

## **EC Type-Examination (Module B)**

Directive for Marine Equipment

Certificate No.: **DK-0200-MarED-199 version 4**Issued by FORCE Certification A/S - EC-notified body number 0200

This is to certify that:

FORCE Certification A/S did undertake the relevant quality assessment procedures for the equipment of the manufacturer identified below which was found to be in compliance with the Fire protection requirements of Marine Equipment Directive (MED) 96/98/EC, as amended, last amended by Directive 2015/559/EU (11th Amendment) subject to any conditions in the schedule attached hereto.

Applicant and Manufacturer:

**Alcares ApS** 

Rugmarken 10-bygning 6

3650 Ølstykke

**Denmark** 

Identification of Marine Equipment:

Annex 1.A Item:

**ANNEX A.1, item A.1/1.2c** 

Product Type:

Position-Indicating Lights for Lifejackets and Survival Suits

**Product Designations:** 

Jack A1 Jack A1-Alk

Specified Standard:

LSA code MSC.48(66) adopted on 4 June 1996 and

MSC.81(70) adopted on 11th December 1998

Amendments to LSA code:

MSC.207(81) adopted on 18 May 2006 MSC.218(82) adopted on 8 December

2006

Amendments to testing methods: MSC.200(80) adopted on 13 May 2005 MSC.226(82) adopted on 8 December

2006

MSC.323(89) adopted on 20 May 2011

The examined samples are found to fulfil the requirements stated in:

The International Testing Standard IMO Res. MSC.81(70) and the applicable reg. SOLAS 74 as amended, where the relevant requirements are specified in ANNEX A.1, item A.1/1.2c of The Directive.

Documentation for observance of relevant requirements stated in ANNEX B (Module B) of the Directive and the basis for the type examination are described in the appendix to this certificate.

This certificate will remain valid unless cancelled or revoked, provided the conditions in the attached appendix are complied with and the equipment remains satisfactory in service.

The certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with the notified body named on this certificate.

Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be reapproved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate replaces former EC-type examination certificate DK-0200-MarED-199 version 3 dated 2013-09-30

FORCE Certification A/S task No.: 116-26028

FORCE Certification A/S ID No.: Dk-0200-MarED-01021

Date of issue: 2016-07-01 Date of expiry: 2021-07-01

Niels Jørgen Sibbernsen

Certification manager

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Philippa W. Osted

Examiner

The Mark of Conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity may only be issued when the production/product assessment module (D, E or F), ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

Extracts from this EC Type-Examination Certificate may only be reproduced with a written permission from FORCE Certification A/S

# Appendix to EC Type-Examination Certificate

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Applicant and manufacturer: Alcares ApS

Rugmarken 10-bygning 6

3650 Ølstykke Denmark

**Identification of Marine Equipment:** 

Annex 1.A Item:

**ANNEX A.1, item A.1/1.2c** 

Product Type:

Position-Indicating Lights for Lifejackets and Survival Suits

Product Designations:

Jack A1 Jack A1-Alk

#### Design:



Jack A1-Alk

# **Appendix to EC Type-Examination Certificate**

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### **History:**

Issue/change:	Document:	Date:
<ul> <li>Original certificate</li> <li>Correction</li> <li>Update of certificate – 7<sup>th</sup></li> <li>amendment, use of alternative</li> <li>battery and separated "List of</li> </ul>	DK-0200-MarED-199 ver. 1 DK-0200-MarED-199 ver. 2 DK-0200-MarED-199 ver. 3	2012-05-23 2012-06-11 2013-09-30
materials" - Alternative batteries, update to 11 <sup>th</sup> amendment, new expiry date	DK-0200-MarED-199 ver. 4	2016-07-01

## Documentation for observance of the relevant requirements:

Test House	File No.	Testing/Inspection of:
FORCE Technology	112-24477	Supplementary testing of Jack A1 - Verification of new activation button
FORCE Technology	112-22803	Supplementary testing of Jack A1 - Alternative light diode — DURIS E 5
Delta - Danish Electronics, Lights and Acoustics	DELTA L102798-4783	Supplementary testing of the use of Varta battery
FORCE Technology	116-26028.b	Supplementary testing of the use of Varta battery
FORCE Certification A/S	DK-0200-MarED-147 ver. 3	The client informed that the light Jack A1 was type identical to Jack A except for light diode and activation button.  Relevant test etc. reports regarding Jack A is stated below:
FORCE Technology	109-24341.a	Type Testing of Jack M*
FORCE Certification A/S	DK-0200-MarED-129 v. 3	(Type identical light Jack M)
Delta - Danish Electronics, Lights	DELTA-L102003-3168 rev.1	Light Test
and Acoustics	DELTA-L102003-3169	Light Test
	DELTA-L102007-3227	Chromaticity Test, Drop Test
	DELTA-A506584	Vibration Test
FORCE Technology Delta - Danish Electronics, Lights	110-26415.b DELTA-L102253-3417	Supplementary testing of Jack A Supplementary testing of Jack A
and Acoustics FORCE Technology	110-26415.d	Supplementary testing of the use of alternative battery (Jack A-ALK)
Delta - Danish Electronics, Lights and Acoustics	DELTA-L102253-3433	Supplementary testing of the use of alternative battery (Jack A-ALK)
FORCE Technology	110-34454/111-22274	Use of alternative batteries (See DELTA reports below):
Delta - Danish Electronics, Lights and Acoustics	DELTA-L102372-3525	Supplementary testing of the use of Kendal alkaline battery
Delta - Danish Electronics, Lights and Acoustics	DELTA-L102372-3524	Supplementary testing of the use of lithium battery from Great Powers
Delta - Danish Electronics, Lights	DELTA -L102692-4191	Supplementary testing of the use of
and Acoustics	rapport(UK)	Reiden battery

## **Appendix to EC Type-Examination Certificate**

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\*) Type testing was performed on lifejacket light model Jack M which is type-identical to model Jack A, except that model Jack A has an automatic water activation mechanism (print circuit board).

Partial conclusion:

The position indicating lights designated "Jack A1" and "Jack A1-Alk" were found to fulfil the requirements in The International Testing Standard IMO Res. MSC.81(70) and the applicable reg. SOLAS 74 as amended, where the relevant requirements are specified in ANNEX A.1, item A.1/1.2c of the Directive, as well as the requirements in ANNEX B (Module B) of the Directive.

The following documentation was available: - Drawings

- Specification of print circuit

Description of quality management system:

User Manual and marking:

List of materials/manufacturers used for

manufacturing the device:

Module D certificate - DK-0200-MarED-QA-132

See report 112-24477

See "List of Materials for DK-0200-MarED-199" valid on

the date of production.

#### Conclusion

Based on the above mentioned attestation it can be concluded that the position indicating lights designated, "Jack A1" and "Jack A1-Alk", " meet the conditions of EC type-examination in accordance with the requirements of Marine Equipment Directive (MED) 96/98/EC, as amended, last amended by Directive 2015/559/EU (11th Amendment)

FORCE Certification A/S task No.: 116-26028

Date: 2016-07-01

Philippa W. Osted

Examiner