



# IECEX Test Report Summary

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

ExTR Ref. No.: **DE/TPS/ExTR19.0024/00** Page 1 of 1

ExTR Free Ref. No.: **88.500.19.048.01** Status: **Issued**

List of Standards Covered: **IEC 60079-0:2017 Edition:7.0, IEC 60079-11:2011 Edition:6.0** Date of issue: **2019-11-05**

Issuing ExTL: **TUV PS Filderstadt - ExTL**

Endorsing ExCB: **TPS - TÜV SÜD Product Service GmbH**

Manufacturer: **XIA MEN LONAKO INDUSTRY & TRADE CO., LTD.**  
N307, Weiye Building, China Pioneering Park 361009 Xiamen, Fujian

Location of Manufacturer: **China**

Ex Protection: **Intrinsic safety "ia"**

Ratings: **6V, 0.2A, 1400mAh, -35°C≤Tamb≤+85°C**

Equipment: **Lifebuoy Light**

Model Reference: **LNK-LB-03B**

Related IECEx Certificates:  
[IECEX TPS 19.0034X Issue 0](#)

Comments:



# 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](http://www.iecex.com)

Certificate No.: **IECEx TPS 19.0034X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2019-12-04  
Applicant: **XIAMEN LONAKO INDUSTRY & TRADE CO., LTD.**  
N307, Weiye Building, China Pioneering Park  
Xiamen 361009  
China  
Equipment: **Lifebuoy Light, Model: LNK-LB-03B**  
Optional accessory:  
Type of Protection: **Intrinsic safety "ia", inherently safe optical radiation "op is"**  
Marking: **Ex ia op is IIC T4 Ga**

Approved for issue on behalf of the IECEx  
Certification Body:

**Frank Zhu**

Position:

**Technical Certifier**

Signature:  
(for printed version)

Date:

2019-12-04

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**TÜV SÜD Product Service GmbH**  
Ridlerstr. 65  
D-80339 Munich  
Germany



Product Service



# IECEX Certificate of Conformity

Certificate No.: **IECEX TPS 19.0034X**

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Date of issue: 2019-12-04

Issue No: 0

Manufacturer: **XIAMEN LONAKO INDUSTRY & TRADE CO., LTD.**  
N307, Weiye Building, China Pioneering Park  
Xiamen 361009  
**China**

Additional  
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** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-28:2015** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

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:

[DE/TPS/ExTR19.0024/00](#)

Quality Assessment Report:

[DE/TPS/QAR19.0008/00](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEx TPS 19.0034X**

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Date of issue: 2019-12-04

Issue No: 0

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

Optical irradiance according IEC 60079-0:2017 and IEC 60079-28:2015 was assessed and complied with.

## Technical data:

Product name	Lifebuoy light
Product type	LNK-LB-03B
Environmental Temperature	$-35^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$
Max. Nominal Current	200mA
Battery	CR123A
Light Source	LED
Chromaticity	White
Flash Frequency	50~70times/min
Luminous Intensity	$\geq 2.0\text{cd}$
Operation Life	At least 15h over 2cd under flashing status
Weight	220g
Dimension	Main body: $\Phi 90 \times 133\text{mm}$
Activation	Water-activation automatically

## Warning label:

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1) Ambient temperature:  $-35^{\circ}\text{C} \leq T_a \leq +85^{\circ}\text{C}$ .

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.