



EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED055820WS

***This is to certify** that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Life-Saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2020/1170.*

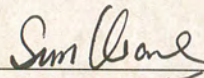
MED Item N°	MED/1.2c
USCG Category N°	161.112
Description	Position-indicating lights for life-saving appliances: (c) for lifejackets
Type	AQ40S/AQ40SM; AQ40L/AQ40LM
Applicant	AQUASPEC LIMITED HYS PORT HAMBLE, HAMBLE, SOUTHAMPTON SO31 4NN UNITED KINGDOM
Testing standards	IMO Res. MSC.81 (70), as amended, IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), ISO 24408:2005.
Reference standards	SOLAS 74 Reg.III/7, SOLAS 74 Reg.III/22, SOLAS 74 Reg.III/26, SOLAS 74 Reg.III/32, SOLAS 74 Reg.III/34, IMO Res.MSC.36(63)-(1994 HSC Code) 8, IMO Res.MSC.48(66)-(LSA Code) I, IMO Res.MSC.48(66)-(LSA Code) II, IMO Res.MSC.97(73)-(2000 HSC Code) 8.

Issued in SHANGHAI on
September 2, 2020

This Certificate is valid until
September 1, 2025

This Certificate consists of this sheet plus an attachment




Qiang Sun

RINA Services S.p.A.





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Manufacturer

XIAMEN LONAKO INDUSTRY & TRADE CO., LTD

Place of Manufacturer

N307
WEIYE BUILDING
CHINA PIONEERING PARK FOR CHINESE OVERSEAS SCHOLARS Xiamen
CHINA

Name & place of Authorised Representative

Mr. Johannes Graf Strachwitz
Walhallastraße 38, 80639 München, Germany
GERMANY

Product Description

Model of Lights:

AQ40S - Flashing light automatically activated by water sensor and with on/off manual switch;
AQ40SM - Flashing/Steady/SOS light automatically activated by water sensor and with on/off manual switch;
AQ40L - Flashing light automatically activated by water sensor on wire and with on/off manual switch;
AQ40LM - Flashing/Steady/SOS light automatically activated by water sensor on wire and with on/off manual switch.

Dimensions of main body:

AQ40S/SM: (50.8 x 23.0 x 31.8) mm;
AQ40L/LM: (51.5 x 23.0 x 31.8) mm.

Lights Characters:

Color of Dome: Transparent (material: Polycarbonate);

Total Weight: AQ40S/SM: 31.5g (including clip);
AQ40L/LM: 40.5g (including clip).

Flash Rate: 56 flashes per minute;

Battery: 1 x 3.0 Volt, 1300mAh, model CR123A lithium;

Bulb: White chip LED;

Working Temperature: -1°C ~ +30°C.

The light is supplied with a clamp for fastening to the lifejacket.

Model AQ40L and AQ40LM are designed with water sensor on wire (length 600 mm, Ø 3 mm).

Tests Carried Out

-Evaluation and Test Reports edit by RINA Shanghai Office in accordance with IMO Res. MSC.81(70) as amended by Res. MSC.226(82) and filed by RINA with No.: CSST-8970 and No.: CSST-8971.

-Additional Evaluation and Test Reports [for AQ40L / AQ40LM (Ref. No.:2020AQ40LM)] and [for AQ40S / AQ40SM (Ref. No.:2020AQ40SM)] edit by RINA Shanghai Office in accordance with IMO Res. MSC.81(70) as amended by Res. MSC.226(82) and filed by RINA with No.: SHFP-15386 and No.: SHFP-15387.

-Test Report (Ref. No.: RZ2010-0015) - Lithium manganese dioxide battery, edit by Guangzhou Vkan Certification and Testing Institute and filed by RINA with No.: CSST-8972.

-Test Reports (Ref. No.: 20092276 and 20092277) edit by Center of Analysis & Measurement of Shanghai Institute of Industrial Microbiology and filed by RINA with No.: SHFP-15382 and No.: SHFP-15383.



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Continued:

-Inspection Reports (Ref. No.: 2010YW035) edit by National Supervision and Testing Center of Fishery Machinery and Instrument and filed by RINA with No.: SHFP-15385.

-Inspection Reports (Ref. No.: 2012YW034 and 2012YW035) edit by National Supervision and Testing Center of Fishery Machinery and Instrument and filed by RINA with No.: SHFP-15389 and No.: SHFP-15388.

- EMC Test Reports [for AQ40L / AQ40LM (Ref.: No.2020EC-WJ0060)] and [for AQ40S / AQ40SM (Ref.: No.2020EC-WJ0059)] edit by Xiamen Products Quality Supervision & Inspection Institute according to Chapter 9.3, 10.4 and 10.9 of IEC 60945:2002 incl. IEC 60945 Corr.1 (2008) and filed by RINA with No.: SHFP-15398 and No.: SHFP-15399.

-Additional Evaluation and Test Reports [for AQ40L / AQ40LM (Ref. No.:2020-1AQ40LM)] and [for AQ40S / AQ40SM (Ref. No.:2020-1AQ40SM)] edit by XIAMEN LONAKO INDUSTRY & TRADE CO., LTD in accordance with ISO 24408:2005 and filed by RINA with No.: SHFP-16285 and No.: SHFP-16286.

Field of Application

Flashing light for lifejackets designed in compliance with IMO Res MSC 207(81).

Reference Documents

Technical drawings and manuals approved and filed by RINA listed on Approval letter No.: SHFP/2020/00279/XZO01 and SHFP/2020/00512/XZO01.

Remarks

Previous issued MED Module B certificate No.: MED096017WS which will be expired on August 19, 2022 was annulled and replaced accordingly.



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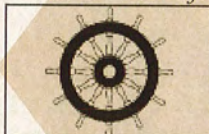




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The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX Notified Body number undertaking surveillance module
YYYY The year in which the mark is affixed

USCG Approval

This product has been assigned a U.S. Coast Guard module B number (*USCG number*: **161.112/EC0474**) to note type approval to Module B only as it pertains to obtaining U.S. Coast Guard approval as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" as amended by Decision N. 1/2018 signed on 18th February 2019.

The manufacturer is allowed to affix the U.S. Coast Guard approval number to the above equipment subject to the authorization of the Notified Body undertaking the surveillance module.

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reappraised prior to it being placed on board vessels to which the amended regulations or standards apply.



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