

EC Type-Examination (module B) Certificate

Directive on Marine Equipment

Certificate No.: 0200-MarED-03141 version 5

This is to certify that: FORCE Certification A/S did undertake the relevant type approval procedures for the type of equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU, subject to any conditions in the appendix attached hereto.

Manufacturer: **Ideas Connected Limited, Room 1310, 13/F Remex Center, 42 Wong Chuk Hang Road, Wong Chuk Hang, Hong Kong**

Authorised representative: **Survitec Safety Solutions Norway AS, Standveien 20, 1366 Lysaker, Norway**

Directive Reference: **MED Directive 2014/90/EU, Regulation (EU) 2022/1157**

Product designation: **CS-SL2, CS-SL3**

In versions: **CS-SL2-WS3, CS-SL3-WS3**

Regulation item: **MED/1.2c**

Product type: **Position-Indicating Lights for Live Saving Appliances**

Product description: **Lifejacket light**

Specified standard(s): **LSA code MSC.48(66) adopted on 4 June 1996 and MSC.81(70) adopted on 11th December 1998, EN 60945:2002 incl. IEC 60945 Corr. 1:2008 and ISO 24008:2005**

Amendments to LSA code:
MSC.207(81) adopted on 18 May 2006
MSC.218(82) adopted on 8 December 2006

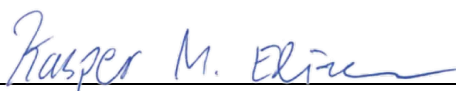
Amendments to testing methods:
MSC.200(80) adopted on 13 May 2005
MSC.226(82) adopted on 8 December 2006
MSC.323(89) adopted on 20 May 2011

The attached appendix forms a part of this certificate. Documentation for observance of relevant requirements and the basis for the type-examination are described in the appendix to this certificate. This certificate will remain valid unless suspended, expired or withdrawn, provided the conditions in the attached appendix are complied with. The manufacturer shall inform FORCE Certification A/S of any contemplated changes.

This certificate replaces the former certificate no. 0200-MarED-03141 version 4 issued 2022-10-31 due to adding of supplementary test reports. Existing products conforming to the previous version of this certificate remains valid.

Date of issue: **2023-05-12**

Date of expiry: **2027-10-31**



Kasper Munk Eliassen
Certification Manager



Allan Laursen
Examiner

FORCE Certification A/S task No.: **123-24689** / Certificate ID: **0200-MarED-03141-5**

This equipment is covered by the scope of "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment" signed February 18th, 2019" According to U.S. Coast Guard Approval Category No.:161.112. A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F) as allowed by the Mutual Recognition Agreement.

Note 1: 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.

Note 2: 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.

Note 3: 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-control phase module (D, E or F) of ANNEX B of the Directive is fully complied with and controlled by a written inspection agreement with a notified body.

Note 4: Status of this certificate can be verified on www.forcecertification.com. This EU Type-Examination Certificate is the property of FORCE Certification A/S. Extracts of this certificate may only be reproduced with a written permission from FORCE Certification A/S.

Appendix to EC Type-Examination Certificate

Directive on Marine Equipment (Module B)

Certificate No.: 0200-MarED-03141 version 5
Issued by FORCE Certification A/S - EU-notified body number 0200

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Product designation: **CS-SL2, CS-SL3**

In versions: **CS-SL2-WS3, CS-SL3-WS3**

Regulation item: **MED/1.2c**

Product type: **Position-Indicating Lights for Live Saving Appliances**

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Photo of product



"CS-SL2-WS3"

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Approval documentation

Documentation for observance of relevant requirements stated in the applied standard(s):

Test house	Report No.:	Testing/Inspection of:
FORCE Technology	117-22067.e	Vibration and type test of CS-SL2 WS3 2835 LED external contact
FORCE Technology	115-30226.a rev. 2	Fire test (type identical light with regards to materials)
FORCE Technology	115-22747.a	Light Tests (model CW-LUL-WS2)*
FORCE Technology	110-23359	Type Testing of LED light (model CS-LJL-WS)**
Delta - Danish Electronics, Lights and Acoustics	117-323-096_G rev. 1 & 117-323-135_G	Chromaticity Test CS-SL2 WS3 2835 LED
FORCE Technology	110-34774	Drop Test, Light tests CS-SL2 WS3 2835 LED
FORCE Technology	110-34774	Type testing of LED light (supplementary testing of model CS-RL1-WS1)*
Bundesamt für Seeschifffahrt und Hydrographie	454.PIL/Ideas Connect Ltd/1	Partial retesting due to change of components for version CS-SL3 / CS-SL3-WS3***
FORCE Technology	122-34467.c	Supplementary test report for Switch arrangement test, Fire test and Rain test and water tightness test
FORCE Technology	123-23772.c	Supplementary test report for oil resistance

*) model CS-LUL-WS2 is type-identical to CW-LUL-WS2, only difference is the designation.

**) The manufacturer informs that the LED Light model CS-CL2-WS0 is type-identical to model CS-LUL-WS2, CS-LJL-WS and CS-RL1-WS1 with regards to electronic components and circuit except SMD inductor and tact switch, switch on main circuit board and other LED and added a SMD high current ferrite bead.

***) updated the energy management IC to be more efficient and updated the 2835 LED. The housing and battery remain the same as before.

Place(s) of production

Where the equipment is manufactured or assembled:

Company:	Address:
Ideas Connected Limited	iConn Precision (Shenzhen) Limited, Unit 2, Block A2, Tianyang Industrial Park No. 13 Tianyang 4th Road, Bao An, Shenzhen, China

Limitations/restrictions

None

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Technical documentation

The following documentation was available

- Description/drawings: Drawings of the different components/parts
Stored in FC task no. 117-22067
- Specifications of sub-components: Electronic Technical Documentation VI, October 26,
2017 & Battery specification
Stored in FC task no. 117-22067
- Information on materials/components and suppliers: See "List of Materials for DK-0200-MarED-03141" valid
on the date of production.

Exemption of 10.4.2 Mould Growth test under LSA
Code Chapter 1, clause 1.2.2.4 and MSC.81(70) Annex
6 clause 10.4.2. Stored in FC task no. 123-24689
- Marking and user info: See example for CS-LJL-WS1, "Technical File Index,
Revision 1, April 21, 2010D", DK-0200-PPE-139
- Description of the manufacturer's quality system: FC Certificate "0200-MarED-QA-190"

History

Issue/change:	Certificate No.:	Certificate ID:	Issue date:
- Original certificate	0200-MarED-03141 version 1	03141	2017-10-31
- Update to new Regulative	0200-MarED-03141 version 2	07298	2019-09-25
- Update with regards to CS-SL3/CS-SL3-WS3	0200-MarED-03141 version 3	07808	2019-12-19
- Renewal of certificate	0200-MarED-03141-version 4	0200-Mared-03141-4	2022-10-31
- Adding supplementary test reports	0200-MarED-03141-version 5	0200-Mared-03141-5	2023-05-12

Marking

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

Conclusion

Based on the above-mentioned attestation it can be concluded that the equipment, CS-SL2 / CS-SL3 and version CS-SL2-WS3 / CS-SL3-WS3, was found to be in compliance with the requirements of Marine Equipment Directive (MED) 2014/90/EU last amended by Regulation (EU) 2022/1157

End of certificate