

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electrical Equipment

with type designation(s)
Busan Series Power Receptacles of certified safe-type*

Issued to

Karl Dose GmbH
Hamburg, 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

Issued at **Hamburg** on **2020-12-01**

This Certificate is valid until **2025-11-30**.

DNV GL local station: **Hamburg**

for **DNV GL**

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.



Product description

Busan Series Power Receptacles of certified safe Type

Types:

516/L, 516/R, 516/D, 516/St

Technical data for all types:

Rated Voltage: 4h - max. 130 V, 6h - max. 240 V

Protection class: IP 56

Ex – protection*: EEx de IICT6 according to PTB - certificate PTB ATEX 1050X

Application/Limitation

Operating instruction of the manufacturer as well as special conditions for safe use acc. to the certificate PTB ATEX 1050X shall 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

DNV GL Class Guideline DNVGL-CG-0339, Edition Dec. 2016

Marking of product

Maker's trademark

Type designation

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