



Lloyd's  
Register

# Type Approval Certificate

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.*

This certificate is issued to:

|                         |   |
|-------------------------|---|
| <b>PRODUCER</b>         | Barksdale GmbH<br>Dorn-Assenheimer Str. 27<br>61203 Reichelsheim<br>Germany   |
| <b>DESCRIPTION</b>      | Magnetic rotor level indicator and accessories  |
| <b>TYPE</b>             | BNA-S22-S<br>BNA-S32/S36-S<br>GK03 - limit switch<br>XT, XM - indicator<br>XTi, XMi - indicator (Ex-version)  |
| <b>APPLICATION</b>      | Marine, offshore and industrial applications for use in environmental categories ENV1 and ENV2 as defined in LR Type Approval System, Test Specification Number 1 – 2002. |
| <b>ADDITIONAL TESTS</b> | Dry heat test (+70 °C/2 hrs)<br>Low temperature test (0 °C/2 hrs)   |
| <b>STANDARD</b>         | Manufacturer's specification  |
| <b>RATINGS</b>          | GK03 max. switching capacity: 230V AC/DC<br>1.0A / 60VA/W<br>XT, XTi Power supply: 24 Vdc<br>Output: 4-20 mA<br>Load (Ohm): max. 700 at 24V                               |
| <b>Certificate No.</b>  | 08/20038 (E2)   |
| <b>Issue Date</b>       | 10 September 2018   |
| <b>Expiry Date</b>      | 04 August 2023  |
| <b>Sheet</b>            | 1 of 2  |

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LR031.1.2013.12

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**OTHER CONDITIONS**

Maximum length for BNA-S22-S l=1000mm and for BNA-S32/S36-S l=1500mm without support.  
Ratings for application in hazardous areas are to be obtained from the applicable Ex Certificate.

*The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.*

*The Design Appraisal Document No. HTS/ETS 37336-18 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

|                        |                   |
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