



EU - Type Examination Certificate

- (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:

FTZÚ 22 ATEX 0107X

- (4) Product: **Luminaire type BERGER-N-LED-2,21**
- (5) Manufacturer: **VYRTYCH a.s.**
- (6) Address: **Židněves 116, 294 06 Březno, Czech Republic**
- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, 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 to the Directive.

The examination and test results are recorded in confidential Report number:

22/0107 dated 25.01.2023

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018, EN 60079-15:2010, EN 60079-28:2015, EN 60079-31:2014
- (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 certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



II 3G Ex nR IIC T6...T5 Gc see clause (17)
II 2D Ex tb op is IIIC T85°C Db

This certificate is valid till: **31.01.2028**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 26.01.2023

Page: 1/3

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13) **Schedule**

(14) **EU - Type Examination Certificate No. FTZÚ 22 ATEX 0107X**

(15) Description of Product:

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 V, 0/50/60 Hz

Degree of protection: IP66

Marking of luminaires:

BERGER-N-LED-G,D-Ta-x-y-zK-DIM DALI

- G** - marking of zone with danger of explosion of inflammable gas and vapours
- D** - 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)

The luminaire and its variants are verified according to the newest standard EN IEC 60079-0:2019.

(16) Report Number: 22/0107

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Page: 2/3

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Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic
tel.: +420 595 223 111, +420 604 203 525, e-mail: ftzu@ftzu.cz, www.ftzu.cz



Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 22 ATEX 0107X**

(17) Specific Conditions of Use:

1. Ambient temperature: $-20^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ - for BERGER-N- LED-T70; Temperature class T5
 $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ - for BERGER-N- LED-T60; Temperature class T5
 $-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ - for BERGER-N- LED-T50; Temperature class T6
 $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ - for BERGER-N- LED-T40; Temperature class T6
 $-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$ - for BERGER-N- LED-FROST; Temperature class T6
2. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging" - see 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.


(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate and EN IEC 60079-15:2019.

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
--	00	9	02.01.2023	Technical description
--	1	2	02.01.2023	Technical conditions of the lighting fixture installation
--	-	1	14.10.2022	Assembly drawing
--	-	1	13.10.2022	Drawing – driver part
--	-	1	06.10.2022	Drawing – light part

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Page: 3/3