(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 8191 X

Issue: 01

(4) Equipment: **LED Lamp Type KE-LED-EX 50../...**

(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 8191.01 / 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 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, 2021-09-02

Dipl.-Ing. Christian Mehrhoff

(13) Annex

(14) # EU Type Examination Certificate

TÜV 18 ATEX 8191 X Issue: 01

(15) Description of equipment

15.1 Equipment and type:

The LED Lamp KE-LED-EX 5018/... is available with different supply voltage.

... to be replaced by

230	supply voltage	230 VAC
24		24 VAC/DC

The LED Lamp KE-LED-EX 5024/... is available with different supply voltage.

... to be replaced by

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

15.2 Description / Details of Change

General product information

The new LED Lamp type KE-LED-EX 5018/... is a slight modification of the type KE-LED-EX 5024/... . Both are supplied with integral cable.

The lamps use 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.

Technical Data

Electrical data

KE-LED-EX 5018

- 24 V	0,330 A	10,0 W
- 230 V	0,060 A	10,0 W

KE-LED-EX 5024

- 24 V	0,550 A	15,5 W
- 110 V	0,135 A	14,5 W
- 230 V	0,075 A	14,5 W

Environmental data

IP 68 – 50 meters during 5 hours
Tamb = -20°C to + 40°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.
- Addition of variant KE-LED-EX 5018/...
- New LED type and new antistatic material.
- Adjustment of electrical parameters.

(16) Test-Report No. 557 / Ex 8191.01 / 18

(17) Special Conditions for safe use

1. The fault current of the connected power shall be limited to values less or equal to 35A.
2. An antistatic coating covers this equipment. All precautions shall be taken to avoid damage on the translucent surface coating (abrasive particles in the environment or solvents).

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz Cologne, 2021-09-02

Dipl.-Ing. Christian Mehrhoff