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# EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

[3] Certificate Number: **EPT 16 ATEX 2485 X** issue 0

[4] Equipment: **Safety Torch**

Series **FBSD**

[5] Manufacturer: **JIANGSU HUAYAN MARINE EQUIPMENT CO., LTD.**

[6] Address: No.8 Huangjintang West Road, Danyang Economic Development Zone, Jiangsu Province 213023 China

[7] This equipment and its accepted variations are specified in the annex to this Certificate.

[8] Eurofins Product Testing Italy S.r.l., Notified Body n. 0477 in accordance with Article 21 of the Directive 2014/34/EU of the European Parliament and of the Council of 26th February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II of the Directive.

The examination and test results are recorded in the confidential Report N° EPT.16.REL.01/54570

[9] Compliance with the essential health and safety is assured through the verification of them and by compliance with the standard:

**EN60079-0: 2012+A11: 2013; EN60079-11: 2012; EN 60079-28: 2015**

[10] If the sign "X" is placed after the Certificate number, it indicates that the equipment is subject to the special conditions for safe use specified in the annex to this Certificate.

[11] This EU -TYPE EXAMINATION CERTIFICATE relates only to the design, the exam and the tests of the specified equipment.

Further requirements of the Directive 2014/34/EU apply to the manufacture and supply of this equipment. These requirements are not object of this Certificate.

[12] The equipment shall include the sign  and the following string:

**II 2G Ex ib op is IIC T4 Gb IP67**

**Tamb: -20°C ~ +40°C**

Place and date of issue:

**Torino, 2016-07-26**



*Dionisio Bucchieri*

Dionisio Bucchieri  
Directive Responsible

*Paolo Trisoglio*

Paolo Trisoglio  
Managing Director



SGQ N° 133A  
PRD N° 119B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
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This Certificate has 4 pages and it is reproducible only in its entirety. Conditions of validity are reported below.

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**[15] Equipment description**

FBSD safety torch includes black lampshade and yellow enclosure, both of them are made of plastic PC+ABS. Two FBSD-R and FBSD PCBs are installed in the enclosure. The torch is powered by three 1.5V Energizer or Duracell alkaline cells in series, which are fixed by battery springs and has a LED light source. A red LED is installed on the FBSD-R PCB for battery indicator. A switch is installed in the end to control the torch.

**Routine tests**

N/A

**[16] Assessment Report n° EPT.16.REL.01/54570**

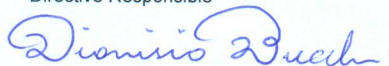
This EC-Type Examination Certificate is released after the positive result of the conformity assessment of the Council Directive 2014/34/EU and to harmonized technical standards listed in this certificate performed by the Notified Body Eurofins Product Testing Italy S.r.l., and reported in the Assessment Report above cited.

**[17] Special condition for a safe use**

Use only Energizer E91 AA LR6 AM3 1.5V alkaline or Duracell MN1500 AA LR6 1.5V alkaline battery.

**[18] Essential Health and Safety Requirements**

Assured by compliance with harmonized standards.

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**[19] Descriptive documents**

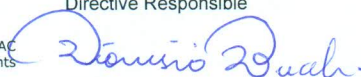
The equipment objects of this Certificate are described by the following documents. Scheduled documents are indicated with the symbol "✓". They cannot be modified without the explicit authorization of the Notified Body.

Document	Name	Rev.	Date	Scheduled
Assembly drawing	HWAYAN/FBSD-00(EC)	1.0	2012.08.13	✓
FBSD PCB	FBSD-13	1.0	2012.08.11	✓
FBSD-R PCB	FBSD-17	1.0	2012.08.11	✓
Nameplate	FBSD-21	1.0	2013.03.25	✓
Schematic diagram	FBSD-18	1.0	2013.02.25	✓
Connection wire	FBSD-20	1.0	2013.02.25	✓
LED specification	S-0003WPDW003	2.0	/	✓
Energizer E91 datasheet	EBC-1102J	/	/	✓
Duracell LR6 datasheet	/	/	/	✓
SPECIFICATIONS FOR HANGKE LAMP LED	HK-201108LEDQB	2.0	/	✓
BOM	FBSD- BOM	1.0	2013.06.15	✓
Operation instruction	/	1.0	2015.06.15	-
Alkaline-Manganese Dioxide Battery	MN1500	/	/	✓


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[20] **Terms and conditions**

The product liability rests with the Manufacturer, his representative or, in the absence of a representative, with the importer, in accordance with the General Product Safety Directive 2001/95/EC.

The following conditions may render this certificate invalid:

- changes in the design or construction of the product;
- changes or amendments to the Directive;
- changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the 2014/34/EU Directive.

[21] **History**

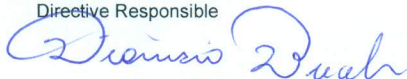
This certificate is at its first issue.



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End of Certificate