

EC Type Examination Certificate

Notified Body 0729

This is to certify that ABS Europe Ltd., as a Notified Body under the authorization of UK MCA by Merchant Shipping Equipment Regulation, SI 1999, Number 1957 and M Notice Number 1734, as amended, did undertake the relevant type examination procedure of the product listed and same was found to be in compliance with the provisions of these Regulations and EU Directive 96/98/EC of 20 December 1996 as amended by EU Directive 2013/52/EU

ANNEX A.1 ITEM NUMBER: A.1/1.2(c)

CERTIFICATE NUMBER: 15-HS1376231-EC

APPLICANT: ACR Electronics Inc.

PLANT LOCATION: Fort Lauderdale, Florida, USA

PORT OFFICE: Fort Lauderdale, Florida, USA

PRODUCT DESIGNATION: Position-indicating lights for life-saving appliances – for lifejackets
Firefly Pro and Firefly Pro Waterbug Lifejacket Light

STANDARDS AND REGULATIONS: SOLAS 1974 as amended. Regulations X/3, III/4, 7, 22, 26, 32 & 34;
IMO Resolution MSC.36 (63)-(1994 HSC Code) Section 8;
IMO Resolution MSC.48 (66)- (LSA Code) Section II;
IMO Resolution MSC.97 (73)-(2000 HSC Code) Section 8;
IMO Resolution MSC.81 (70) Part 1, Section 10

THIS CERTIFICATE IS ISSUED IN COMPLIANCE WITH CONFORMITY ASSESSMENT MODULE B OF THE REGULATIONS AND DIRECTIVES LISTED ABOVE.

ISSUE DATE: 1 May 2015

EXPIRATION DATE: 19 October 2019

SIGNATURE:



S. Balakan

Should the specified regulations or standards be amended during the validity of this certificate, the products are to be re-approved prior to being placed on board vessels to which the amended regulations or standards apply.

This "Mark of Conformity" may only be affixed to the above equipment and a Manufacturer's Declaration of Conformity 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 agreement with a Notified Body.

The attached document list forms part of this Certificate.

Certificate No.: 15-HS1376231-EC

Entry Date: 1 May 2015

Name of Equipment/
Component Manufacturer:



Tel: +1 954 981 3333
Fax: +1 954 983 5087

Email: info@acrartex.com
Website: www.acrartex.com

Equipment/Component: Position-indicating lights for life-saving appliances: for lifejackets

Model: FireFly Pro lifejacket light –Manually activated;
FireFly Pro Waterbug lifejacket light – Water activated

Description: High intensity LED strobe light for use with life vests, safety harnesses, float coats, work suits, immersion suits, backpacks and flying suits etc.

Intended Service: Manual or water activated flashing lifejacket or personal floatation device rescue strobe light.

Ratings:	Visibility:	up to 1 miles (1.6 km) to 2 mile (3.2 km)
	Flash rate:	60 ± 10 per minute
	Luminous intensity:	not less than 0.75 cd
	Continuous operation:	8 hours minimum

Standards: European Union Marine Equipment Directive 96/98/EC as amended by 2013/52/EU

SOLAS 1974 as amended. Regulations X/3, III/4, 7, 22, 26, 32 & 34;
IMO Resolution MSC.36 (63)-(1994 HSC Code) Section 8;
IMO Resolution MSC.48 (66)- (LSA Code) Section II;
IMO Resolution MSC.97 (73)-(2000 HSC Code) Section 8;
IMO Resolution MSC.81 (70) Part 1, Section 10

Service Restrictions: Power source is 2 “AA” lithium batteries with expiration date five (5) years. Batteries to be replaced prior to manufacturers marked expiration date.

Comments: Approved in accordance with the Life Saving Appliances requirements for ‘Position-indicating lights for life-saving appliances: for lifejackets’, item A.1/1.2(c) of the European Union Marine Equipment Directive 96/98/EC as amended by Directive 2013/52/EU.

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Each light is to be as per the requirements of LSA Code.

The means of attachment of the light to the lifejacket type where the subject design of light is fitted should be tested in accordance with the IMO Resolution MSC.81(70), I/10.3.3



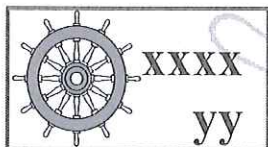
Comments:

The arrangements and installation of the lights on board are not part of this certificate.

This 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 products are to be re-approved prior to being placed on board vessels to which the amended regulations or standards apply.

The "Mark of Conformity" may only be affixed to the above equipment and a Manufacturer's Declaration of Conformity 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 agreement with a Notified Body.

Example for the application of the "Mark of Conformity":

0729
15

Number of the Notified Body responsible for the quality surveillance module.

Last two digits of the year in which the mark is affixed.

Drawing Schedule

Drawing No	Description
15-HS1253275-PDA	PRODUCT DESIGN ASSESSMENT
19833-2	IMANNA INC. CERTIFICATION TEST REPORT
19833-3	IMANNA INC. CERTIFICATION TEST REPORT
16437-1	IMANNA INC. CERTIFICATION TEST REPORT
16591.1	IMANNA INC. CERTIFICATION TEST REPORT
A3-06-2806	FINAL ASSEMBLY DRAWING
05/14	BROCHURE; FIREFLY PRO SERIES SOLAS AND WATERBUG SOLAS

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