

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No: MEDB000074G

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify: That the Fire alarm devices - Sounders

with type designation(s) AlertAlarm & AlertAlight acoustical alarms

Issued to European Safety Systems Ltd. London, LO, United Kingdom

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2020/1170,

item No. MED/3.53. SOLAS 74 as amended, Regulation II-2/7 & X/3, 1994 HSC Code 7, 2000 HSC Code 7, FSS Code 9, IMO MSC.1/Circ.1242 and IMO MSC.1/Circ.1487

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

This Certificate is valid until 2026-04-12.

Issued at Høvik on 2021-04-13

DNV local station: Manchester

Approval Engineer: Nils Jarem



Notified Body No.: 0575 for DNV AS

Roald Vårheim 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 Directive 2014/90/EU. This certificate is valid for equipment which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved type.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.





Product description

The AlertAlarm & AlertAlight family consist of acoustical components in different performance classes. Type B Sounders intended for outdoor application also more suitable for indoor situations where high temperature and/or humidity are present.

AlertAlarm: Alarm Horn Sounder devices: Item Number: [a] [volt] [bemsvv] [x]

[a]	A105N A112N A121	Product Type A105N: Alarm Horn Sounder A112N: Alarm Horn Sounder A121: Alarm Horn Sounder		
[volt]	DC024 DC024 AC230 AC230	Voltage Range 10-60Vdc 11.5-54Vdc 24-260Vac 50/60Hz & 60-260Vdc 100-240Vac 50/60Hz	(A105N) (A112N & A121) (A105N) (A112N & A121)	
[bemsv	/] [b] [e] [m] [s] [vv]	General Product Identifiers mounting options optional entry positions and size optional entry plug/adaptor material optional duty label/equipment tags optional configuration and approval version		
[x]	R G S	Enclosure Colour Red Grey Special alternative colour		
AlertAlight: Combined devices: Item Number: [a] [volt] [bemsvv] [x] [y]				
[a]	AL105NX AL112NX AL121X	Product Type AL105NX: Combined Xenon Strobe Beacon (AL112NX: Combined Xenon Strobe Beacon (AL121X: Combined Xenon Strobe Beacon (with Alarm Horn Sounder	
[volt]	DC024 DC048 AC115 AC230	Voltage Range 20-28Vdc 42-52Vdc 103.5-126.5Vac 50/60Hz 207-240Vac 50/60Hz		
[bemsv]		General Product Identifiers		

[bemsv]	General Product Identifiers	
[b]	mounting options	
[e]	optional entry positions and size	
[m]	optional entry plug/adaptor material	
[s]	optional duty label/equipment tags	
[vv]	optional configuration and approval version	
[x]	Enclosure Colour	
R	Red	
G	Grey	
S	Special alternative colour	



[y]		Signal Colour
	А	Amber
	В	Blue
	С	Clear
	G	Green
	Μ	Magenta
	R	Red
	Y	Yellow

Application/Limitation

The equipment is found to comply with the following location/application dependent requirements (for definition of each of the location classes, see below the table):

Product	Temperature	Vibration	EMC	Enclosure
A105N	D	A	A	IP66
AL105NX				Salt Mist
A112N	D	A	В	IP56 Salt Mist
AL112NX				
A121				
AL121X				

Definition of the location classes with reference to relevant standards:

Temperature D:	Location (-25°C to +70°C) (ref. IEC 60092-504:2016) table 1 item 6-7)
Vibration A:	General applications (±1mm / 0.7g) (ref. IEC 60092-504:2016 table 1 item 10)
EMC A:	General power distribution zone (ref. IEC 60092-504:2016 table 1 item 13-20)
EMC B:	Bridge and open deck zone (ref. IEC 60092-504:2016 table 1 item 13-20)

Type Examination documentation

Tests carried out

The relevant tests have been carried out according to the following standards:

- IEC 60092-504:2016
- IEC 60533:2015
- EN 54-3:2014 incl. A1:2019

Marking of product

For identification to this type examination certificate the products shall be marked with:

- Manufacturer's name or trademark
- Type designation
- Mark of Conformity (wheel mark), followed by
 - identification number of the NoBo involved in production control (MED D)
 - the year the mark is affixed.
 - Example: 0575/2021