Physical-Technical Testing Institute
Ostrava - Radvanice

(1)

EU - Type Examination Certificate

(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 0008X

(4) Product: **LED Luminaire type Escape Ex2**

(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:

26/0008 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 60079-15:2010, 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: **28.02.2031**

Date of issue: 13.02.2026

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

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Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 00 Ostrava - Radvanice, Czech Republic
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 0008X

(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. For emergency luminaires, emergency units are used, along with an LED indicator for the emergency unit status and either a NiCd VBA-N battery.

The component carrier also includes a three-pole (or multi-pole) terminal block for connecting the power cable with conductor cross-sections up to 2.5 mm². 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 plugs or plugs, 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
for emergency unit Un = 220 – 240 V, 50/60 Hz
Additional parameters – see Annex.

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

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PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ NB 1026

Date of issue: 13.02.2026

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(13) **Schedule**

(14) EU - Type Examination Certificate No. FTZÚ 26 ATEX 0008X

(16) Report Number: 26/0008

(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 Operational 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 Operational Instructions 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 standards EN IEC 60079-15:2019 and EN IEC 60079-31:2024.

(19) Drawings and Documents:

Number	Revision	Sheets	Date	Description
03-0330-1373	B	12	01/2026	Operational Instructions - Escape Ex2
ESCZ2 MKG	0	1	20.01.2026	Label

PHYSICAL-TECHNICAL TESTING INSTITUTE FTZÚ Ex NB 1026

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Physical-Technical Testing Institute
Ostrava - Radvanice

ANNEX

to EU - Type Examination Certificate No. FTZÚ 26 ATEX 0008X

Type code marking

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

Installation Zone
- 2: Zone 2/21

Ambient temperature (As per table)
- 30; 0°C to +30°C
- 40; 0°C to +40°C
- 44; 0°C to +45°C
- 50; -30°C to +50°C
- 55; -30°C to +55°C
- 60; -30°C to +60°C

Type of driver
- N0: ON/OFF
- ND: DALI2
- EN: Emergency unit 3H + ON/OFF driver
- EA: Emergency unit 3H Autotest + ON/OFF driver
- AD: Emergency unit 3H Autotest + DALI2 driver
- ED: Emergency unit 3H DALI + DALI2 driver
- E0: Emergency unit 3H
- A0: Emergency unit 3H Autotest
- D0: Emergency unit 3H DALI
- CB: Central battery system

Power*10
- 025: 2,5W; 400lm
- 070: 7W; 1200lm
- 100: 10W; 1800lm
- 130: 13W; 2400lm
- 160: 16W; 2900lm
- 200: 20W; 3400lm
- 230: 23W; 4000lm

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 FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV FTZÚ Ex NB 1026

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ANNEX

to EU - Type Examination Certificate No. FTZÚ 26 ATEX 0008X

Table of temperature ranges

Admissible Temperature Ranges		
Type of driver	Power	Ambient Temperature Range
N0; ON/OFF ND; DALI2	070: 7W; 1200lm	-30 ÷ +60°C
N0; ON/OFF ND; DALI2	100: 10W; 1800lm 130: 13W; 2400lm	-30 ÷ +55°C
N0; ON/OFF ND; DALI2	160: 16W; 2900lm 200: 20W; 3400lm	-30 ÷ +50°C
N0; ON/OFF ND; DALI2	230: 23W; 4000lm	-30 ÷ +45°C
EN; Emergency unit 3H + ON/OFF driver EA; Emergency unit 3H Autotest + ON/OFF driver ED; Emergency unit 3H DALI + DALI2 driver	070: 7W; 1200lm 100: 10W; 1800lm 130: 13W; 2400lm	0 ÷ +40°C
EN; Emergency unit 3H + ON/OFF driver EA; Emergency unit 3H Autotest + ON/OFF driver ED; Emergency unit 3H DALI + DALI2 driver	160: 16W; 2900lm 200: 20W; 3400lm 230: 23W; 4000lm	0 ÷ +30°C
E0; Emergency unit 3H	025: 2.5W; 400lm	0 ÷ +45°C
A0; Emergency unit 3H Autotest	025: 2.5W; 400lm	0 ÷ +45°C
D0; Emergency unit 3H DALI	025: 2.5W; 400lm	0 ÷ +45°C

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