



TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MERB00003KT
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 Compass Bearing Device

with type designation(s)
180, 160, Thomson, Sea, 175

Issued to

Cassens & Plath GmbH
Bremerhaven, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **MSN 1874 Amendment 9**,
item No. UK/4.54. SOLAS 74 as amended, Regulations V/18 & V/19

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

This Certificate is valid until **2027-12-21**.

Issued at **London** on **2024-10-28**

DNV local unit:
Hamburg – CMC North/East



for **DNV UK Ltd.**

Approval Engineer:
Jörg Rebel

Approved Body No.: **0097**

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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.

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 compass bearing device consists of following components necessary for operation:

- | | |
|--|----------------|
| 1. Vane type azimuth device for bearing compass Type/11 and Type/12 with black mirror for relative & compass bearings | 180 |
| 2. Vane type azimuth device for bearing compass Type/21 with black mirror for relative & compass bearings | 160 |
| 3. Thomson (prism) type azimuth device for bearing compass Type/11 and Type/12 with 2 shades glasses for relative & compass bearings | THOMSON
SEA |
| 4. Pelorus with gimbal suspension | |
| 5. Vane type azimuth device for compass SR4 with black mirror for compass bearings | 175 |

Application/Limitation

None

Type Examination documentation

Tests carried out

- Performance testing: ISO 25862 (2019)
- Environmental testing: IEC 60945 (2002) incl. Corrigendum 1 (2008)

Marking of product

According to IEC 60945, Sect.4.9:

The product to be marked with following information, where practicable:

- Identification of the manufacturer,
- Equipment type number or model identification under which it was type tested,
- Serial number of the unit,
- Compass safe distance.

Alternatively, the marking may be presented on a display at equipment start-up, and in case of fixed equipment compass safe distance may be given in the equipment manual.

END OF CERTIFICATE