Physical-Technical Testing Institute
Ostrava - Radvanice

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 26 ATEX 0001X

(4) Product: **LED Luminaire type Escape Ex1**

(5) Manufacturer: **BARTEC F.N. S.r.l.**

(6) Address: **via M. Pagano, 3; I-20090 Trezzano sul Naviglio (MI), Italy**

(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:

26/0001 dated 12.02.2026

(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: **28.02.2031**

Date of issue: 13.02.2026

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

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Annex: 1 (2 pages)

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tel.: +420 595 223 111, +420 604 203 525, e-mail: ftzu@ftzu.cz, www.ftzu.cz

(13) **Schedule**

(14) EU - Type Examination Certificate No. FTZÚ 26 ATEX 0001X

(15) Description of Product:

The luminaire consists of four main parts: the housing, the optical opal cover, the reflector, and the mounting sheet for electrical components. The housing and cover are made of polycarbonate. The cover is attached to the housing using M5x25 screws, beneath which there are silicone o-rings. Additionally, the cover is secured by four protrusions that fit into the locking mechanism in the housing. In the groove of the housing, there is a seal made of EPDM material or a silicone foam seal. The painted steel carrier for the components is inserted into the housing and secured with four 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 (300 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-NiCd 2x Linear 7.2 V / 5 Ah, 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 the standard 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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(13) **Schedule**

(14) EU - Type Examination Certificate No. FTZÚ 26 ATEX 0001X

(16) Report Number: 26/0001

(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 Operation Instructions.
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 Operation Instructions for mounting and maintenance 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 and standard EN IEC 60079-31:2024.

(19) Drawings and Documents:

Number	Revision	Sheets	Date	Description
48307	B	12	01/2026	Operational Instructions - Escape Ex1
ESCZ1 MKG	--	1	11.11.2025	Label

Dipl. Ing. Lukáš Martinák
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PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV NB 1026

Date of issue: 13.02.2026

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Physical-Technical Testing Institute
Ostrava - Radvanice

ANNEX

to EU - Type Examination Certificate No. FTZÚ 26 ATEX 0001X

Type code marking

ESCZ * ** ** * * * * ** FE**

- Installation Zone
  - 1: Zone 1/21
- Ambient temperature (As per table)
  - 35; 0°C to +35°C
  - 44; 0°C to +45°C
  - 50; -30°C to +50°C
- Type of driver
  - N0: ON/OFF
  - ND: DALI2
  - EA: Emergency unit 3H Autotest + ON/OFF driver
  - AD: Emergency unit 3H Autotest + DALI2 driver
  - ED: Emergency unit 3H DALI + DALI2 driver
  - A0: Emergency unit 3H Autotest
  - D0: Emergency unit 3H DALI
- Power*10
  - 035: 3,5W; 400lm
  - 150: 15W; 1900lm
- Cable gland
  - P: plastic M20
  - M: metal M20
- Enclosure Gasket
  - S: Silicone
  - E: EPDM
- Colour Temperature
  - 3; 3000K, CRI80
  - 4; 4000K, CRI80
  - 5; 5000K, CRI80
  - 7; 5700K, CRI80
  - 6; 6500K, CRI80
  - A; 3000K, CRI90
  - B; 4000K, CRI90
  - C; 5000K, CRI90
  - D; 5700K, CRI90
  - E; 6500K, CRI90
- Mounting kit type
- FE - internal marking

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex

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ANNEX

to EU - Type Examination Certificate No. FTZÚ 26 ATEX 0001X

Table of temperature ranges

Admissible Temperature Ranges		
Type of driver	Power	Ambient Temperature Range
N0; ON/OFF	150: 15W; 1900lm	-30 ÷ +50°C
ND; DALI2	150: 15W; 1900lm	-30 ÷ +50°C
EA; Emergency unit 3H Autotest + ON/OFF driver	150: 15W; 1900lm	0 ÷ +35°C
AD; Emergency unit 3H Autotest + DALI2 driver	150: 15W; 1900lm	0 ÷ +35°C
ED; Emergency unit 3H DALI + DALI2 driver	150: 15W; 1900lm	0 ÷ +35°C
A0; Emergency unit 3H Autotest	035: 3,5W; 400lm	0 ÷ +45°C
D0; Emergency unit 3H DALI	035: 3,5W; 400lm	0 ÷ +45°C

PHYSICAL-TECHNICAL TESTING INSTITUTE FYZIKÁLNĚ-TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex NB 1026

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