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(1) **EU-Type Examination Certificate**

(2) Equipment or protective system intended for use in potentially explosive atmospheres **- Directive 2014/34/EU**

(3) Certificate number: **SEV 17 ATEX 0158 X**

(4) Product: Hand light Types refer to general product information

(5) Manufacturer: Underwater Kinetics

(6) Address: 13400 Danielson Street, Poway, CA 92064, United States of America

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

(8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, 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 confidential report no 21CH-00586.X04

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018
EN 60079-11:2012

Except in respect of those requirements listed at item 18 of the schedule.

(10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this 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:

See page 2 Ex marking

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Martin Plüss
Product Certification

(13)

(14) **EU-Type Examination Certificate no. SEV 17 ATEX 0158 X**

(15) **Description of product**

The above noted flashlights utilize non-replaceable LED and use four non-rechargeable, 1.5 V alkaline AA batteries. 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.

II 1G Ex ia IIC T4 Ga
II 1D Ex ia IIIC T_{200}135 °C Da

Classification of installation and use: Personal
Ingress protection: IP6X
Rated ambient temperature range (°C): -20 °C ...+40 °C respective -20 °C ...+30 °C

Type reference:

UK4AA eLED ES11P (SF/RFL), UK 4AA eLED CPO ES11P, UK 4AA eLED ZOOM ES11P
UK4AA eLED ES12P (SF/RFL), UK 4AA eLED CPO ES12P, UK 4AA eLED ZOOM ES12P
UK4AA eLED ET11P (SF/RFL), UK 4AA eLED CPO ET11P, UK 4AA eLED ZOOM ET11P
UK4AA eLED ET12P (SF/RFL), UK 4AA eLED CPO ET12P, UK 4AA eLED ZOOM ET12P

Rating:

Batteries (Alkaline - MnO_2)	Voltage (U)	Ambient temperature range	Temperature classification
DURACELL OEM (duralock); LR6/AA	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
DURACELL INDUSTRIAL; LR6/AA	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
DURACELL PLUS POWER; LR6/AA	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
Energizer INDUSTRIAL LR6/AA	6.0 V (4 x 1.5 V)	-20 °C to +30 °C	T4
Energizer ULTIMATE LITHIUM L91	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
RAYOVAC AA (4006)	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE; LR6/AA (4106)	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
VARTA HIGH ENERGY; LR6/AA (4906)	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE Power; LR6/AA (4906)	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4

(16) **Report number** 21CH-00586.X04

(17) **Special conditions for safe use:**

- 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.

(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(19) **Drawings and Documents**

See test report "Manufacturer's Documents"

UK Type Examination Certificate CML 22UKEX2306X Issue 0

United Kingdom Conformity Assessment

1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

2 Equipment **Hand light**
Type: Types refer to general product information

3 Manufacturer **Underwater Kinetics**

4 Address **13400 Danielson Street, Poway, CA 92064, United States of America**

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.

8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018 EN 60079-11:2012

10 The equipment shall be marked with the following:

Refer to attached certificate SEV 17 ATEX 0158 X, Issue 2 for specific marking of explosion protection symbols.

Refer to attached certificate SEV 17 ATEX 0158 X, Issue 2 for marked code and ambient temperature range.

0175

This certificate shall only be copied in its entirety and without change
www.CMLEx.com

Ben Trafford
Certification Officer

11 Description

For product description refer to attached certificate SEV 17 ATEX 0158 X, Issue 2.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	11 Oct 2022	R15366E/00	Issue of the prime certificate. SEV 17 ATEX 0158 X, Issue 2 is attached and shall be referred to in conjunction with this certificate.

Note: Drawings that describe the equipment are listed or referred to in the Annex.

13 Conditions of Manufacture

For conditions of manufacture, refer to attached certificate SEV 17 ATEX 0158 X, Issue 2.

Any routine tests/verifications required by the ATEX certification shall be conducted.

14 Specific Conditions of Use

For specific conditions of use, refer to attached certificate SEV 17 ATEX 0158 X, Issue 2.

Certificate Annex

Certificate Number	**CML 22UKEX2306X**
Equipment	**Hand light** **Type: Types refer to general product information**
Manufacturer	**Underwater Kinetics**

The following documents describe the equipment defined in this certificate:

Issue 0

For all drawings, refer to attached certificate SEV 17 ATEX 0158 X.

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres
for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SEV 18.0044X**

Certificate history:
Issue 1 (2019-10-30)
Issue 0 (2019-01-21)

Status: **Current**

Issue No: 2

Date of Issue: 2023-03-16

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: **ia**

Marking:

UK2AA:	UK3AA and UK4AA:
Ex ia IIC T4 Ga	Ex ia IIC T4 Ga
Ex ia IIIC T60 °C Db	Ex ia IIIC T_{200}135 °C Da

UK2AAA:	UK3AAA:
Ex ib IIB T4 Gb	Ex ia IIC T4 Ga
Ex ib IIIC T60 °C Db	Ex ia 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: (for printed version) 2023-03-16

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 www.iecex.com or use of this QR Code.

Certificate issued by:

Eurofins Electric & Electronic Product Testing AG
Luppmenstrasse 3
8320 FEHRALTORF .
Switzerland

eurofins | E&E

IECEx Certificate of Conformity

Certificate No.: **IECEx SEV 18.0044X**

Date of issue: 2023-03-16

Issue No: 2

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

Manufacturing locations:

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 equipment 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"

This Certificate **does not** indicate compliance with 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/ExTR18.0057/01

Quality Assessment Report:

DE/TUR/QAR14.0006/03

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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

Classification of installation and use:	Personal
Ingress protection:	IP6X
Rated ambient temperature range (°C):	-20 °C ...+40 °C respective -20 °C ...+30 °C
Rated ambient temperature range (°C) for Ex Components:	N/A

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.

IECEx Certificate of Conformity

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. The test report for EN 60079-28 is removed from the package regarding to IEC 60079-28:2015/ISH1:2019. At the marking "op is" is removed.
2. New tested battery types are added
3. Type name of UK 3AAA VIZION I is extended to UK 3AAA VIZION I – E (VIZION2)
4. The instructions are updated accordingly
5. Several manufacturer drawings are updated.

Annex:

IECEx SEV 18.0044 X Annexe Issue 2_1.pdf

SWISS ACCREDITATION sas.admin.ch SCESP 0035

Annexe to: **IECEx SEV 18.0044X** **Issue No.: 2**

Applicant Name: **Underwater Kinetics**

Equipment: **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 IIC T4 Ga
Ex ia IIIC T60 °C Db

Rating:

Batteries (Alkaline - MnO_2)	Voltage (U)	Ambient temperature range	Temperature classification
DURACELL OEM (duralock); LR6/AA	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
DURACELL INDUSTRIAL; LR6/AA	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
DURACELL PLUS POWER; LR6/AA	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
Energizer INDUSTRIAL LR6/AA	3.0 V (2 x 1.5 V)	-20 °C to +30 °C	T4
RAYOVAC AA (4006)	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE; LR6/AA (4106)	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
VARTA HIGH ENERGY; LR6/AA (4906)	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE Power; LR6/AA (4906)	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4

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 IIC T4 Ga
Ex ia IIIC T_{200}135 °C Da

Rating:

Batteries (Alkaline - MnO_2)	Voltage (U)	Ambient temperature range	Temperature classification
DURACELL OEM (duralock); LR6/AA	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
DURACELL INDUSTRIAL; LR6/AA	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
DURACELL PLUS POWER; LR6/AA	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
Energizer INDUSTRIAL LR6/AA	4.5 V (3 x 1.5 V)	-20 °C to +30 °C	T4
Energizer ULTIMATE LITHIUM L91	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
RAYOVAC AA (4006)	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE; LR6/AA (4106)	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
VARTA HIGH ENERGY; LR6/AA (4906)	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE Power; LR6/AA (4906)	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4

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:

UK4AA eLED ES11P (SF/RFL), UK 4AA eLED CPO ES11P, UK 4AA eLED ZOOM ES11P
UK4AA eLED ES12P (SF/RFL), UK 4AA eLED CPO ES12P, UK 4AA eLED ZOOM ES12P
UK4AA eLED ET11P (SF/RFL), UK 4AA eLED CPO ET11P, UK 4AA eLED ZOOM ET11P
UK4AA eLED ET12P (SF/RFL), UK 4AA eLED CPO ET12P, UK 4AA eLED ZOOM ET12P
Marking:

Ex ia IIC T4 Ga
Ex ia IIIC T_{200}135 °C Da

Rating:

Batteries (Alkaline - MnO_2)	Voltage (U)	Ambient temperature range	Temperature classification
DURACELL OEM (duralock); LR6/AA	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
DURACELL INDUSTRIAL; LR6/AA	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
DURACELL PLUS POWER; LR6/AA	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
Energizer INDUSTRIAL LR6/AA	6.0 V (4 x 1.5 V)	-20 °C to +30 °C	T4
Energizer ULTIMATE LITHIUM L91	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
RAYOVAC AA (4006)	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE; LR6/AA (4106)	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
VARTA HIGH ENERGY; LR6/AA (4906)	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE Power; LR6/AA (4906)	6.0 V (4 x 1.5 V)	-20 °C to +40 °C	T4

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 IIB T4 Gb
Ex ib IIIC T60 °C Db

Rating:

Batteries (Alkaline - MnO_2)	Voltage (U)	Ambient temperature range	Temperature classification
DURACELL LR03/AAA/MN2400	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
DURACELL PLUS LR03/AAA	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
Energizer INDUSTRIAL LR03/AAA (EN92)	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
Energizer MAX LR03/AAA (E92)	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
Energizer ULTRA+ LR03/AAA	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
RAYOVAC AAA (4003)	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE EXTRA LR03/AAA (4103)	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
VARTA HIGH ENERGY LR03/AAA (4903)	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE Power LR03/AAA (4903)	3.0 V (2 x 1.5 V)	-20 °C to +40 °C	T4

UK 3AAA Type:

The cap light type UK 3AAA VIZION I – E (VIZION2) 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 (VIZION2)

Marking:

Ex ia IIC T4 Ga
Ex ia IIIC T55 °C Db

Rating:

Batteries (Alkaline - MnO_2)	Voltage (U)	Ambient temperature range	Temperature classification
DURACELL LR03/AAA/MN2400	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
DURACELL PLUS LR03/AAA	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
Energizer INDUSTRIAL LR03/AAA (EN92)	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
Energizer MAX LR03/AAA (E92)	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
Energizer ULTRA+ LR03/AAA	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
RAYOVAC AAA (4003)	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE EXTRA LR03/AAA (4103)	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
VARTA HIGH ENERGY LR03/AAA (4903)	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4
VARTA LONGLIFE Power LR03/AAA (4903)	4.5 V (3 x 1.5 V)	-20 °C to +40 °C	T4