DNV·GL

Certificate No:
MEDB00003Z5

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Lifebuoys self-activating smoke signals

with type designation(s)
Lifebuoy self-activating smoke signal. HS-3

Issued to
Huahai Marine Signals Manufacturing Co., Ltd.
Haimen, 100, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2018/773,**
item No. MED/1.3. SOLAS 74 as amended, Regulation III/4, III/7, III/34 & X/3, LSA Code and 2000 HSC Code 8

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

This Certificate is valid until **2023-09-10**.

Issued at **Hamburg** on **2018-09-11**

DNV GL local station:
Nantong

Approval Engineer:
Didier Girardin

Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudszus
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004.

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-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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Product description

"HS-3"

lifebuoy self activating smoke signal producing orange smoke for at least 15 minutes. Tested with drop height 45 m.

Design weight: 1.8 kg

Application/Limitation

The design assessment is based on IMO Res. MSC.48(66).

Production and installation testing shall be carried out according to IMO Res. MSC.81(70), Part 2, Ch.4.

Acceptable lifetime: 3 years

Type Examination documentation

Tests carried out

Tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC.81(70) Part 1, as amended by IMO Res. MSC.200(80), MSC.218(82), MSC.226(82), and IMO Res. MSC.323(89).

Marking of product

According to Article 10 of the Council Directive (MED) and including information required by the LSA Code § 1.2.2.9 and 1.2.3
Manufacturer name and address
Type Identification
Date of manufacture and date of expiry
Operational restrictions
Mark of Conformity "wheelmark".

The product should be provided with brief instructions or diagrams clearly illustrating the use printed on the casing.