



TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB000074G
Revision No:
0

This Certificate is issued by DNV UK Limited based on authorisation of the Maritime & Coast Guard Agency (MCA) as an UK Approved Body to undertake conformity assessments on marine equipment in accordance with the requirements of the Merchant Shipping (Marine Equipment) Regulations 2016 as amended.

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, United Kingdom

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 8,**
item No. UK/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 **2029-06-03**.

Issued at **London** on **2024-06-04**

DNV local unit:
UK & Ireland CMC & VMC



for **DNV UK Ltd.**

Approval Engineer:
Frode Nygård

Approved Body No.: **0097**

Mydlak-Röder, Christine
MER Service Responsible



**Maritime &
Coastguard
Agency**

UK Approved Body Authorised
by the MCA

This certificate will not be valid if the manufacturer makes any changes or modifications to the approved type of equipment, which have not been notified to, and agreed with the approved body named on this certificate.
During the period of validity of this certificate the applicable regulations (international conventions and the relevant resolutions and circulars of the IMO) and testing standards may change, therefore the product conformity may need to be re-assessed by the Approved 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-control phase module (D, E or F) of Schedule 2 of the Merchant Shipping (Marine Equipment) Regulations 2016, as amended is fully complied with and controlled by a written inspection agreement with an approved body. In case limitations of use apply, these should be indicated in the Annex.

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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] [bemsbv] [x]

[a]		Product Type	
	A100	A100	Alarm Horn Sounder
	A105N	A105N	Alarm Horn Sounder
	A112N	A112N	Alarm Horn Sounder
	A121	A121	Alarm Horn Sounder
[volt]		Voltage Range	
	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)
[bemsbv]		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	

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

[a]		Product Type	
	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
[volt]		Voltage Range	
	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)
[bemsbv]		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
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 (UK Conformity Mark), followed by
 - identification number of the Approved body involved in production control (MER D)
 - the year the mark is affixed
 - Example: 0097/2024