

C Type Examination Certificate **Notified Body 2843**

This is to certify that ABS ITALY S.R.L. 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 schedule attached hereto.

MED/1.2c ITEM NUMBER

IMPLEMENTING REGULATIONS 2019/1397

15-1376231-2-EC CERTIFICATE NUMBER:

ACR Electronics Inc. MANUFACTURER:

Fort Lauderdale, Florida, USA MANUFACTURER'S LOCATION:

AUTHORIZED REPRESENTATIVE: Ocean Signal Ltd.

PRODUCT DESIGNATION

Position-indicating lights for life-saving appliances – for lifejackets

Model: Firefly Pro and Firefly Pro Waterbug (MS-2000 Series) - manually or water

activated

STANDARDS AND REGULATIONS:

European Union Marine Equipment Directive 2014/90/EU referencing testing

requirement of implementing regulation 2019/1397.

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; EN 60945:2002 incl. IEC 60945 Corr. 1 (2008).

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

28-sep-2020 EXPIRATION DATE: 17-nov-2024 ISSUE DATE:

ELECTRONICALLY

E. Brina SIGNED BY:

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of 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 period of validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on the market and on board vessels to which the amended regulations or standards apply

The "Mark of Conformity" may only be affixed to the above type approved 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 inspection agreement with a notified body.

The attached document schedule forms part of this Certificate.

This certificate remains valid unless suspended, expired or withdrawn, provided the conditions in the attached schedule are complied with.

ABS ITALY SRL - Attachment to Certificate No. 15-1376231-2-EC Page 2 of 3 Entry Date: 28-sep-2020 Name of Equipment Manufacturer: ACR Electronics. Inc. 5757 Ravenswood Road Fort Lauderdale Florida 33312 United States of America Tel: +1 954 981 3333 Fax: +1 954 983 5087 Email: Dan.Stankovic@acrartex.com Website: www.acrartex.com Manufacturer site: N/A Authorized representative: Ocean Signal Ltd. Melkbon 39 1602 JD Enkhuizen The Netherlands Tel: +31(0)6-12595598 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: For use with SOLAS approved marine lifejackets High intensity LED strobe light for use with marine Ratings: lifejackets Visibility: 1 mile (1.6 km) to 2 miles (3.2 km) Flash rate: 60 + 10 per minute Luminous intensity: not less than 0.75 cd Continuous operation: 8 hours minimum

European Union Marine Equipment Directive 2014/90/EU Standards:

referencing testing requirement of implementing

regulation 2019/1397

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/Limitations: The light has not been drop-tested with an immersion

suit. As such, the light is approved for use with

lifejackets only.

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Comments:

If there are any changes to the basic product or treatment procedure, final product needs to be retested and re-certified.

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 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.

A Manufacturer's Declaration of Conformity shall be compiled and distributed in line with the requirements of Directive 2014/90/EU Article 16.

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

Revisions:

Certificate N°. 15-1376231-2-EC, replaces Certificate N°. 15-HS1376231-EC Dated: 18-nov-2019

Drawing Schedule:

	D ' N	D	
	Drawing No	Description	
	19-HS1920478-PDA	PRODUCT DESIGN ASSESSMENT	