



Marine & Offshore

Certificate number: 50018/B1 BV

File number: AP4756

Product code: 3891H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to

Barksdale GmbH
Reichelsheim - GERMANY

for the type of product

PRESSURE TRANSMITTERS / TRANSDUCERS
BPS3000 and BDS3000 series

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 23

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 11 Jan 2028

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 04 Dec 2024,

Dirk Hoepfner

This certificate was created electronically and is valid without signature



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

The electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=tcamyg8tot>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **BPS3000** series are pressure switches/transmitters, the **BDS3000** series are differential pressure switches/transmitters.

Main data:

Pressure range: BPS3000: 0 ... 0.2bar to 0 ... 600bar
 BDS3000: 0 ... 0.35bar to 0 ... 35bar

Power supply: 24V DC

Display: LED, 4-digit

Outputs: 4 ... 20mA or 0 ... 10V with 1 or 2 switch points

Software version: 3.x

Sensor element: Piezoresistive, Ceramic

Process connections: BPS3000: G1/4", 1/4"NPT, G1/2", 1/2"NPT, 7/16-20 UNF (SAE, JIC)
 BDS3000: G1/4", 1/4"NPT, Flange versions: straight, lateral

Electrical connection: Plug M12

Housing material: Stainless steel

Degree of protection: IP65, IP67

2. DOCUMENTS AND DRAWINGS:

- 922-1434 Rev. G dated 29.09.16

For A1 version:

- Operating instruction: 923-1966 Index J dated 03-23-2020

For B1 version:

- Data sheet: 923-2733 Index: A; Data sheet: 923-1968 Index: M

- Operating instruction: 923-2731 Index A dated 19.May 2020

- 923-2959 dated 14.11.24; 923-2960 dated 14.11.24

3. TEST REPORTS:

- BFSV: 2818/17 dated 4 Dec 2017; 2598/17 dated 3 Aug 2017

- ServiceForce.Com: SFC_111_13E dated 2013/10/08

- TÜV NORD CERT: 17078-2-R00 dated Dec. 14, 2017

- RST: P50-17-0445_1 dated 01.08.2017, P50-17-0671_1 dated 20.10.2017

For A1 version:

- TÜV NORD CERT: 21122-1-R00 dated Jan. 11, 2022

For B1 version:

- IABG: TP-TR50-13397 dated 22-Jul-2024

4. APPLICATION/LIMITATION:

4.1 - Bureau Veritas Rules for the Classification of Steel Ships

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS**

4.3 - Bureau Veritas Environmental Category: **EC Code: 23**

4.4 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev8.

4.5 - Bureau Veritas System Category **I** applied for monitoring function for informational/administrative tasks.

4.6 - For the use as pressure switch/transmitter or differential pressure switches/transmitter only and the local display is excluded from certification.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned products are to be supplied by **Barksdale GmbH** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Barksdale GmbH** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

5.4 - For information, **Barksdale GmbH** has declared to Bureau Veritas the following production site:

Barksdale GmbH
Dorn-Assenheimer Str. 27
61203 - Reichelsheim
GERMANY

6. MARKING OF PRODUCT:

- Maker's name or trademark
- Equipment type and model identification
- Date of manufacture and/or serial number

7. OTHERS:

7.1 - It is the responsibility of **Barksdale GmbH - GERMANY** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 50018/B0 BV issued on 11 Jan 2023 by the Society.

*** END OF CERTIFICATE ***