IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx CQM 16.0001X	Issue No: 0	Certificate history: Issue No. 0 (2016-04-08)
Status:	**Current**	Page 1 of 3	
Date of Issue:	**2016-04-08**		

Applicant: **Jiangsu Huayan Marine Equipment Co.,Ltd**
No.8 Huangjintang West Road Danyang Economic Development Zone
Jiangsu Province
213023
China

Electrical Apparatus: **Safety Torch Type FBSD**
Optional accessory:

Type of Protection: **Intrinsic safety "i", inherently safe optical radiation "op is"**

Marking:
Ex ib op is IIC T4 Gb

IP67

Approved for issue on behalf of the IECEx Certification Body: Ji Xiaodong

Position: General Manager

Signature:
(for printed version)

Date: 2016-04-08

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District,
Beijing City, Postal code: 100048
China

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Manufacturer: **Jiangsu Huayan Marine Equipment Co.,Ltd**
No.8 Huangjintang West Road Danyang Economic Development Zone Jiangsu Province 213023
China

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

CN/CQM/ExTR16.0003/00

Quality Assessment Report:

CN/CQM/QAR10.0005/02

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

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. An red LED is installed on the FBSD-R PCB for battery indicator. A switch is installed in the end to control the torch.

Rating

Rated voltage: U=4.5V
Maximum current: I=320mA

CONDITIONS OF CERTIFICATION: YES as shown below:

1. Use only Energizer E91 AA LR6 AM3 1.5V alkaline or Duracell MN1500 AA LR6 1.5V alkaline battery.
2. Do not open in hazardous area.