



## Type Examination Certificate

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

(3) Type Examination Certificate number:

**FTZÚ 24 ATEX 0022X**

(4) Product: **Industrial lamp type POLARIS I LED**

(5) Manufacturer: **ELEKTROSVIT Svatobořice, a.s.**

(6) Address: **Nádražní 1290/44, 696 04 Svatobořice, 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 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014.

The examination and test results are recorded in confidential Report number:

**24/0022 dated 18.03.2025**

(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 according to Directive 2014/34/EU. This certificate does not cover the manufacturing process.

(12) The marking of the product shall include the following:

 **II 3G Ex nR IIC T6...T5 Gc**  
**II 3D Ex tc IIIC T80°C...T95°C Dc**

This certificate is valid till: **30.04.2030**

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 28.04.2025

Page: 1/3

This certificate is granted subject to the general conditions of the FTZÚ, s.p.  
This certificate may only be reproduced in its entirety and without any change, schedule included.



Physical-Technical Testing Institute  
Ostrava - Radvanice

(13)

Schedule

(14)

Type Examination Certificate No. FTZÚ 24 ATEX 0022X

(15) Description of Product:

The product is industrial Lamp. The enclosure of product is composed of these parts: Main cover, window with frame, sealing, Cable gland. The main cover and window frame consists of aluminium alloy. Window consists of glass. On the all surfaces of metallic parts of enclosure is applied yellow surface coating layer.

There is used separately certified cable gland Hummel HSK-Ex-M certificate number KEMA 99ATEX6971 X. The power supply cable with length 700 mm is a part of product.

Inside product enclosure is LED driver module and LED modules mounted on aluminium plate. There are presented also terminals for interconnection of internal parts.

The product pass requirements of standard EN IEC 60079-15:2019.

Product type key:

**593 01 0x – yy – Mzz – qq**

x – power of product, can be 1,2,3,4

yy – type of cable connection, can be 30, 50

zz – type of cable gland, can be 20, 25

qq – optical chromaticity, can be 3K, 4K, 5K, 5K7, 6K, 6K5

Technical parameters:

Ambient temperature:

type 593 01 04 for temperature class T5 and T95°C: from -40°C to +75°C

type 593 01 04 for temperature class T6 and T80°C: from -40°C to +60°C

types 593 01 01, 593 01 02, 593 01 03 for temperature class T5 and T95°C: from -40°C to +60°C

types 593 01 01, 593 01 02, 593 01 03 for temperature class T6 and T80°C: from -40°C to +45°C

Degree of protection: IP66

Power supply: 198 – 264 V AC or 176 – 280 V DC

Power supply power: 125 W type 593 01 01

100 W type 593 01 02

75 W type 593 01 03

50 W type 593 01 04

(16) Report Number: 24/0022

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 28.04.2025

Page: 2/3

This certificate is granted subject to the general conditions of the FTZÚ, s.p.  
This certificate may only be reproduced in its entirety and without any change, schedule included.

Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic  
tel.: +420 595 223 111, +420 604 203 525, e-mail: ftzu@ftzu.cz, www.ftzu.cz



Physical-Technical Testing Institute  
Ostrava - Radvanice

(13)

Schedule

(14)

Type Examination Certificate No. FTZÚ 24 ATEX 0022X

(17) Specific Conditions of Use:

1. When product is used in area with a present of explosive dust or gas atmosphere (EPL Dc and Gc) so there is necessary to take measures to avoid of electrostatic charging of product enclosure surface. Product cannot be installed in area with high efficiency source of electrostatic charging. Detail information are listed in user manual document.
2. The cable gland is tested with reduced tensile force (25%) and may only be used for fixed installation. The user shall ensure adequate clamping of the cable.
3. The cable glands are tested for low risk of mechanical danger (drop height 0.4 m with 1 kg mass) and shall be protected against higher impact energy levels.
4. The product is not equipped by test port. The sealing have to be replaced after each open of product enclosure. Detail information are listed in user manual.
5. Ambient temperature:  
Type 593 01 04 for temperature class T5 and T95°C: from -40°C to +75°C  
Type 593 01 04 for temperature class T6 and T80°C: from -40°C to +60°C  
Types 593 01 01, 593 01 02, 593 01 03 for temperature class T5 and T95°C: from -40°C to +60°C  
Types 593 01 01, 593 01 02, 593 01 03 for temperature class T6 and T80°C: from -40°C to +45°C

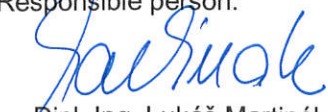
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

(19) Drawings and Documents:

Number	Sheet	Date	Description
495.3755	11	28.04.2025	User- Installation manual
0-593 01 01	1	15.03.2024	Drawing

Responsible person:

  
Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 28.04.2025

Page: 3/3

This certificate is granted subject to the general conditions of the FTZÚ, s.p.  
This certificate may only be reproduced in its entirety and without any change, schedule included.