



Marine & Offshore

Certificate number: 50018/A0 BV

File number: AP4756

Product code: 3843H

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

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Barksdale GmbH
Reichelsheim - GERMANY

for the type of product

PRESSURE SWITCH
BPS3000 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: 08 Jan 2023

For Bureau Veritas Marine & Offshore,

At BV HAMBURG, on 08 Jan 2018,

Dirk Hoepfner



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.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **BPS3000** series are pressure switches/transmitter with electronic display unit.

Main data:

Pressure range: 0 ... 0.2bar to 0 ... 600bar
 Power supply: 24V DC
 Display: LED, 4-digit
 Switching outputs: 2x Relay, 2x Solid state
 Analog output: 4 ... 20mA, 0 ... 10V DC
 Software version: 1.x
 Sensor element: Piezoresistive, Ceramic
 Process connections: G1/4", 1/4"NPT, G1/2", 1/2"NPT, 7/16-20 UNF (SAE, JIC)
 Electrical connection: Plug M12
 Housing material: Stainless steel
 Degree of protection: IP65, IP67

2. DOCUMENTS AND DRAWINGS:

- Data sheets: 923-1968 Index: F
 - 922-1434 Rev. G dated 29.09.16

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

4. APPLICATION/LIMITATION:

4.1 - Bureau Veritas Rules and Regulations 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 - Bureau Veritas System Category **I** applied for monitoring function for informational/administrative tasks.

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.

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GERMANY

5.4 - Each equipment is to be supplied with manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT:

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

7. OTHERS:

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.

*** END OF CERTIFICATE ***