



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

Certificate No.: **IECEX FTZU 25.0020X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2025-10-30
Applicant: **VYRTYCH a.s.**
Židněves 116
Březno 294 06
Czech Republic
Equipment: **LED Luminaire, type EXTRA-EX2/21**
Optional accessory:
Type of Protection: **Dust protection "t", Restricted-breathing enclosure "nR"**
Marking: **Ex nR IIC T6 Gc**
Ex tb 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)

Lukáš Martinák
2025-10-30

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 or use of this QR Code.



Certificate issued by:

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





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Date of issue: 2025-10-30

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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 60079-31:2022 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/ExTR25.0020/00](#)

Quality Assessment Report:

[CZ/FTZU/QAR22.0001/03](#)





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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The luminaire consists of three main parts: the housing with a gasket, the opal optical cover and the reflector. The housing and cover are made of polycarbonate. On the end sides of the housing are holes for Ex- cable glands and Ex blanking elements. The luminaire's ingress protection is ensured by stainless steel clips that compress a foamed silicone gasket.

Plastic brackets are inserted into the housing to hold the reflector in place. The reflector is made of painted sheet metal. Drivers are screwed onto the reflector, as well as optional emergency components, an LED indicator for emergency unit status, and a VBA-EX2 LiFePO₄ battery.

Furthermore, a three-pole (or multi-pole) terminal block is mounted on the reflector for connecting the supply cable with conductors up to 2.5 mm². LED modules are mounted on the reflector.

Power cable entries shall be provided by plastic or metal cable glands (M20x1.5; M25x1.5), which meet the required protection type, with a minimum ingress protection rating of IP66. Other holes in the housing shall be sealed using cable glands with blanking elements, which must meet the same parameters as the cable glands.

Emergency mode testing for luminaires with emergency units is performed using by a magnet and a magnetic switch.

The luminaire is equipped with a test port for verifying the properties of the restricted breathing enclosure (nR) after installation, during commissioning, and during maintenance.

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 the standard IEC 60079-28:2015.

Electrical parameters:

$U_n = 220 \div 240 \text{ V}$, 0/50/60 Hz, $220 \div 240 \text{ V DC}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Ambient temperature range: - see Annex to the certificate IECEX FTZU 25.0020X, Issue No: 0.
2. The luminaire is intended for fixed installation and must be labelled "Warning - potential danger of electrostatic charging"
- see Technical conditions.
3. The power supply cable shall be effectively fixed to prevent pulling or twisting.
4. Shall be used only Ex equipment cable glands and Ex equipment blanking elements with Ex protection Ex tb with IP 66 and with service temperature range from -30 °C to +60 °C.
5. The Technical conditions for mounting luminaire must be complied.
6. The battery pack must not be replaced in hazardous areas (unless the area is shown to be free from a hazardous atmosphere).
7. The luminaire shall be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.

Annex:

[Annex_to_IECEX_FTZU_25_0020X_00.pdf](#)





Annex to Certificate of Conformity
IECEX FTZU 25.0020X, Issue No: 0



Applicant: **VYRTYCH a.s.**
Address: **Židněves 116, 294 06 Březno, Czech Republic**
Electrical Apparatus: **LED Luminaire type EXTRA-EX2/21**

Type coding:

EXTRA-EX2/21-G-Lββ-γγγ-δδδ00-εεεε-ζζ-PD

- EXTRA – name of the luminaire
- EX2/21 – luminaire certified for zone 2/21
- G – type of the luminaire enclosure
- 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
- PD – polycarbonate opal cover

Lββ – Length of the luminaire	γγγ – CRI/CCT	εεεε – Type of the connection		ζζ – Internal designation
L06 – 670mm	827 – CRI80/ 2700K	0 – Without battery	ND – ON/OFF driver	00–99
L12 – 1280mm	830 – CRI80/ 3000K		D2 – DALI2 driver	
L15 – 1580mm	835 – CRI80/ 3500K		CB – Central battery system	
	840 – CRI80/ 4000K	L – LiFePO ₄ battery	M1 – Emergency unit 1H + ON/OFF driver	
	850 – CRI80/ 5000K		M3 – Emergency unit 3H + ON/OFF driver	
	857 – CRI80/ 5700K		M1A – Emergency unit 1H Autotest + ON/OFF driver	
	860 – CRI80/ 6000K		M3A – Emergency unit 3H Autotest + ON/OFF driver	
	870 – CRI80/ 6500K		MD1D – Emergency unit 1H DALI + DALI1 driver	
	927 – CRI90/ 2700K		MD3D – Emergency unit 3H DALI + DALI1 driver	
	930 – CRI90/ 3000K		D1D2 – Emergency unit 1H DALI + DALI2 driver	
	935 – CRI90/ 3500K		D3D2 – Emergency unit 3H DALI + DALI2 driver	
	940 – CRI90/ 4000K			
	950 – CRI90/ 5000K			
	957 – CRI90/ 5700K			
	960 – CRI90/ 6000K			
	970 – CRI90/ 6500K			





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Address: **Židněves 116, 294 06 Březno, Czech Republic**
Electrical Apparatus: **LED Luminaire type EXTRA-EX2/21**

Ambient temperature range:

Standard versions:

EXTRA-EX2/21-G-L06-YYY-1700/2500-EEEE-ZZ-PD	-30°C – +50°C
EXTRA-EX2/21-G-L06-YYY-5000-EEEE-ZZ-PD	-30°C – +50°C
EXTRA-EX2/21-G-L12-YYY-3300-EEEE-ZZ-PD	-30°C – +60°C
EXTRA-EX2/21-G-L12-YYY-4000/5000-EEEE-ZZ-PD	-30°C – +55°C
EXTRA-EX2/21-G-L12-YYY-7000-EEEE-ZZ-PD	-30°C – +55°C
EXTRA-EX2/21-G-L12-YYY-10000-EEEE-ZZ-PD	-30°C – +45°C
EXTRA-EX2/21-G-L15-YYY-3750-EEEE-ZZ-PD	-30°C – +60°C
EXTRA-EX2/21-G-L15-YYY-4900-EEEE-ZZ-PD	-30°C – +55°C
EXTRA-EX2/21-G-L15-YYY-7500-EEEE-ZZ-PD	-30°C – +50°C
EXTRA-EX2/21-G-L15-YYY-12550-EEEE-ZZ-PD	-30°C – +45°C
EXTRA-EX2/21-G-L15-YYY-8300/16700/20000-EEEE-ZZ-PD	-30°C – +35°C

Maintained emergency versions:

EXTRA-EX2/21-G-L06-YYY-1700/2500-LEEE-ZZ-PD	0°C – +45°C
EXTRA-EX2/21-G-L06-YYY-5000-LEEE-ZZ-PD	0°C – +45°C
EXTRA-EX2/21-G-L12-YYY-3300/4000/5000-LEEE-08-PD	0°C – +50°C
EXTRA-EX2/21-G-L12-YYY-7000-LEEE-08-PD	0°C – +45°C
EXTRA-EX2/21-G-L12-YYY-10000-LEEE-08-PD	0°C – +40°C
EXTRA-EX2/21-G-L15-YYY-3750-LEEE-08-PD	0°C – +55°C
EXTRA-EX2/21-G-L15-YYY-4900-LEEE-08-PD	0°C – +50°C
EXTRA-EX2/21-G-L15-YYY-7500-LEEE-08-PD	0°C – +50°C
EXTRA-EX2/21-G-L15-YYY-8300-LEEE-08-PD	0°C – +45°C
EXTRA-EX2/21-G-L15-YYY-12550-LEEE-08-PD	0°C – +40°C

