



# 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 24.0004X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-05-07

Applicant: **VYRTYCH a.s.**  
Židněves 116  
Březno 294 06  
**Czech Republic**

Equipment: **Luminaire type BERGER-N-LED 2,21-Ta-x-y-zK-DIM DALI-nM**

Optional accessory:

Type of Protection: **Restricted-breathing enclosure "nR"; Dust protection "t"; Optical radiation protection "op"**

Marking: Ex nR IIC T6 Gc  
or  
Ex nR IIC T5 Gc  
see Specific conditions of use  
  
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.
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Certificate issued by:

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





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Manufacturer: **VYRTYCH a.s.**  
Židněves 116  
Březno 294 06  
**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 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

[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

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/ExTR24.0004/00](#)

Quality Assessment Report:

[CZ/FTZU/QAR22.0001/02](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The luminaire consists of two separate parts (light and driver part). The light part consists of an aluminium cooler, a silicone seal, an aluminium frame, a glass window and an LED module. The body of the radiator and the cover plate are connected by screws. The driver part is composed of an aluminium profile with side covers sealed with silicone gaskets fixed with screws and internal electrical equipment located on the mounting plate. Input of power supply cable is via Ex- threaded cable gland M20x1,5 or M25x1,5. Both parts are connected by cable via Ex - threaded cable glands M12x1.5. Unused inputs are blinded with Ex- threaded plugs. The driver part is the same for all variants of the luminaire, the number of separate modules of the lighting part can be changed in the range from one to a maximum of four modules, which are identical. The used optical system located on the LED module can be in the range of 30° to 90° or without an optical system. It is possible to use an adjustable boom or hanging eyes to attach the luminaire.

## Basic electrical parameters:

Nominal Voltage Un: 220-240 VDC or 220-240 VAC 50/60 Hz

Degree of protection: IP66

## Marking of luminaires:

### BERGER-N-LED 2,21-Ta-x-y-zK-DIM DALI-nM

- 2 - marking of zone with danger of explosion of inflammable gas and vapours
- 21 - marking of zone with danger of explosion of inflammable dust
- Ta - ambient temperature, which is luminaire intended for (°C)
- x - type of optical system
- y - marking of luminous flux value LED modules (lm)
- zK - correlated colour temperature (K)
- DIM DALI - marking of dimmable luminaire (option)
- nM - marking of the number of modules

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

1. Ambient temperature: -20°C ≤ Ta ≤ +70°C - for BERGER-N- LED-2,21-T70; Temperature class T5  
-20°C ≤ Ta ≤ +60°C - for BERGER-N- LED-2,21-T60; Temperature class T5  
-20°C ≤ Ta ≤ +50°C - for BERGER-N- LED-2,21-T50; Temperature class T6  
-20°C ≤ Ta ≤ +40°C - for BERGER-N- LED-2,21-T40; Temperature class T6  
-40°C ≤ Ta ≤ +50°C - for BERGER-N- LED-2,21-FROST; Temperature class T6
2. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging" - see manufacturer's Technical conditions of the lighting fixture installation.
3. The power supply cable shall be effectively fixed to prevent pulling or twisting.
4. The Technical conditions of the lighting fixture installation established by the manufacturer must be complied.