



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 0055X

(4) Product: **LED Luminaire type EXTRA-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:

25/0055 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 60079-7:2015+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 T85°C Db**

This certificate is valid till: **31.10.2030**

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



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

(13) **Schedule**

(14) **EU - Type Examination Certificate No. FTZÚ 25 ATEX 0055X**

(15) Description of Product:

The luminaire consists of three main parts: the housing with a gasket, the optical opal cover, the reflector. Additionally, the luminaire is equipped with mounting elements. The housing and cover are made of polycarbonate. The cover is attached to the housing by metal clips. In the groove of the housing, there is a seal made of a silicone foam seal. The painted steel carrier for the components is inserted into the housing and secured with screws. On this carrier, the individual electrical components and other parts of the luminaire are attached. 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 (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:

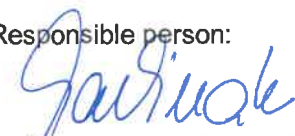
Luminaire equipped by driver BAREL HFX BG2:
220-240 V, 50/60 Hz, 220-240 V DC

Luminaire equipped by driver HFXE BG2 LED:
220-240 V, 50/60 Hz, 220-240 V DC

Additional parameters – see Annex.

The luminaire is verified according to the standard EN IEC 60079-31:2024 too.

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

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 25 ATEX 0055X**

(16) Report Number: 25/0055

(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 eb and Ex tb with IP 66 and with a minimum service temperature range -30°C to +60°C.
5. The Technical conditions for mounting 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) of this certificate.

(19) Drawings and Documents:

Number	Rev.	Sheets	Date	Description
--	00	10	20.06.2025	Technical description
--	0	8	08.09.2025	Technical conditions for mounting luminaire
Assembly Drawing EXTRA-EX1/21	--	2	20.10.2025	Assembly Drawing

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ANNEX

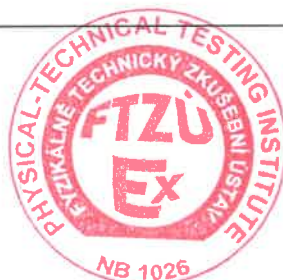
to EU - Type Examination Certificate No. FTZÚ 25 ATEX 0055X

Type coding:

EXTRA-EX1/21-J-Lββ-γγγ-δδδ00-εεεε-PD

- **EXTRA** – name of the luminaire
- **EX1/21** – luminaire certified for zone 1/21
- **J** – 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 – 670 mm	830 – CRI80 / 3000 K	0ND – ON/OFF driver	00–99
L12 – 1280 mm	840 – CRI80 / 4000 K	0D2 – DALI2 driver	
L15 – 1580 mm	850 – CRI80 / 5000 K	NM1A – Emergency unit 1H Autotest + ON/OFF driver	
	857 – CRI80 / 5700 K	NM3A – Emergency unit 3H Autotest + ON/OFF driver	
	865 – CRI80 / 6500 K	NA1D2 – Emergency unit 1H Autotest + DALI2 driver	
	930 – CRI90 / 3000 K	NA3D2 – Emergency unit 3H Autotest + DALI2 driver	
	940 – CRI90 / 4000 K	ND1D2 – Emergency unit 1H DALI + DALI2 driver	
	950 – CRI90 / 5000 K	ND3D2 – Emergency unit 3H DALI + DALI2 driver	
	957 – CRI90 / 5700 K		
	965 – CRI90 / 6500 K		





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Ambient temperature range:

Standard versions:

EXTRA-EX1/21-J-L06-yyy-2200-0ND-PD	-30°C – +55°C
EXTRA-EX1/21-J-L06-yyy-2750-0ND/0D2-PD	-30°C – +55°C
EXTRA-EX1/21-J-L06-yyy-4000-0ND/0D2-PD	-30°C – +50°C
EXTRA-EX1/21-J-L12-yyy-4500-0ND-PD	-30°C – +55°C
EXTRA-EX1/21-J-L12-yyy-5500-0ND/0D2-PD	-30°C – +55°C
EXTRA-EX1/21-J-L12-yyy-8000-0ND/0D2-PD	-30°C – +50°C
EXTRA-EX1/21-J-L12-yyy-11600-0ND/0D2-PD	-30°C – +40°C
EXTRA-EX1/21-J-L15-yyy-5400-0ND-PD	-30°C – +50°C
EXTRA-EX1/21-J-L15-yyy-6800-0ND/0D2-PD	-30°C – +50°C
EXTRA-EX1/21-J-L15-yyy-9800-0ND/0D2-PD	-30°C – +45°C
EXTRA-EX1/21-J-L15-yyy-14100-0ND/0D2-PD	-30°C – +30°C

Maintained emergency versions:

EXTRA-EX1/21-J-L06-yyy-2200-NM1A-08-PD	0°C – +30°C
EXTRA-EX1/21-J-L06-yyy-2750-NM1A/ NA1D2/ ND1D2 -08-PD	0°C – +30°C
EXTRA-EX1/21-J-L06-yyy-4000-NM1A/ NA1D2/ ND1D2 -08-PD	0°C – +25°C
EXTRA-EX1/21-J-L12-yyy-4500-NM3A -08-PD	0°C – +45°C
EXTRA-EX1/21-J-L12-yyy-5500-NM3A/ NA3D2/ ND3D2 -08-PD	0°C – +45°C
EXTRA-EX1/21-J-L12-yyy-8000-NM3A/ NA3D2/ ND3D2 -08-PD	0°C – +40°C
EXTRA-EX1/21-J-L15-yyy-5400-NM3A -08-PD	0°C – +45°C
EXTRA-EX1/21-J-L15-yyy-6800-NM3A/ NA3D2/ ND3D2 -08-PD	0°C – +45°C
EXTRA-EX1/21-J-L15-yyy-9800-NM3A/ NA3D2/ ND3D2 -08-PD	0°C – +40°C

