



Physical-Technical Testing Institute
Ostrava - Radvanice



EU - Type Examination Certificate

Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)

(3) EU - Type Examination Certificate number:

FTZÚ 25 ATEX 0070X

(4) Product: **LED luminaire type LORD-EX1/21**

(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:

25/0070 dated 18.12.2025

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018, EN 60079-7:2015+A1:2018, EN 60079-18:2015+A1:2017,
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 2G Ex eb mb IIC T4 Gb
II 2D Ex tb IIIC T 85°C Db**

This certificate is valid till: **31.12.2030**

Dipl. Ing. Lukáš Martinák
Representative of Notified Body No. 1026



Date of issue: 19.12.2025

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**Physical-Technical Testing Institute
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(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 25 ATEX 0070X**

(15) Description of Product:

The luminaire consists of four main parts: the aluminum body, the reflector, the optical cover, and the end caps. The main body is made by extruding aluminum and includes an anodized surface finish. The optical cover of the luminaire is made of clear tempered safety glass with screen printing around the edges. The optical cover is bonded to the luminaire body using adhesive. The luminaire's end caps are made of aluminum and are fastened to the profile with M5x10 screws, under which an aramid gasket is placed. Between the end cap and the luminaire body, a punched silicone gasket is installed.

A painted steel component carrier is inserted into the luminaire body, on which individual electrical and other components of the luminaire are mounted.

Electronic ballasts BAREL HFX LED BG2 / HFXE LED BG2, ExVeritas 22 ATEX 1237U/5– Ex eb mb IIC Gb, and the LED module BAREL BG5 (300 mm, 600 mm, 1200 mm, 1500 mm), ExVeritas 19 ATEX 0478U/5 – Ex mb IIC Gb are used. Additionally, a Barel VSI LED diode, ExVeritas 22 ATEX 1237U/5– Ex mb IIC Gb, is mounted on the component carrier, which is used to indicate the status of the emergency unit. For luminaires with an emergency unit, battery pack type VBR-Ex, FTZÚ 24 ATEX 0058U, Ex eb IIC Gb, is used.

The component carrier also holds a WAGO 862-15xx terminal block PTB 03 ATEX 1189U - Ex eb IIC Gb, for connecting the supply cable with conductors up to 4 mm² cross-section.

Cable entries are ensured by plastic or metal Ex cable glands, which must meet the "eb" and "tb" requirements, minimum ingress protection rating IP66. Any remaining holes in the luminaire can be sealed with a sealing plug in Ex protection as the Ex cable gland.

The luminaire contains LEDs on the LED module that are considered as non-array divergent LEDs and these LEDs are to be excluded based on Clause 1 of EN 60079-28:2015.

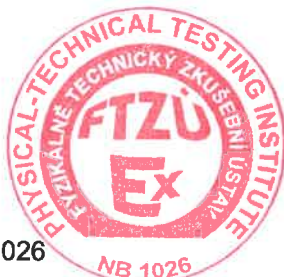
Electrical parameters:

Un: 110-127 V 50/60Hz; 110-127 V DC or
110-254 V 50/60Hz; 220-250 V DC or
220-254V, 50/60Hz, 220-250 V DC

This product is verified according to the newest standard EN IEC 60079-31:2024 too.

(16) Report Number: 25/0070


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(13) **Schedule**

(14) **EU - Type Examination Certificate No. FTZÚ 25 ATEX 0070X**

(17) Specific Conditions of Use:

1. Ambient temperature range: - see Annex
2. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging" - see Technical conditions.
3. Shall be used only Ex equipment cable glands and Ex equipment blanking elements with Ex protection Ex eb and Ex tb with IP 66.
4. The Technical conditions for mounting must be complied.
5. The battery pack must not be replaced in hazardous areas (unless the area is shown to be free from a hazardous atmosphere).
6. The luminaire shall be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.

(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 standard EN IEC 60079-31:2024.

(19) Drawings and Documents:

Number	Revision	Sheets	Date	Description
--	02	6	11.12.2025	Technical description
--	0	6	15.09.2025	Technical conditions for mounting luminaire
Assembly Drawing LORD-Ex1/21	--	1	11.12.2025	Assembly Drawing

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Physical-Technical Testing Institute
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ANNEX

to EU - Type Examination Certificate No. FTZÚ 25 ATEX 0070X

Type coding:

LORD-EX1/21-I-Lββ-γγγ-δδδ00-εεεε-ζζ-μμ

- **LORD** – name of the luminaire
- **EX1/21** – luminaire certified for zone 1/21
- **I** – internal marking
- **Lββ** – length of the luminaire
- **γγγ** – CRI/CCT
- **δδδ00** – designation of the luminous flux of the LED source
- **εεεε** – type of the connection
- **ζζ** – internal designation
- **μμ** – luminaire cover marking

Lββ – Length of the luminaire	γγγ – CRI/CCT	εεεε – Type of the connection	ζζ – Internal designation	μμ – Cover
L03 – 368 mm	830 – CRI80/3000K	0ND – ON/OFF driver	00–99	GC – Clear safety glass
L06 – 648 mm	840 – CRI80/4000K	0D2 – DALI2 driver		GF – Clear safety glass + OPAL PET
L12 – 1208 mm	850 – CRI80/5000K	NM3A – Emergency unit 3H Autotest + ON/OFF driver		GM – Clear safety glass + microprism
L14 – 1490 mm	857 – CRI80/5700K	NA3D2 – Emergency unit 3H Autotest + DALI2 driver		
	865 – CRI80/6500K	ND3D2 – Emergency unit 3H DALI + DALI2 driver		
	930 – CRI90/3000K			
	940 – CRI90/4000K			
	950 – CRI90/5000K			
	957 – CRI90/5700K			
	965 – CRI90/6500K			



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ANNEX

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Ambient temperature range:

Standard variants:

LORD-EX1/21-I-L03-γγγ-1900-0ND/0D2-ζζ-μμ	from -40 °C to + 60 °C
LORD-EX1/21-I-L06-γγγ-2200-0ND/0D2-ζζ-μμ	from -40 °C to + 60 °C
LORD-EX1/21-I-L06-γγγ-2750-0ND/0D2-ζζ-μμ	from -40 °C to + 60 °C
LORD-EX1/21-I-L06-γγγ-4000-0ND/0D2-ζζ-μμ	from -40 °C to + 60 °C
LORD-EX1/21-I-L12-γγγ-4000-0ND/0D2-ζζ-μμ	from -40 °C to + 60 °C
LORD-EX1/21-I-L12-γγγ-5500-0ND/0D2-ζζ-μμ	from -40 °C to + 60 °C
LORD-EX1/21-I-L12-γγγ-8000-0ND/0D2-ζζ-μμ	from -40 °C to + 60 °C
LORD-EX1/21-I-L12-γγγ-11500-0ND/0D2-ζζ-μμ	from -40 °C to + 50 °C
LORD-EX1/21-I-L14-γγγ-5400-0ND/0D2-ζζ-μμ	from -40 °C to + 60 °C
LORD-EX1/21-I-L14-γγγ-6800-0ND/0D2-ζζ-μμ	from -40 °C to + 60 °C
LORD-EX1/21-I-L14-γγγ-9800-0ND/0D2-ζζ-μμ	from -40 °C to + 60 °C
LORD-EX1/21-I-L14-γγγ-14000-0ND/0D2-ζζ-μμ	from -40 °C to + 45 °C

When using a ballast at 110 V, 50/60 Hz and 110 V DC, the ambient temperature decreases by 5 °C.

Emergency variants:

LORD-EX1/21-I-L06-γγγ-2200-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 45 °C
LORD-EX1/21-I-L06-γγγ-2750-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 45 °C
LORD-EX1/21-I-L06-γγγ-4000-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 40 °C
LORD-EX1/21-I-L12-γγγ-4000-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 45 °C
LORD-EX1/21-I-L12-γγγ-5500-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 45 °C
LORD-EX1/21-I-L12-γγγ-8000-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 45 °C
LORD-EX1/21-I-L12-γγγ-11500-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 35 °C
LORD-EX1/21-I-L14-γγγ-5400-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 50 °C
LORD-EX1/21-I-L14-γγγ-6800-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 45 °C
LORD-EX1/21-I-L14-γγγ-9800-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 40 °C
LORD-EX1/21-I-L14-γγγ-14000-NM3A/ND3D2/NA3D2-ζζ-μμ	from 0 °C to + 35 °C



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