

# (1) Type Examination Certificate

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

(3) Type Examination Certificate Number:



### TPS 21 ATEX 111567 0003 X Rev. 00

(4) Equipment or Protective System: Explosion-proof LED Luminaire –

Type: Prolit Kompakt Exproof series

(5) Manufacturer: EAE ELEKTRİK AYDINLATMA ENDÜSTRİSİ SANAYİ VE

TİCARET ANONİM ŞİRKETİ

(6) Address: Organize Sanayi Bölgesi (Makine İhtisas OSB) Mah. 1. Cad.

Fabrika Binası (A+B+C Blok) Apt. No:4B 41455 Dilvası/KOCAELİ

TURKEY

(7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

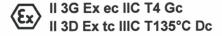
(8) TÜV SÜD Product Service GmbH certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports with no. 64.105.19.30794.01

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

EN IEC 60079-0:2018 EN IEC 60079-7:2015+A1:2018 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 Type Examination 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:



Certification Body

München, 23.12.2021

Ing. Frank Zhu, MSc.

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Doc. Name: Temp-ExNBG-TPS-Type-Cert-Rev. 02

# Schedule



#### Type Examination Certificate no. (14)

# TPS 21 ATEX 111567 0003 X Rev. 00

# **Certificate History**

Revision:	Description:	Report no.:		
Rev. 00	First issue.	64.105.19.30794.01	23.12.2021	

#### (15)**Description of equipment:**

The equipments are Explosion-proof LED Luminaires – Prolit Kompakt Exproof Series. They are protected by Increased Safety "ec" and Dust Ignition Protection by Enclosure "tc" used in Explosive Gas Atmosphere Zone 2 and Explosive Dust Atmosphere Zone 22.

The luminaire consists of LED driver and LED chips panel and terminals, each is installed in individual IP 66 enclosure. Cable glands, breathing and drain devices and terminal blocks are pre-certified. The size and appearance of each models are the same. The main differences of each models are the rated power.

See the user instructions for further details.

#### Model designation:

PRK	096	Z	40	EX	00	16	11K2	MP
<b>↑</b>	1	<b>↑</b>	<b>↑</b>	1	1	<b>↑</b>	<b>↑</b>	1
1	Ш	111	IV	V	VI	VII	VIII	IX

I - Product code

PRK: Prolit Kompakt series

II - Power Consumption

40: 40W

43: 43W

49: 49W

51: 51W

62: 62W

70: 70W

75: 75W

95: 95W

96: 96W

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## TPS 21 ATEX 111567 0003 X Rev. 00

III - Assembly type:

Z: Zemin / Floor

IV - CCT

20: 2000K

27: 2700K

30: 3000K

40: 4000K

50: 5000K

57: 5700K

65: 6500K

V – Explosion proof information

EX: Exproof

VI - Control Gear

00: Standard

VII - Beam angle (FWHM)

16: 16°

27: 27°

35: 35°

52: 52°

60: 60°

90: 90°

98: 98°

ASM: asymmetric

VIII - LUMEN (example)

5K0 to 12K0: 5000LM to 12000 LM

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### TPS 21 ATEX 111567 0003 X Rev. 00

IX - Type of LED

Blank: High power LED

MD: Mid power LED

#### Model difference:

The construction of each model is identical expect rated power, beam angle and nominal luminous flux.

### Technical data:

Model	Prolit Kompakt Exproof series
Rated Voltage	220 to 240V a.c.
Rated Frequency	50/60 Hz
Maximum Rated Output Power	40W, 43W, 49W, 51W, 62W, 70W, 75W, 95W, 96W
Ambient temperature	-20°C to +55°C: 40W, 43W, 49W, 51W, 62W, 70W -20°C to +50°C: 75W -20°C to +45°C: 95W, 96W
Installation	Fixed
Supply connection	Fixed power supply cord
IP rating	IP66 according to EN 60079-0
Electrical protection	Class I

### Warning label:

WARNING - DO NOT OPEN WHEN ENERGIZED

# Installation instruction:

See installation instructions provided by the manufacturer and part of this certification.

See also (17) Special conditions for safe use.

(16) <u>Test report(s):</u> 64.105.19.30794.01

## Routine tests:

100% routine test has to be done by manufacturer.

For terminal blocks:

Dielectric strength test:

- 1. 1500V a.c., 1min or 1800V a.c., 0.1s between L terminal and Earthing terminal of terminal block
- 2. 1500V a.c., 1min or 1800V a.c., 0.1s between N terminal and Earthing terminal ofterminal block

No flashover or dielectric breakdown occurring.

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For LED driver:

Dielectric strength test:

- 1. 1500V a.c., 1min or 1800V a,c., 0.1s between input and output
- 2. 1500V a.c., 1min or 1800V a,c., 0.1s between input and enclosure with conductive foil
- 3. 500V a.c., 1min or 600V a.c., 0.1s between output and enclosure with conductive foil No flashover or dielectric breakdown occurring.

### **Document List:**

File no.:	Description:	Pages:	Rev:	Date:
PRL-EX-SHP- Rev 001	Use manual – Prolit Kompakt Exproof	8	001	2021-07-16
PRK EX METAL ETIKET	Marking plate of Prolit Kompakt Exproof	1	001	2021-12-20
PRK-EX Drawings-Rev 001	PROLIT KOMPAKT EXPROOF TECHNICAL DRAWING	46	001	2021-12-20
-	Declaration of Conformity (draft)	2	-	-

A copy of the full documentation is kept confidentially at TÜV SÜD.

- (17)Special conditions for safe use:
  - Maintenance, Connection and Disconnection of the supply wires or cables should be done only when ensured that no hazardous gas is present by trained operator. The operator should follow the requirements of IEC 60079-14 standard, beside of the instruction manual.
  - 2. CABLE SELECTION ACCORDING TO USER MANUAL
- (18)Essential health and safety requirements:

Assured by compliance with standards set out in (9).

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