EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00001BU

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment (MED) as amended by directive (EU) 2015/559. This Certificate is issued by DNV GL SE based on the notification of the German Federal Ministry of Transport, Building and Urban Development.

This is to certify:

That the Alarm devices - Sounders
with type designation(s)
A105N, A112N, BExS110D
Issued to

European Safety Systems Ltd.

London LO, United Kingdom
is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/3.53 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation II-2/7 & X/3, 1994 HSC Code 7, 2000 HSC Code 7, FSS Code 9 and IMO MSC.1/Circ.1242
Further details of the equipment and conditions for certification are given overleaf.
This Certificate is valid until **2021-08-18**.

Issued at **Hamburg** on **2016-08-19**

Notified Body
No.: **0098**

DNV GL local station:
Southampton
Approval Engineer:
Heinz Scheffler

for **DNV GL SE**

Sven Dudszus
Head of Notified Body

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 Council Directive 96/98/EC, as amended.
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.
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

A105N
Multitone sounder: 32 alarm tones, 3 stages
Power supply: 24V DC
Current consumption: 25mA
Degree of protection: IP66
A112N
Multitone sounder: 45 alarm tones, 3 stages
Power supply: 24V DC
Current consumption: 200mA
Degree of protection: IP66
BExS110D
Multitone sounder (flameproof): 32 alarm tones, 3 stages
Power supply: 24V DC
Current consumption: 265mA
Degree of protection: IP66

Type Examination documentation

Test Reports of Intertek:
No. 11051075, No. EM11051075(a), EM11051075(b), EM11051075(d),
Addendum to No. EM11051075(d) Issue 1, No. 11051075A
Test Reports of VdS:
No. BMA 05119, No. SW-2005214, No. BMA 07080, No. BMA 06016
Drawings (A105A):
No. CD 2270(A), No. CL 2270-24DC(A), No. PL 2270(A),
No. D 2270(A), No. D 2271(A), No. D2250(A)
Drawings (A112N):
No. CD 4770(A), No. D 4770(A), No. D 4771(A), No. CL 4470-24(A),
No. PL 4770(A), No. D4750(A)
Drawings (BExS110D):
No. CD 2411MED, No. D 2444-03CPD(A), No. PL2444-03CPD(A), No. CL 2411MED(A), No. AAL0016(A)
Installation Instructions:
A105N, A112N
Instruction Manual:
BExS110D

Tests carried out

Relevant tests according to testing standards:

- EN 54-3:2014
- IEC 60092-504:2001/Corr.1:2011
- IEC 60533:2015

Marking of product

The products to be marked with:

- model name
- manufacturer name
- serial number
- wheel mark + 0098/Year of production YY