



(1) **EC TYPE EXAMINATION CERTIFICATE**

(2) **Equipment or protective system intended for use  
in potentially explosive atmospheres  
Directive 94/9/EC**

(3) EC type examination certificate number: **ISSeP16ATEX0021X**

(4) Equipment or protective system:  
**Lamp model KE-LED-EX 5024**

(5) Applicant – Manufacturer – ~~Authorized representative in the Community:~~  
**KIRA Leuchten GMBH**

(6) Address: **Wiedenstrasse 6  
D - 78244 Gottmadingen - Randegg**

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

(8) ISSeP, notified body n° 492 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 atmospheres given in annex II to the Directive.

The examination and test results are recorded in confidential report n° .15154


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


EN 60079-0 : 2012 + A11 : 2013	(IEC 60079-0 : 2011)
EN 60079-7 : 2007	(IEC 60079-7 : 2006)
EN 60079-18 : 2015	(IEC 60079-18 : 2014)
EN 60079-31 : 2014	(IEC 60079-31 : 2013)

(10) If the symbol "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 EC TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of this Directive may apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

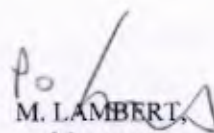
(12) The marking of the equipment or protective system shall include the following indications:

 II 2 G Ex e mb IIC T4 Gb

 II 2 D Ex tb IIIC T105°C Db IP68

Colfontaine, the 06.04.2016

INSTITUT SCIENTIFIQUE DE  
SERVICE PUBLIC  
Zoning A. Schweitzer,  
rue de la Platinerie  
B-7340 COLFONTAINE (Wasmes)  
Tél : + 32 65 610811 –  
Fax : + 32 65 610808  
**e-mail : colfontaine@issep.be**

  
**M. LAMBERT**  
Manager.

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**SCHEDULE**

(13)

(14) **EC TYPE EXAMINATION CERTIFICATE N<sup>R</sup> ISSeP16ATEX0021X**

(15) Description of the equipment or protective system:  
Lamp model KE-LED-EX 5024 with integral cable.

The lamp can be on the form of a handlamp or an armature  
The lamp is declined in 230 VAC, 110 VAC/DC and 24 VAC/DC.  
The protection degree of the enclosure is IP68 – 50 meters during 5 hours.  
The material can be equipped with any type of certified cable entries having the indicated IP degree of protection.

Electrical parameters

- 24 V	0.550 A	15 W
- 110 V	0.135 A	15 W
- 230 V	0.075 A	15 W

Routine tests

The manufacturer shall perform, on each produced equipment, a visual inspection as requested by clause 9.1 of EN 60079-18:2014 and a dielectric strength test as required by clause 9.2 of EN 60079-18:2014 and 7.1 of EN 60079-7:2007 with a test voltage of 1500 VAC

Eventual prescriptions

IP 68 – 50 metres during 5 hours

(16) Report n<sup>o</sup> 15154 of 01.04.2016

Composed in total of 40 pages, completed by the following documents

- Operating instructions, safety informations KE-LED-EX 5024/...
- The drawings:

Number	Date	Pages
KE-LED-EX 5024 – 00	22.09.2015	1,6,8,9
KE-LED-EX 5024 – 00	21.09.2015	2,3,4,5,7
KE-LED-EX 5024 – 01	12.03.2012	1
KE-LED-EX 5024 – 01	22.09.2015	2,4,5,6,7,8,9
KE-LED-EX 5024 – 01	21.09.2015	3
KE-LED-EX 5024 – 02	22.09.2015	1,2,4,5,6,7,8,9
KE-LED-EX 5024 – 02	21.09.2015	3
KE-LED-EX 5024 – 03	22.09.2015	1 to 21
KE-LED-EX 5024 – 04	22.09.2015	1 to 5
KE-LED-EX 5024 – 05	21.09.2015	1
KE-LED-EX 5024 – 05	22.09.2015	2,3
KE-LED-EX 5024 – 06	22.09.2015	1 to 25
KE-LED-EX 5024 – 08	22.09.2015	1
KE-LED-EX 5024 – 9	21.09.2015	1
KE-LED-EX 5024 – 10	22.09.2015	1
KE-LED-EX 5024 – 11	22.09.2015	1
KE-LED-EX 5024 – 12	22.09.2015	1 to 6
KE-LED-EX 5024 – 13	21.09.2015	1

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## SCHEDULE

(14)

### EC TYPE EXAMINATION CERTIFICATE N° ISSeP16ATEX0021X

(16)

Number	Date	Pages
KE-LED-EX 5024 – 13	22.09.2015	2,3
KE-LED-EX 5024 – 14	22.09.2015	1
KE-LED-EX 5024 – 15	22.09.2015	1
KE-LED-EX 5024 – 16	22.09.2015	1
KE-LED-EX 5024 – 17	22.09.2015	1
KE-LED-EX 5024 – 18	22.09.2015	1
KE-LED-EX 5024 – 19	22.09.2015	1 and 2
KE-LED-EX 5024 – 20	21.09.2015	1 to 27
KE-LED-EX 5024 - 20	04.06.2012	4
KE-LED-EX 5024 – 21	23.07.2015	1 to 3
KE-LED-EX 5024 – 22	23.07.2015	1 to 3
KE-LED-EX 5024 – 23	03.12.2013	1
KE-LED-EX 5024 – 23	23.07.2015	2,3
KE-LED-EX 5024 – 27	23.07.2015	1
KE-LED-EX 5024 – 28	23.07.2015	1 + 1
KE-LED-EX 5024 – 29	23.03.2016	1
KE-LED-EX 5024 – 30	23.03.2016	1
KE-LED-EX 5024 – 31	22.09.2015	1
KE-LED-EX 5024 – 32	22.09.2015	1
KE-LED-EX 5024 – 33	22.09.2015	1
KE-LED-EX 5024 – 34	23.03.2016	1
KE-LED-EX 5024 – 35	22.09.2015	1
KE-LED-EX 5024 – 36	22.09.2015	1
KE-LED-EX 5024 – 37	22.09.2015	1

(17) Special conditions for safe use:

#### Symbol X

- Before installing this equipment in zone of Category 2G and 2D (zone 1 and 21), an ignition hazard assessment following Annex C of IEC 60079-28 : 2015 shall be performed in order to avoid all ignition hazard due to optical radiation.
- The fault current of the power supply the equipment can be connected to shall be less or equal to 35 A
- This equipment is covered by an antistatic coating. All precautions shall be taken to avoid damage on the translucent surface coating (abrasive particles in the environment or solvents)

(18) Essential Health and Safety Requirements: Covered by the Standards listed in (9)