

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Enclosure for Electrical Equipment

with type designation(s)

Empty Enclosures Type 34.xx xx xx and RMS R3/R4 xxxxxxxxx, Junction and Control Box Type 35.xx xx xx, Junction and Control Box Type 36.xx xx xx and RMS R5/R6.xxxxxxxx

Issued to

ROSE Systemtechnik GmbH
Porta Westfalica, Germany

is found to comply with

DNV 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.

Type	Degree of protection	Vibration class
Empty Enclosures Type 34.xx xx xx and RMS R3/R4 xxxxxxxxx	C	A
Junction and Control Box Type 35.xx xx xx	C	A
Junction and Control Box Type 36.xx xx xx and RMS R5/R6.xxxxxxxx	C	A

Issued at **Hamburg** on **2022-01-20**

This Certificate is valid until **2027-01-19**.

for **DNV**

DNV local station: **Essen**

Approval Engineer: **Maik Gagern**

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Arne Schaarmann
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.

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*

Stainless Steel Empty Enclosure

Type 34.xx xx xx

Type RMS R3 xxxxxxxxx

Ex Marking: Ex eb IIC Gb

Ex tb IIIC Db

Stainless Steel Connection and Junction and Control Box

Type 35.xx xx xx

Type 36.xx xx xx

Box equipped with terminals. Connections to be executed by means of suitable Ex type cable glands.

Ex Marking: Ex db eb [ia] mb IIC T6...T4 Gb

Ex tb IIIC T85°C...T135°C Db

Application/Limitation

Makers instructions and special conditions for safe use to be observed.

*Note: All details about electrical explosion protection mentioned in this certificate are for information only. For relevant binding information the corresponding Certificate of Conformity with regard to electrical explosion protection, issued by a recognised Authority, shall be observed.

Type Approval documentation

Tests carried out

IEC 60079-7: 2017 and IEC 60079-31: 2013 acc. to IECEx PTB 07.0059U and IECEx PTB 07.0060X

Marking of product

Maker, Enclosure Type, Certificate No. and Protection (ATEX and/or IECEx Certificate)

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and 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