

EC Type-Examination (Module B)

Directive for Marine Equipment

Certificate No.: **DK-0200-MarED-129 version 8**

Issued by FORCE Certification A/S - EC-notified body number 0200

This is to certify that:

FORCE Certification A/S did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Life Saving Appliance requirements of Marine Equipment Directive (MED) 2014/90/EU, as amended, last amended by Regulative 2017/306/EU subject to any conditions in the schedule attached hereto.

Applicant and Manufacturer: **Alcares ApS
Rugmarken 10
3650 Ølstykke
Denmark**

Identification of Marine Equipment:
Item: **MED/1.2c**
Product Type: **Position-indicating lights for life-saving appliances**
Product Designation: **Jack M
Jack M-Alk**

Specified Standard: **LSA code MSC.48(66) adopted on 4 June 1996 and MSC.81(70)
(Tested in accordance with): **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 the amendment to The Directive, item MED/1.2c

Documentation for observance of relevant requirements stated in ANNEX II (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 new version of EC-Type Examination Certificate DK-0200-MarED-129 version 7 dated 2016-08-29 is issued due to the implementation of the new Marine Equipment Directive.

FORCE Certification A/S task No.: 117-24664


FORCE Certification A/S ID No.: 02149

Date of issue: 2017-02-22

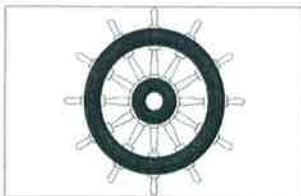
Date of expiry: 2022-02-22



Niels Jørgen Sibbernsen
Certification Manager



Philippa Weirup 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 II 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

Directive for Marine Equipment

Certificate No.: DK-0200-MarED-129 version 8
Issued by FORCE Certification A/S - EC-notified body number 0200

Applicant and
Manufacturer: **Alcares ApS
Rugmarken 10
3650 Ølstykke
Denmark**

Identification of Marine Equipment:

Item: **MED/1.2c**

Product Type: **Position-indicating lights for life-saving appliances**

Product Designation: **Jack M
Jack M-Alk**

Design:



"Jack M"

Appendix to EC Type-Examination Certificate

Directive for Marine Equipment



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History:

Issue/change:	Document:	Date:
- Original certificate	DK-0200-MarED-129 ver. 1	2010-03-02
- Correction of test report 109-24341. New designation 109- 24341.a Updating of certificate to 5th Amendment	DK-0200-MarED-129 ver. 2	2010-04-23
- Use of alternative battery (alkaline type) and alternative supplier of circuit board	DK-0200-MarED-129 ver. 3	2010-06-18
- Use of Lithium battery from Great Powers, and use of Kendal alkaline battery. Updating of certificate to 6th Amendment	DK-0200-MarED-129 ver. 4	2011-12-15
- Update of certificate – 7th amendment, new version added, use of alternative battery and separated "List of materials"	DK-0200-MarED-129 ver. 5	2013-09-30
- Alternative batteries	DK-0200-MarED-129 ver. 6	2016-07-04
- Address corrected	DK-0200-MarED-129 ver. 7	2016-08-29
- Update due to the implementation of new Marine Equipment Directive and new expiry date	DK-0200-MarED-129 ver. 8	2017-02-22

Appendix to EC Type-Examination Certificate

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Documentation for observance of the relevant requirements:

Test House	File No.	Testing/Inspection of:
FORCE Technology	109-24341.a	Type Testing of Jack M
DELTA - Danish Electronics, Lights and Acoustics	DELTA-L102003-3168 rev.1 DELTA-L102003-3169 DELTA-L102003-3170 DELTA-A506584	Light Test Light Test Chromaticity Test, Drop Test Vibration Test
FORCE Technology	110-26415.a	Supplementary testing of the use of alternative battery and
DELTA - Danish Electronics, Lights and Acoustics	DELTA-L102253-3418	new supplier of circuit board Supplementary testing of the use of alternative battery and new supplier of circuit board
FORCE Technology	110-34454	Use of alternative batteries:
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 and Acoustics	DELTA -L102692-4191 rapport(UK)	Supplementary testing of the use of Reiden battery
DELTA - Danish Electronics, Lights and Acoustics	DELTA L102798-4783	Supplementary testing of the use of Varta battery on type identical light
FORCE Technology	116-26028.b	Supplementary testing of the use of Varta battery on type identical light

Partial conclusion: The device designated "Jack M" and "Jack M-Alk" is 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 the amendment to The Directive, item MED/1.2c as well as the requirements in ANNEX II (Module B) of the Directive.

The following documentation was available:

Description of quality management system:	Module D certificate - DK-0200-MarED-QA-132/10
User Manual and marking:	FORCE Technology report 109-24341.a
List of materials/manufacturers used for manufacturing the device:	"List of Materials for DK-0200-MarED-129" valid on the date of production.
Technical documentation:	- Drawings - Specification of battery - Specification of print circuit

Conclusion

Based on the above mentioned attestation it can be concluded that the position indicating light designated, "Jack M" and "Jack M-Alk" meets the conditions of EC type-examination in accordance with the Marine Equipment Directive (MED) 2014/90/EU as amended, last amended by Regulative 2017/306/EU (1st Amendment).

FORCE Certification A/S task No.: 117-24664

Date: 2017-02-22

A handwritten signature in blue ink, appearing to read "P. Weirup Osted".

Philippa Weirup Osted
Examiner