DNV·GL

Certificate No:
TAA00001J5

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Sound Signal Appliances (Whistle/ Bell & Gong)

with type designation(s)
129 052 55, 129 052 67, 129 052 68

Issued to
WERMA Signaltechnik GmbH + Co. KG
Rietheim-Weilheim, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Temperature	**D**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**C / IP67**

Issued at **Hamburg** on **2018-01-31**
This Certificate is valid until **2022-11-26**.
DNV GL local station: **Augsburg**

Approval Engineer: **Holger Jansen**

for **DNV GL**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

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Product description

Multi-tone sounder 31tne
Types: 129 052 55; 129 052 67, 129 052 68

Power supply:	24Vdc (type 129 052 55) 115Vac (type 129 052 67) 230Vac (type 129 052 68)
Sound level at 1m distance:	110 dB(A)
Signals:	31 different warning and emergency signals
Duty cycle:	100%
Material of housing:	GD-AI Si12 Cu
Degree of protection:	IP 67
Software version:	30007-200 SW-P, dtd. 12.11.2002

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Tests carried out

Applicable test according to Class Guideline DNVGL-CG-0339, Nov. 2016

Marking of product

The products to be marked with:

- Manufacturer name
- Model name
- Production order number
- Power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer’s product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE