 02                          | IIC <sup>[2]</sup>                | Yes                                   |                    | T5                 |                     |                    |
| 03                          | IIB+H <sub>2</sub> <sup>[3]</sup> | Yes                                   |                    |                    |                     |                    |
| 04                          | IIB <sup>[4]</sup>                | Yes                                   |                    |                    |                     |                    |

tab. 1

|     |   |      |                  |               |            |
|-----|---|------|------------------|---------------|------------|
| [1] | - | Used | Blanking element | EATON         | CYA1200YXN |
| [2] | - | Used | Breathing device | nVent Hoffman | EXBDM20SS6 |
| [3] | - | Used | Breathing device | EATON         | BDU3004D0  |
|     |   | or   | Breathing device | EATON         | BDU1104D0  |
|     |   | or   | Breathing device | EATON         | BDU1204D0  |
| [4] | - | Used | Breathing device | EATON         | BDU1004D0  |

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Electrical Apparatus: LED luminaire, type SEA EX 1/21 series

| Type lens | Description                   |
|-----------|-------------------------------|
| FR        | Diffused lens                 |
| 40        | Lens with emitting angle 40°  |
| 60        | Lens with emitting angle 60°  |
| 90        | Lens with emitting angle 90°  |
| 120       | Lens with emitting angle 120° |

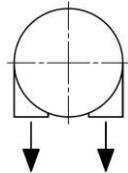
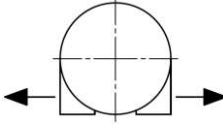
tab. 2

| Characteristics of luminaire | Color rendering index Ra | Correlated colour temperature (K) |
|------------------------------|--------------------------|-----------------------------------|
| 830                          | 80                       | 3000                              |
| 840                          |                          | 4000                              |
| 850                          |                          | 5000                              |
| 865                          |                          | 6500                              |
| 930                          | 90                       | 3000                              |
| 940                          |                          | 4000                              |
| 950                          |                          | 5000                              |
| 965                          |                          | 6500                              |

tab. 3

| Supply current (mA) *   | Typical power Consumption (W) ** |
|---|----------------------------------|
| 375   | 55                               |
| 275   | 41                               |
| 180   | 28                               |
| *Customizable from 375 mA to 100 mA (1mA step)<br>** For supply currents other than those listed, the manufacturer to determine the value |                                  |

tab 4

| Orientation of holes | Diagram   |
|----------------------|---|
| 1                    |  |
| 2                    |  |

tab. 5