




EU - Type Examination Certificate

- (1)
(2) **Equipment or Protective Systems Intended for Use
in Potentially Explosive Atmospheres
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

FTZÚ 25 ATEX 0056X

- (4) Product: **LED Luminaire type EXTRA-EX2/21**
- (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:
25/0056 dated 29.10.2025
- (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 60079-31:2014
- (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 Gc**
II 2D Ex tb IIIC T85°C Db

This certificate is valid till: **31.10.2030**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 30.10.2025

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Annex: 1 (2 pages)



**Physical-Technical Testing Institute
Ostrava - Radvanice**

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 25 ATEX 0056X**

(15) Description of Product:

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 EN 60079-28:2015.

Electrical parameters:

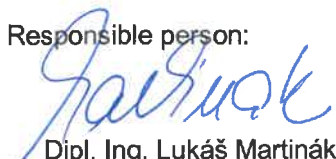
Un = 220 – 240 V, 0/50/60 Hz, 220-240 V DC

Additional parameters – see Annex.

The luminaire is verified according to the standards EN IEC 60079-15:2019 and EN IEC 60079-31:2024 too.

(16) Report Number: 25/0056

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



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(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. 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 a minimum service temperature range -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.

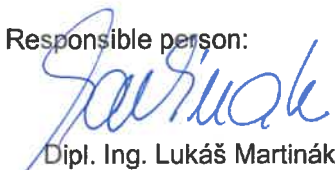
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) and of this certificate and standards EN IEC 60079-15:2019 and EN IEC 60079-31:2024.

(19) Drawings and Documents:

Number	Rev.	Sheets	Date	Description
--	01	10	20.06.2025	Technical description
--	0	9	12.09.2025	Technical conditions for mounting luminaire
Assembly Drawing EXTRA-Ex2/21	--	2	20.10.2025	Assembly Drawing

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**Physical-Technical Testing Institute
Ostrava - Radvanice**

ANNEX

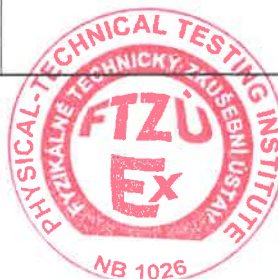
to EU - Type Examination Certificate No. FTZÚ 25 ATEX 0056X

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 –	ND – ON/OFF driver	00–99
L12 – 1280mm	830 – CRI80/ 3000K	Without battery	D2 – DALI2 driver	
L15 – 1580mm	835 – CRI80/ 3500K		CB – Central battery system	
	840 – CRI80/ 4000K		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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to EU - Type Examination Certificate No. FTZÚ 25 ATEX 0056X

Ambient temperature range:

Standard versions:

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

Maintained emergency versions:

EXTRA-EX2/21-G-L06-YYY-1700/2500-LEEE-ζζ-PD	0°C – +45°C
EXTRA-EX2/21-G-L06-YYY-5000-LEEE-ζζ-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

