

EC Type-Examination (Module B)

Directive for Marine Equipment

Certificate No.: **0200-MarED-03142 version 2**

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 and Implementing Regulative (EU) 2018/773 subject to any conditions in the schedule attached hereto.

Applicant and Manufacturer: **Ideas Connected Limited**
Room 1310, 13/F., Remex Centre
42 Wong Chuk Hang Road
Hong Kong
People's Republic of China

Identification of Marine Equipment:

Item: **MED/1.2c**

Item Designations: **Position-Indicating Lights for Live Saving Appliances**
- for lifejackets

Product Designations: **CS-SA1**

In versions: **CS-SA1-WS0**

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 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 is a new version of existing certificate 0200-MarED-03142 ver 1, FC ID No. 03142, due to update to new Regulative.

FORCE Certification A/S task No.: 119-33360

Date of issue: 2019-09-25

Date of expiry: 2022-10-31



Kasper Munk Eliassen
Certification manager



Søren Bo Jensen
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

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

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Applicant and
Manufacturer: Ideas Connected Limited
Room 1310, 13/F., Remex Centre
42 Wong Chuk Hang Road
Hong Kong
People's Republic of China

Identification of Marine Equipment:
Item: MED/1.2c

Item Designations: Position-Indicating Lights for Live Saving Appliances
- for lifejackets

Product Designations: CS-SA1
In versions: CS-SA1-WS0

Design:



CS-SA1-WS0

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History:

Issue/change:	Document:	FC ID No.	Date:
- Original certificate	0200-MarED-03142 version 1	03142	2017-10-31
- Update to new Regulative	0200-MarED-03142 version 2	07299	2019-09-25

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Documentation for observance of the relevant requirements:

Test House	File No.	Testing/Inspection of:
FORCE Technology	117-22067.f and g	Vibration and type test LED 2835 & 3535
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_A Rev 1 & 117-323-096_B Rev 1	Chromaticity Test LED 3835 & 3535
	117-323-135_A & 117-323-135_B	Drop Test, Light tests LED 3835 & 3535
FORCE Technology	110-34774	Type testing of LED light (supplementary testing of model CS-RL1-WS1)*

*) 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.

Partial conclusion: The examined samples are found to fulfil the requirements in the applicable reg. SOLAS 74, as amended, and the International Testing Standard IMO Res. MSC 81(70) referred to in MED/1.2c as well as the requirements in ANNEX II, Module B of the directive

The following documentation was available:

Technical specification:

- CS-SA1-WS0 SA1-B1 Bill of materials
- List of materials
- Drawings of the different components/parts
- Specification of battery
- Electronic Technical Documentation VI, October 26 2017

Description of quality management system:

FC Certificate "DK-0200-MarED-QA-190"

User manual and marking:

See example for CS-LJL-WS1, "Technical File Index, Revision 1, April 21, 2010D", DK-0200-PPE-139

List of materials/manufacturers used for manufacturing the device:

See "List of Materials for DK-0200-MarED-03142" valid on the date of production.

Conclusion

Based on the above mentioned attestation it can be concluded that the light designated, CS-SA1 and CS-SA1-WS0, meet the conditions of EC type-examination in accordance with the Marine Equipment Directive (MED) 2014/90/EU and Implementing Regulative (EU) 2018/773.

FORCE Certification A/S task No.: 119-33360

Date: 2019-09-25

A handwritten signature in blue ink, appearing to read "Søren Bo Jensen".

Søren Bo Jensen
Examiner