

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:  
**MEDB00001EH**  
Revision No:  
**2**

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)

**Audio and Audio Visual Warning Signals: SONF1, SONFL1X**

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**

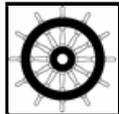
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-02-28**.

Issued at **Høvik** on **2021-04-12**

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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

SONFL1XDC024 Alarm Horn & Xenon Strobe Beacon:

The SONFL1X features the 100dB(A) SONF1 alarm horn sounder combined with the L101X Xenon strobe beacon. The 5 Joule Xenon strobe generates over 200 candelas of light output. DC versions have multiple flash rates selectable during installation. Sounder & beacon may be connected from a single supply for simultaneous operation or from separate supplies for independent operation.

SONF1DC024 sounder (type B)

The SONF1 is a compact, high output, 100dB(A) alarm sounder. Low current consumption and high SPL in a robust fire retardant housing ensure the SONF1 is suitable for all general signalling applications including fire, security and process control.

Supply Voltages: 24V DC/AC

## 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):

MODEL	TEMPERATURE	VIBRATION	EMC	ENCLOSURE (IP)
SONFL1XDC024	TEM-C	VIB-A	EMC-A	IP33C
SONF1DC024				

Definition of the location classes with reference to relevant standards:

Temperature: TEM-C Location (-25°C/+55°C) (ref. IEC 60092-504:2016 table 1 item 6-7)  
 Vibration: VIB-A For general applications. (ref. IEC 60092-504:2016 table 1 item 10)  
 EMC: EMC-A General power distribution zone (ref. IEC 60092-504:2016 table 1 item 13-20)

## Type Examination documentation

### Tests carried out

- IEC 60092-504:2016
- IEC 60533:2015
- EN 54-3:2014
- (Additional tests for lights: EN 54-23:2010)

### 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