DANAK
PROD Reg. nr. 7020

FORCE Certification

EC Type-Examination (Module B)

Directive for Marine Equipment
Certificate No.: **0200-MarED-03143 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-CL2**
In variations:	**CS-CL2-WS0** (without external switch) and **CS-CL2-WS3** (with external switch)
Specified Standard: (Tested in accordance with):	**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 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 is a new version of existing certificate 0200-MarED-03143 ver 1, FC ID No. 03143, due to update to new Regulative.

FORCE Certification A/S task No.: 119-33360 / FC ID No. 07300

Date of issue: 2019-09-25
Date of expiry: 2022-10-31

Kasper Munk Eliasen
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

Certificate No.: 0200-MarED-03143 version 2
Issued by FORCE Certification A/S - EC-notified body number 0200

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-CL2
In variations:	CS-CL2-WS0 (without external switch) and CS-CL2-WS3 (with external switch)
Design:	

CS-CL2-WS3

CS-CL2-WS0

History:

Issue/change:	Document:	FC ID No.	Date:
- Original certificate	0200-MarED-03143 version 1	03143	2017-10-31
- Update to new Regulative	0200-MarED-03143 version 2	07300	2019-09-25

Appendix to EC Type-Examination Certificate

Directive for Marine Equipment

FORCE Certification

Certificate No.: 0200-MarED-03143 version 2
Issued by FORCE Certification A/S - EC-notified body number 0200

Documentation for observance of the relevant requirements:

Test House	File No.	Testing/Inspection of:
FORCE Technology	117-22067.a 117-22067.c	Vibration and type test of CS-CL2 WS3 2835 LED external contact and 3535 LED external contact
FORCE Technology	117-22067.b	Vibration and type test of CS-CL2 WS0 LED 3535 internal 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_C, 117-323-096_D Rev 1 117-323-096_E, 117-323-096_F rev. 1 117-323-135_B, 117-323-135_D 117-323-135_C	Chromaticity Test LED 2835 Chromaticity Test LED 3535 Drop Test, Light tests CS-CL2 WS3 LED 2835, Led 3535 Drop Test, Light tests CS-CL2 WS0 LED 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-CL2-WS0 CL2-B1 Bill of materials - CS-CL2-WS3 CL2-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-03143" valid on the date of production.

Conclusion

Based on the above mentioned attestation it can be concluded that the light designated, CS-CL2, CS-CL2-WS0 and CS-CL2-WS3 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

Søren Bo Jensen
Examiner