



# DET NORSKE VERITAS

## EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2008/67/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. **MED-B-5776**

This is to certify that the  
**Position indicating lights for lifejackets**

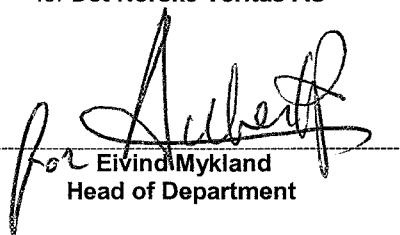
with type designation(s)  
**CFX-I, CFX-I-M, CFX-II and CFX-II-M**

Manufacturer  
**Electric Fuel Ltd.**  
BEIT SHEMESH, Israel

is found to comply with the requirements in the following Regulations/Standards:  
**Annex A.1, item No. A.1/1.2c and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/7, III/22, III/32, III/34 & X/3, LSA Code, 2000 HSC Code 8**

Further details of the equipment and conditions for certification are given overleaf.

Høvik, 2010-01-06  
for Det Norske Veritas AS

  
for Eivind Mykland  
Head of Department

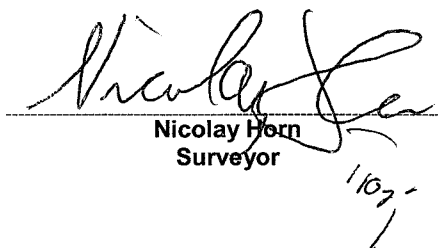


Notified Body No.: **0575**

DNV local office:  
**DNV Limassol**



This certificate is valid until  
**2014-12-31**

  
Nicolay Horn  
Surveyor  
1107



Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended. The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.



Certificate No.: MED-B-5776  
Item No.: A1/1.2c  
Job Id.: 344.1-001111-3

## Product description

Position-indicating lights for life jackets type CFX-I and CFX-II automatic water activated with manual OFF switch and CFX-I-M and CFX-II-M with manual ON/OFF switch.

## Technical data

Weight: 70 g  
Battery: Lithium battery 2 x 3V (CR 123A)  
Lamp: Xenon, 2.6 V, 0.6 A, Size T-1

Dimensions	CFX-I	CFX-I-M
Height:	68,4 mm	68,4 mm
Width:	35,3 mm	35,3 mm
Depth:	37,5 mm	37,5 mm

Dimensions	CFX-II	CFX-II-M
Height:	59,5 mm	59,5 mm
Width:	35,3 mm	35,3 mm
Depth:	34,7 mm	34,7 mm
Lamp unit:		
Height:	21,0 mm	21,0 mm
Diameter:	38,0 mm	38,0 mm

## Application/Limitation

Position-indicating lights for life jackets type CFX-I and CFX-II automatic water activated with manual OFF switch and CFX-I-M and CFX-II-M with manual ON/OFF switch.

Instructions from maker given in the lifejacket light instruction manual to be followed.

## Type Examination documentation

CFX-I technical constructions file no. PL 102 350, rev. H dated 07.12.2009  
CFX-II technical constructions file no. PL101 698, rev. O dated 07.12.2009  
CFX-I-M technical constructions file no. PL102 414, rev. E dated 07.12.2009  
CFX-II-M technical constructions file no. PL 102 413, rev. E dated 07.12.2009  
Imanna test report no. 16320-1, dated 05.12.2003  
Imanna test report no. 16320-2, dated 10.05.2004  
Imanna test report no. 16958-1, dated 03.10.2005  
Imanna test report no. 16958-2, dated 03.10.2005

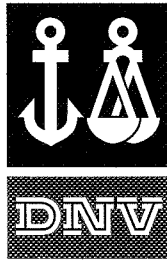
## Tests carried out

Tested in accordance with the requirements of IMO Resolution MSC.81 (70).  
Temperature cycling-, luminous intensity-, mould growth-, corrosion and seawater resistance-, solar radiation-, oil-resistance-, rain and water tightness-, fire-, chromaticity-, drop-, flashing rate-, switch arrangement-tests.

## Marking of product

The product is to be marked with manufacturers name, type designation, date of manufacture, date of expire and Mark of Conformity. The expiring date shall be marked in accordance with the LSA Code, item 1.2.3 as amended by IMO Res. MSC 48(66).





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### Mark of Conformity

The manufacturer is allowed to affix the Mark of Conformity according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and shall issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.

- Module D: The quality system for production and testing shall be approved by the Notified Body.
- Module E: The quality system for inspection and testing shall be approved by the Notified Body.
- Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a of Certificate Conformity.



*Handwritten signature and date: 11/03/09*