

(1) **EU-Type-Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



(3) **Certificate Number** TÜV CY 21 ATEX 0206562 X

Issue 01

(4) for the equipment: LED Lighting Apparatus
Type: TrEx * . *** ***/*** * * * *

(5) of the manufacturer: TREVOS, A.S.

(6) Address: Nová Ves 34 – 51101 Turnov
CZECH REPUBLIC

Order number: 0206562

Date of issue: 2024-05-22

(7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.

(8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 24 0206562.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-1:2014

EN IEC 60079-7:2015/A1:2018

EN 60079-18:2015/A1:2017

EN 60079-28:2015

EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:



II 2G Ex db eb mb op is IIC T4 Gb with disconnecter

II 2D Ex tb IIIC T68°C Db

II 2G Ex eb mb op is IIC T4 Gb without disconnecter

II 2D Ex tb IIIC T68°C Db

TÜV CYPRUS Ltd (TUV NORD Group),

Accredited by CYS-CYSAB
Certificate No. C 004-2

The head of the notified body,

D. Demosthenous



TÜV CYPRUS (TÜV NORD) Ltd,
2 Papaflessa Str., 2235 Latsia, Nicosia - P.O.Box: 20732, 1663 Nicosia, Cyprus
Tel:+357 22 44 28 40 Fax:+35722 44 28 50 email: info@tuvcyprus.com.cy
www.tuv-nord.com/cy

This certificate may only be reproduced without any change, schedule included.
Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd

(13) SCHEDULE

(14) EU-Type-Examination Certificate No. TÜV CY 21 ATEX 0206562 X Issue 01

(15) Description of equipment

The LED lighting apparatus TrEx series are composed by several enclosure sizes made by powder coated steel or stainless steel and tempered safety glass for the optical part, containing LEDs lighting sources, accessories and feeding apparatus suitable for normal and/or emergency light function.

Permissible range of ambient temperature:

- with emergency back-up source: 0°C to +40°C

- without emergency back-up source: -40 °C to +50 °C or -40 °C to +55 °C.

The degree of enclosure protection according to EN 60529 is IP66.

Type code and technical data

TrEx a.bft cccc/ddd e f g h

a = number of LED modules rows (1 or 2)

bft = length of 2, 4 or 5 feet (ft)

cccc = lumen flux from 3200 to 22000 lm

ddd = CRI and CCT - 830, 840, 850 and 857

e = "DIS" = light fitting with disconnecter

or

" " = light fitting without disconnecter

f = "INOX" = body made from stainless steel

or

" " = body made from powder coated steel

g = "1F" = light fitting with 1-phase 3 core through-wiring

or

"3F" = light fitting with 3-phase 5 core through-wiring

or

" " = light fitting without through-wiring

h = "M1h" = light fitting with emergency back-up source, 1-hour operating time

or

"M3h" = light fitting with emergency back-up source, 3-hours operating time

or

" " = light fitting without emergency back-up source

The following variants are covered by this certificate:

Type of the luminaire without emergency back-up source					
Type	Ambient temperature	Supply Voltage and Frequency	System input		
TrEx 1.2ft 3200/8xx e f g	→	220-250V 50/60Hz	→	19W	
TrEx 1.2ft 4400/8xx e f g	→		→	27W	
TrEx 1.4ft 6400/8xx e f g	→		→	35W	
TrEx 1.4ft 8800/8xx e f g	→		-40°C ≤ Ta ≤ +55°C	→	50W
TrEx 1.5ft 8000/8xx e f g	→		→	→	40W
TrEx 1.5ft 11000/8xx e f g	→		→	→	59W
TrEx 2.2ft 6400/8xx e f g	→		→	→	35W
TrEx 2.2ft 8800/8xx e f g	→		-40°C ≤ Ta ≤ +50°C	→	50W
TrEx 2.4ft 12800/8xx e f g	→		-40°C ≤ Ta ≤ +55°C	→	67W
TrEx 2.4ft 17600/8xx e f g	→		-40°C ≤ Ta ≤ +50°C	→	100W
TrEx 2.5ft 16000/8xx e f g	→		-40°C ≤ Ta ≤ +55°C	→	80W
TrEx 2.5ft 22000/8xx e f g	→		-40°C ≤ Ta ≤ +50°C	→	121W

Type of the luminaire with emergency back-up source					
Type	Ambient temperature	Supply Voltage and Frequency	System input		
TrEx 1.2ft 3200/8xx e f g h	→	220-250V 50/60Hz	→	19W	
TrEx 1.2ft 4400/8xx e f g h	→		→	27W	
TrEx 1.4ft 6400/8xx e f g h	→		→	35W	
TrEx 1.4ft 8800/8xx e f g h	→		→	50W	
TrEx 1.5ft 8000/8xx e f g h	→		→	40W	
TrEx 1.5ft 11000/8xx e f g h	→		0°C ≤ Ta ≤ +40°C	→	59W
TrEx 2.2ft 6400/8xx e f g h	→		→	→	35W
TrEx 2.2ft 8800/8xx e f g h	→		→	→	50W
TrEx 2.4ft 12800/8xx e f g h	→		→	→	67W
TrEx 2.4ft 17600/8xx e f g h	→		→	→	100W
TrEx 2.5ft 16000/8xx e f g h	→		→	→	80W
TrEx 2.5ft 22000/8xx e f g h	→		→	→	121W

Dimension of luminaire			
Type	Length [mm]	Height [mm]	Width [mm]
TrEx 1.2ft 3200/8xx e f g h	730	115	300
TrEx 1.2ft 4400/8xx e f g h	730	115	300
TrEx 1.4ft 6400/8xx e f g h	1300	115	300
TrEx 1.4ft 8800/8xx e f g h	1300	115	300
TrEx 1.5ft 8000/8xx e f g h	1580	115	300
TrEx 1.5ft 11000/8xx e f g h	1580	115	300
TrEx 2.2ft 6400/8xx e f g h	730	115	300
TrEx 2.2ft 8800/8xx e f g h	730	115	300
TrEx 2.4ft 12800/8xx e f g h	1300	115	300
TrEx 2.4ft 17600/8xx e f g h	1300	115	300
TrEx 2.5ft 16000/8xx e f g h	1580	115	300
TrEx 2.5ft 22000/8xx e f g h	1580	115	300

Warnings

- DO NOT OPEN WHEN ENERGIZED
- POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1:

Three drawings (TrEx reflector 2ft, 4ft and 5ft) replaced the hole where we fixed the protective connection wire with a self-tapping screw with a pressed nut.

For the 5ft body (only for this largest one) reduced the size of the glass by 2.5mm.

(16) Test documents are listed in the test report No. 24 0206562.

(17) Special conditions for safe use

- The specific conditions mentioned in the certificates of separately certified components have to be fulfilled.
- The luminaire must not be opened if the terminal block is voltage-carrying. Change the diffuser if it is cracked.
- LED components are included inside the luminaire. The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
- The opening in the unused cable gland must be sealed with an ATEX plug.
- Potential electrostatic charging hazard. In an environment with explosion hazard the luminaire should be cleaned only with a moist cloth and the operative has to be earthed.
- Disconnecting and replacing of the Ex proof battery box in the luminaire is only possible out of the environment with explosion hazard.
- The recommended fuse rating for continuously wired luminaires is type B; 10 A or 16 A.
- The luminaire TrEx is approved for single and triple phase continuous wiring. Maximum allowed number of luminaires connected on one phase is listed in the table below.

Luminaire type	Automatic cut-out 10A	Automatic cut-out 16A
TrEx 1.2ft	25	40
TrEx 1.4ft	25	40
TrEx 1.5ft	25	40
TrEx 2.2ft	25	40
TrEx 2.4ft	12	20
TrEx 2.5ft	12	20

(18) Essential Health and Safety Requirements

This EU type examination certificate covers only the Essential Health and Safety Requirements related to the Directive 2014/34/EU.