



(3) Type Examination Certificate Number:

TPS 21 ATEX 111567 0001 X Rev. 00

- (4) Equipment or Protective System: Explosion-proof LED Luminaire –
Type: Prolit 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. 64.105.19.30791.01
- (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:



II 3G Ex ec IIC T4 Gc
II 3D Ex tc III C T135°C Dc

Certification Body

München, 27.07.2021

Ing. Frank Zhu, MSc.

Frank Thur

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Doc. Name: Temp-ExN5G-TPS-Type-Cert-Ray_02

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Schedule

(14)

Type Examination Certificate no.

TPS 21 ATEX 111567 0001 X Rev. 00



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Certificate History

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue.	64.105.19.30791.01	27.07.2021

(15) Description of equipment:

The equipments are Explosion-proof LED Luminaires – Prolit 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, LED power driver installation method and the coating.

See the user instructions for further details.

Model designation:

PRL	102	Z	40	EX	00	20	13K4	OP1
↑	↑	↑	↑	↑	↑	↑	↑	↑
I	II	III	IV	V	VI	VII	VIII	IX

I – Product code

PRL: Prolit series

II – Power Consumption

206: 206W

176: 176W

105: 105W

132: 132W

102: 102W

III – Assembly type:

Z: Zemin / Floor

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IV – CCT

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)

22: 22°

32: 32°

57: 57°

99: 99°

ASM: asymmetric

VIII – Lumen

13K4: 13400Lm

14K9: 14900Lm

19K3: 19300Lm

19K8: 19800Lm

21K8: 21800Lm

22K6: 22600Lm

24K5: 24500Lm

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25K2: 25200Lm

25K5: 25500Lm

25K8: 25800Lm

IX – Version

OP1: Option1

OP2: Opsiton2

SHP: SHIP

Model difference:

There are three separate versions of Prolit Exproof series product.

The construction of Prolit Exproof Option 1 and Ship model are the same except material of the screw, cable gland, bracket.

Prolit Exproof Option 2 includes additional terminal box and driver box.

Technical data:

Model	Prolit Exproof series- Prolit Exproof Option 1, Prolit Exproof Option 2, Prolit Exproof Ship
Rated Voltage	220 to 240V a.c.
Rated Frequency	50/60 Hz
Maximum Rated Output Power	102W, 132W, 150W, 176W, 206W
Ambient temperature	102W, 132W, 150W: -20°C to +55°C 176W, 206W: -20°C to +42°C
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.

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Test report(s): 64.105.19.30791.01

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 of terminal block

No flashover or dielectric breakdown occurring.

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 Exproof Ship	7	001	2021-07-13
PRL-EX-OP1-Rev 001	Use manual – PROLIT Exproof Option 1	6	001	2021-07-13
PRL-EX-OP2-Rev 001	Use manual – PROLIT Exproof Option 2	8	001	2021-07-13
METAL ET-OP1	Marking plate of Prolit Exproof Option 1	1	-	2021-07-13
METAL ET-OP2	Marking plate of Prolit Exproof Option 2	1	-	2021-07-13
METAL ET-SHP	Marking plate of Prolit Exproof Option Ship	1	-	2021-07-13
2084207	PRL EX Body	1	-	2018-11-05
2081869	PRL EX SHIP Body	1	-	2018-11-05
1016706	PRL Flame	1	-	2017-06-05
2080404	PRL EX SHIP Flame	1	-	2019-11-25
2069249	PRL EX Option 1 LED driver fixing part	1	-	2019-01-24
2084209	PRL EX Option 2 LED driver fixing part	1	-	2019-03-18

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2080408	PRL EX SHIP LED driver fixing part	1	-	2019-01-24
1016711	PRL Glass	1	-	2017-06-05
1016712	PRL Glass Gasket	1	-	2017-06-05
1018969	General LED Lens - LEDIL 54D 4 LU LENS C12361_HB-2x2	1	-	2020-01-08
1021026	Ship version LED Lens - LEDIL 98° 4 LU LENS C14724_HB-2X2-WWW	1	-	2020-01-09
1025602	Earth washer	1	-	2020-01-08
2069256	PRL Reflector	1	-	2018-11-05
2080401	PRL EX SHIP bracket	1	-	2018-09-28
2069254	PRL EX Option 1 bracket	1	-	2018-09-28
2084213	PRL EX Option 2 bracket	1	-	2018-09-28
1027143	PRL EX Option 2 Driver box	1	-	2020-03-19
1027144	PRL EX Option 2 Driver box cover	1	-	2020-03-18
1027115	PRL EX Option 2 Driver box terminal cavity cover	1	-	2020-03-16
1027117	PRL EX Option 2 Driver box terminal cavity cover gasket	1	-	2020-03-13
1027142	PRL EX Option 2 Driver box cover gasket	1	-	2020-03-19
1007008	Earth lug	1	-	2020-11-12
-	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.
- 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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