EU-Type Examination Certificate

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

(1)



TPS 19 ATEX 104105 0001 X Rev. 00

(4) Equipment or Protective System: Lifebuoy Light - Type: LNK-LB-03B

(5) Manufacturer: XIAMEN LONAKO INDUSTRY & TRADE CO., LTD.

(6) Address: N307, Weiye Building, China Pioneering Park 361009 Xiamen, Fujian

PEOPLE'S REPUBLIC OF CHINA

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

(8) TÜV SÜD Product Service GmbH, Notified Body no. 0123, 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 the confidential reports with no. 88.500.19.047.01.

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

EN 60079-0: 2018 EN 60079-11: 2012 EN 60079-28: 2015

- (10) If the sign "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 EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the 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:



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Certification Office Of Explosion Protection

München, 30.09.2019

Ing. Kristof De Gersem, MSc.

: Tayenen D

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Certificates without signature shall not be valid. The Certificates may only be circulated in full including its schedule(s). Extracts or alterations are subject to approval by TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. The document is administrated under the following number: EX5A 104105 0001 Rev. 00

Doc. Name: Temp-ExNBG-TPS-EU-Type-Cert-lss.03-2018

Schedule



EU-Type Examination Certificate no. (14)

TPS 19 ATEX 104105 0001 X Rev. 00

Certificate History

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue.	88.500.19.047.01	30.09.2019

(15)Description of equipment:

LNK-LB-03B is emergency lifesaving light to be installed with lifebuoy. When the life buoy it connected with have been thrown into the water, it will be automatically pulled out from the bracket by the connecting rope and drop into the water with the life buoy. After the light drop into the water, it can automatically float on the water surface with the lamp head upwards and continuously output flashing light signals. which can uninterruptedly indicate the lifebuoy position to increase the success rate of rescue

The equipment is suitable for use in Zone 0, Zone 1 and Zone 2. The equipment has two 3.0V primary batteries.

Model designation:

LNK-LB-03B.

Model difference:

N/A.

Technical data:

Product name	Lifebuoy light		
Product type	LNK-LB-03B		
Environmental Temperature	-35°C≤T≤+85°C		
Max. Nominal Current	200mA		
Battery	CR123A		
Light Source	LED		
Chromaticity	White		
Flash Frequency	50~70times/min		
Luminous Intensity	≥2.0cd		
Operation Life	At least 15h over 2cd under flashing status		
Weight	220g		
Dimension	Main body: Φ90*133mm		
Activation	Water-activation automatically		

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Warning label:

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE **INSTRUCTIONS**

Installation instruction:

See installation instructions provided by the manufacturer and part of this certification.

See also (17) Special conditions for safe use.

Test report(s): 88.500.19.047.01 (16)

Routine tests:

None.

Document List:

File no.:	Description:	Pages:	Rev:	Date:
LB-03B-A00	General Assembly Drawing	1	V0	2019-04-23
LB-03B-Label	Label	1	V0	2019-04-23
LB-03B-SS	PCB layout	1	V0	2019-04-23
LB-03B-Schematic	Circuit Principle Diagram	1	V0	2019-04-23
-	Fuse Specification (Littelfuse)	2	-	-
-	Fuse Specification (JDT fuse)	4	-	•
-	Resistor specification (Fenghua)	24	R-5.6	-
-	Resistor specification (UR)	3	-	-
IE-SP-007	Resistor specification (Ralec)	22	-	2011-05-19
-	Resistor specification (Yageo)	9	V.9	2017-12-12
-	Battery specification (Huiderui)	1	-	2019-07-12
-	Battery specification (Ramway)	2	V150 8	-
-	LED Specification (Jingtian)	8	-	2011-12-12
-	Instruction manual	5	V0	2019-04-11
DOC-03B-01	Declaration of Conformity (draft)	2	A0	2019-09-01

A copy of the full documentation is kept confidentially at TÜV SÜD files.

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EU-Type Examination Certificate no.

Product Service

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Special conditions for safe use: (17)

(14)

- 1) Ambient temperature: -35°C≤Ta≤+85°C.
- 2) Under certain extreme circumstances, exposed plastic and unearthed metal parts of the enclosure may store an ignition-capable level of electrostatic charge. Therefore, the user/installer shall implement precautions to prevent the build-up of electrostatic charge, e.g. locate the equipment where a charge-generating mechanism (such as wind-blown dust) is unlikely to be present and clean with a damp cloth only.
- 3) The batteries are integrated in the design of the equipment and they cannot be replaced by the end-user.
- (18)Essential health and safety requirements:

Assured by compliance with standards set out in (9).

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