



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx SEV 18.0044X

Issue No: 0

Certificate history:

Issue No. 0 (2019-01-21)

Status: **Current**

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Date of Issue: **2019-01-21**

Applicant: **Underwater Kinetics**
13400 Danielson Street
US-Poway
CA 92064
United States of America

Equipment: **Hand light, Type: UK2AA, UK3AA, UK4AA, UK2AAA, UK3AAA**

Optional accessory:

Type of Protection: **i, op is**

Marking:

UK2AA:
Ex ia op is IIC T4 Ga
Ex ia op is IIIC T60 °C Db

UK3AA and UK4AA:
Ex ia op is IIC T4 Ga
Ex ia op is IIIC T75 °C Da

UK2AAA:
Ex ib op is IIB T4 Gb
Ex ib op is IIIC T55 °C Db

UK3AAA:
Ex ia op is IIC T4 Ga
Ex ia op is IIIC T55 °C Db

Approved for issue on behalf of the IECEx
Certification Body:

Martin Plüss

Position:

Manager Product Certification

Signature:
(for printed version)

Date:



2019-01-21

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Eurofins Electrosuisse Product Testing AG
Luppenstrasse 3
CH-8320 FEHRALTORF
Switzerland



Electrosuisse
Product Testing



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Manufacturer: **Underwater Kinetics**
13400 Danielson Street
US-Poway
CA 92064
United States of America

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[CH/SEV/ExTR18.0057/00](#)

Quality Assessment Report:

[DE/TUR/QAR14.0006/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Hand light

Type: UK2AA, UK3AA, UK4AA, UK2AAA, UK3AAA

Classification of installation and use: Hand-held

Ingress protection: IP6X

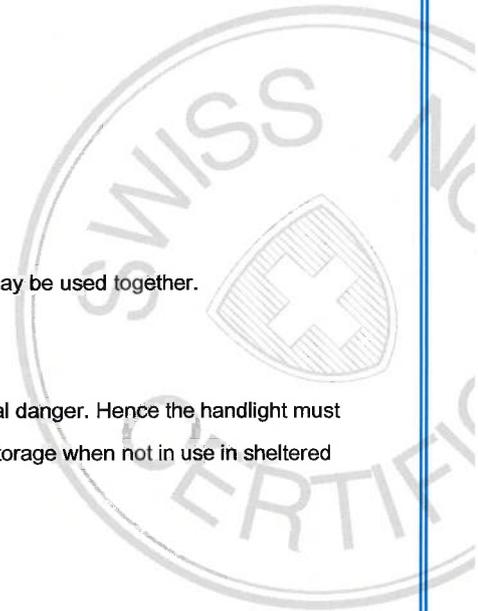
Ratings see Annexe to CoC

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Do not open in hazardous locations.
- Only the batteries listed in the operating instructions may be used.
- Only batteries of the same electrochemical system, cell type, nominal capacity and manufacturer may be used together.
- For temperature rating refer to the operating instructions.
- At the UK2AA the insulator must be installed between the batteries.
- The strength of the housing of the handlight UK2AAA corresponds only to the low risk of mechanical danger. Hence the handlight must be adequately protected by appropriate measures in addition to mechanical impact, for example, Storage when not in use in sheltered places.

Annex:

[IECEx SEV 18.0044X Annexe Issue 0.pdf](#)



Annexe to: IECEx SEV 18.0044X

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Applicant Name: Underwater Kinetics

Electrical Apparatus: Hand light

Type specifications:

UK 2AA Type:

The hand light type UK 2AA ELED-ES resp. UK 2AA ELED-ET is a universal lamp suitable for use in potentially explosive atmospheres. The light source in the lamp head consists of an LED unit. Depending on the particular model, the lamp is switched on and off with a pushbutton on the side. The above noted flashlights utilize non-replaceable LED and use two non-rechargeable, 1.5 V AA batteries.

Type reference:

UK2AA eLED-ES

UK2AA eLED-ET

Marking:

Ex ia op is IIC T4 Ga

Ex ia op is IIIC T60 °C Db

Rating:

Batteries (Alkaline - MnO ₂)	Voltage (U)	Ambient temperature range	Temperature classification
2 x DURACELL OEM (duralock); LR6 / AA	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
2 x DURACELL PLUS POWER; LR6 / AA	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
2 x DURACELL INDUSTRIAL; LR6 / AA	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
2 x VARTA; LR6 / AA / 4106	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
2 x VARTA; LR6 / AA / 4906	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
2 x Energizer Industrial LR6 / AA	3.0 V (2 x 1.5 V)	-20 °C to +30 °C	T4
2 x AA RAYOVAC	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4

Eurofins Electrosuisse Product Testing AG
Swiss Certification Body



SOCCP 035

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UK 3AA Type:

The hand light type UK3AA ELED *** is a universal lamp suitable for use in potentially explosive atmospheres. The light source in the lamp head consists of an LED unit. Depending on the particular model, the lamp is switched on and off with a pushbutton on the side or back or by screwing and unscrewing the lamp head. Depending on the particular model, the lamp housing has a special clip for attaching to Gallet firemen's helmets. The above noted flashlights utilize non-replaceable LED and use three non-rechargeable, 1.5 V AA batteries.

Type reference:

UK 3AA ELED LH-ET11P, UK 3AA ELED LHD-ET11P, UK 3AA ELED CPO-ET11P,
 UK 3AA ELED ZOOM-ET11P, UK 3AA ELED LH-ES11P, UK 3AA ELED LHD-ES11P,
 UK 3AA ELED CPO-ES11P, UK 3AA ELED ZOOM-ES11P, UK 3AA ELED LH-ET12P,
 UK 3AA ELED LHD-ET12P, UK 3AA ELED CPO-ET12P, UK 3AA ELED ZOOM-ET12P,
 UK 3AA ELED LH MB-ES11P, UK 3AA ELED LHD MB-ES11P, UK 3AA ELED CPO MB-ES11P,
 UK 3AA ELED ZOOM MB-ES11P

Marking:

Ex ia op is IIC T4 Ga
 Ex ia op is IIIC T75 °C Da

Rating:

Batteries (Alkaline - MnO ₂)	Voltage (U)	Ambient temperature range	Temperature classification
3 x DURACELL OEM (duralock); LR6 / AA	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x DURACELL PLUS POWER; LR6 / AA	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x DURACELL INDUSTRIAL; LR6 / AA	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x VARTA; LR6 / AA / 4106	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x VARTA; LR6 / AA / 4906	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x Energizer Industrial LR6 / AA	4.5 V (3 x 1.5 V)	-20 °C to +30 °C	T4
3 x Energizer Ultimate Lithium L91 LR6 / AA	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x AA RAYOVAC	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4

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UK 4AA Type:

The hand light type UK 4AA eLED is a universal lamp suitable for use in potentially explosive atmospheres. There are four variations of the flashlight that vary based on switch location - front (S1) or back (T1), and LED power settings - high (1P) or high and low (2P) light output activated by a push button. The flashlight may employ Bezel Assembly or Bezel Assembly Downlight. These bezels are interchangeable. The above noted flashlights utilize non-replaceable LED and use four non-rechargeable, 1.5 V AA batteries.

Type reference:

UK 4AA eLED ES11P, UK 4AA ELED CPO-ES11P, UK 4AA ELED ZOOM-ES11P
UK 4AA eLED ES12P, UK 4AA ELED CPO-ES12P, UK 4AA ELED ZOOM-ES12P
UK 4AA eLED ET11P, UK 4AA ELED CPO-ET11P, UK 4AA ELED ZOOM-ET11P
UK 4AA eLED ET12P, UK 4AA ELED CPO-ET12P, UK 4AA ELED ZOOM-ET12P

Marking:

Ex ia op is IIC T4 Ga
Ex ia op is IIIC T75 °C Da

Rating:

Batteries (Alkaline - MnO ₂)	Voltage (U)	Ambient temperature range	Temperature classification
4 x DURACELL OEM (duralock); LR6 / AA	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
4 x DURACELL PLUS POWER; LR6 / AA	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
4 x DURACELL INDUSTRIAL; LR6 / AA	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
4 x VARTA; LR6 / AA / 4106	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
4 x VARTA; LR6 / AA / 4906	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
4 x Energizer Industrial LR6 / AA	6.0 V (4 x 1.5 V)	-20 °C to +30 °C	T4
4 x Energizer Ultimate Lithium L91 LR6 / AA	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
4 x AA RAYOVAC	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4

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UK 2AAA Type:

The hand light type UK 2AAA eLED is a universal lamp suitable for use in potentially explosive atmospheres. The light source in the lamp head consists of an LED unit. The LED itself is operated by a LED driver unit. The lamp in the model UK2AAA eLED PEN I-ETB is switched on and off by a push-button on the back. The above noted flashlights utilize non-replaceable LED and use two non-rechargeable, 1.5 V AAA batteries.

Type reference:

UK2AAA eLED PEN I-ETB

Marking:

Ex ib op is IIB T4 Gb
 Ex ib op is IIIC T55 °C Db

Rating:

Batteries (Alkaline - MnO ₂)	Voltage (U)	Ambient temperature range	Temperature classification
2 x DURACELL, LR03/AAA/MN2400	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
2 x DURACELL PLUS; LR3/AAA/MN2400	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
2 x Energizer+; LR03/AAA/E92/AM4	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
2 x VARTA LONGLIFE EXTRA; LR3/AAA/AM4/MN2400	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
2 x AAA VARTA – 4903	3 V (2 x 1.5 V)	-20 °C to +40 °C	T4
2 x AAA RAYOVAC	3 V (2 x 1.5 V)	-20 °C to +40 °C	T4

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UK 3AAA Type:

The cap light type UK 3AAA VIZION I – E is a flashlight is a universal lamp suitable for use in potentially explosive atmospheres. It can be attached to the head or a helmet with an adjustable elastic strap. The light source consists of an LED unit. The lamp is switched on and off with a button on side. The above noted flashlights utilize non-replaceable LED and use three non-rechargeable, 1.5 V AAA batteries.

Type reference:

UK 3AAA VIZION I – E

Marking:

 Ex ia op is IIC T4 Ga
 Ex ia op is IIIC T55 °C Db

Rating:

Batteries (Alkaline - MnO ₂)	Voltage (U)	Ambient temperature range	Temperature classification
3 x DURACELL, LR03/AAA/MN2400	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x DURACELL PLUS; LR3/AAA/MN2400	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x Energizer+; LR03/AAA/E92/AM4	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x VARTA LONGLIFE EXTRA; LR3/AAA/AM4/MN2400	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x AAA VARTA – 4903	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
3 x AAA RAYOVAC	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4