

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB000074G**  
Revision No:  
**3**

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) 2023/1667,  
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

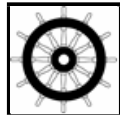
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-04-12**.

Issued at **Høvik** on **2024-05-16**

DNV local station:  
**UK & Ireland CMC & VMC**

Approval Engineer:  
**Frode Nygård**



Notified Body  
No.: **0575**

for **DNV AS**

**Mydlak-Röder, Christine**  
**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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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]

<b>[a]</b>		<b>Product Type</b>	
	A100	A100	Alarm Horn Sounder
	A105N	A105N	Alarm Horn Sounder
	A112N	A112N	Alarm Horn Sounder
	A121	A121	Alarm Horn Sounder
<b>[volt]</b>		<b>Voltage Range</b>	
	DC024	10-60Vdc	(A105N, A100)
	DC024	11.5-54Vdc	(A112N & A121)
	AC230	24-260Vac 50/60Hz & 60-260Vdc	(A105N, A100)
	AC230	100-240Vac 50/60Hz	(A112N & A121)
<b>[bemsvv]</b>		<b>General Product Identifiers</b>	
	[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	
<b>[x]</b>		<b>Enclosure Colour</b>	
	R	Red	
	G	Grey	
	S	Special alternative colour	

### AlertAlight: Combined devices: Item Number: [a] [volt] [bemsvv] [x] [y]

<b>[a]</b>		<b>Product Type</b>	
	AL105NX	AL105NX	Combined Xenon Strobe Beacon with Alarm Horn Sounder
	AL112NX	AL112NX	Combined Xenon Strobe Beacon with Alarm Horn Sounder
	AL121X	AL121X	Combined Xenon Strobe Beacon with Alarm Horn Sounder
	AL100X	AL100X	Combined Xenon Strobe Beacon with Alarm Horn Sounder
<b>[volt]</b>		<b>Voltage Range</b>	
	DC024	20-28Vdc	(AL105NX, AL112NX, AL121X, AL100X)
	DC048	42-54Vdc	(AL105NX, AL112NX, AL121X, AL100X)
	AC115	115Vac 50/60Hz ±10%	(AL105NX, AL112NX, AL121X, AL100X)
	AC230	230Vac 50/60Hz ±10%	(AL105NX, AL112NX, AL121X, AL100X)
<b>[bemsvv]</b>		<b>General Product Identifiers</b>	
	[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	
<b>[x]</b>		<b>Enclosure Colour</b>	
	R	Red	
	G	Grey	
	S	Special alternative colour	

[y]		Signal Colour
	A	Amber
	B	Blue
	C	Clear
	G	Green
	M	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
A100	D	A	A	IP66 Salt Mist
AL100X				
A105N				
AL105NX				
A112N	D	A	B	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

Applicable tests according to:

- 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: 0575/2024