DNV·GL

Certificate No:
TAE00003VE

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electrical Equipment

with type designation(s)
Rotary Switch, Ex-protected, Brass, Junction Box, Ex-protected, Brass

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.

Type	Temperature	Humidity	Vibration
Rotary Switch, Ex-protected, Brass	**D**	**B**	**A**
Junction Box, Ex-protected, Brass	**D**	**B**	**A**

Issued at **Hamburg** on **2020-12-01**
This Certificate is valid until **2025-11-30**.
DNV GL local station: **Hamburg**

Approval Engineer: **Maik Gagern**

for **DNV GL**

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.

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Product description

Product series SINGAPUR

Rotary switch, 2-pole:

Rated voltage:	660 V
Rated current:	16 A (AC 1)
Cross-section:	2,5 mm² max.
Degree of protection:	IP56
Degree of Ex-protection*:	EEx de IIC T6 as per certificate PTB 03 ATEX 1044X

Junction box, 4-pole:

Rated voltage:	500 V
Cross-section:	3x2,5 mm² or 2x4 mm²
Degree of protection:	IP56
Degree of Ex-protection*:	EEx e II T6 as per certificate PTB 03 ATEX 1043X

Application/Limitation

Makers instructions and conditions of the referred EC Type Examination Certificates of Conformity have 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

DNV GL Class Guideline DNVGL-CG-0339, Edition Dec. 2016
IEC 60529:2001

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