



DET NORSKE VERITAS

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: **DNV 14 ATEX 4843X**
- [4] Equipment or Protective System: **Lifesaving light**
- [5] Applicant – Manufacturer or Authorized representative: **XIAMEN LONAKO INDUSTRY & TRADE CO.,LTD**
- [6] Address: **N402, Weiye Building, China Pioneering Park For Overseas Chinese Scholars, Xiamen 361009, P.R. China.**
- [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] DNV, notified body number 0575 in accordance with Article 9 of 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 reports listed in section 14.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2012; EN 60079-11:2012
- [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 EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following:

 **II 2 G Ex ia IIC T3 Gb -35°C ≤ Ta ≤ +65°C**

Høvik, 2015-04-28
for Det Norske Veritas AS

Ståle Sandstad
Certification Manager



Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

The digitally signed and electronically distributed document is the original and valid certificate. Ref.: www.dnv.com/digitalsignatures

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** DNV14 ATEX 4843X

Certificate History

Revision	Description	Report no.	Issue date
-	Original certificate	Z0457555-3A	2015-04-28

[15] **Description of Equipment or Protective System**

LNK-LSL-3A and LNK-LSL-3AW lifesaving lights are used for lifejacket which are activated automatically and can emit the flashing light signals when water sensors contact at water. They are attached securely on the lifejackets by fixing clips. LNK-LSL-3A is the same as LNK-LSL-3AW except for the procedure of SCM. Both of them are powered by an FORTE CR2 battery and their enclosure is made of PC. The upper and lower shell are ultrasonically welded together to prevent water and dust. There is no associated apparatus for external circuits.

Type Identification

LNK-LSL-3A and LNK-LSL-3AW

LNK-LSL-3AW is as same as LNK-LSL-3A except the procedure of SCM. LNK-LSL-3A only output flashing signals and can be manually turn off by pressing the switch, but LNK-LSL-3AW can change the signals with the operating sequence: FLASHING-STEADY-SOS-OFF by pressing the switch.

Electrical Data

N/A

[16] **Project No.:** PRJC-457555-2013-PRC-CHN

Descriptive Documents

Title	Number	Rev.	Date
General Assembly	3A-01	V1.0	2013/07/11
PCB diagram	3A-11	V1.0	2013/07/11
Component arrangement diagram	3A-12	V1.0	2013/07/11
Schematic diagram	3A-13	V1.0	2013/07/11
Lable	3A-14	V1.0	2013/07/11
Schematic diagram of sealing glue	3A-15	V1.0	2013/07/11
BOM of LNK-LSL-3A & LNKLSL-3AW	3A-16	V1.0	2013/07/11
The process of PCB sealed by Gum	3A-17	V1.0	2013/07/11

[17] **Special Conditions for Safe Use**

Battery cannot be replaced.

[18] **Essential Health and Safety Requirements**

See part 9 of this certificate

END OF CERTIFICATE

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.