

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 18 ATEX 8184

Issue: 01

- (4) Equipment: **LED Lamp Type KE-LED-EX 400*/...**
- (5) Manufacturer: **KIRA Leuchten GmbH**
- (6) Address: **Wiedenstraße 6
D-78244 Gottmadingen-Randegg**

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which 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 atmosphere, given in Annex II to the Directive. The examination and test results are recorded in the confidential report 557 / Ex 8184.01 / 18
- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0:2018 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 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 and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 2 G Ex eb mb op is IIC T4 Gb

II 2 D Ex tb op is IIIC T105°C Db

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2021-06-16

Dipl.-Ing. Christian Mehrhoff



This EU-Type Examination Certificate without signature and stamp shall not be valid.
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group, Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. +49 (0) 221 806 114

(13) Annex

(14) **EU Type Examination Certificate**
TÜV 18 ATEX 8184 Issue: 01

(15) Description of equipment

15.1 Equipment and type:

The LED Lamp KE-LED-EX 400*/... is available with different number of LED's as well as with different supply voltage.

Type KE-LED-EX 400* /...

* to be replaced by

3	LED lamp with 3 LED
6	LED lamp with 6 LED

... to be replaced by

230	supply voltage	230 VAC
110		110 VAC/DC
42		42 VAC/DC
24		24 VAC/DC
12		12 VAC/DC

15.2 Description / Details of Change

General product information

The LED Lamp type KE-LED-EX400*/... is supplied with integral cable.

The lamp uses an internal mb type tubing containing the LED and the electronic located in an additional IP68 tube. Different voltages can feed the electronic. The material can be equipped with all type of certified cable entries having an IP degree of protection as indicated above.

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Technical Data

Electrical data

KE-LED-EX 4006

- 12 V	0,290 A	4,2 W
- 24 V	0,180 A	5,3 W
- 42 V	0,110 A	5,5 W
- 110 V	0,050 A	6,4 W
- 230 V	0,050 A	7,0 W

KE-LED-EX 4003

- 12 V	0,200 A	2,8 W
- 24 V	0,100 A	3,0 W
- 42 V	0,075 A	3,8 W
- 110 V	0,025 A	2,8 W
- 230 V	0,030 A	3,3 W

Environmental data

IP 68 – 50 meters during 5 hours

Tamb = -20°C to + 50°C

Details of Change

- Standard update to EN IEC 60079-0:2018, EN IEC 60079-7:2015/A1:2018 and to EN 60079-18:2015/A1:2017.
- New LED type.
- Adjustment of electrical parameters.

(16) Test-Report No. 557 / Ex 8184.01 / 18

(17) Special Conditions for safe use

None

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(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

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