

MARINE DIVISION

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Certificate number: 07176/C0 BV

File number : AP 2990

Product code : 3741H

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

TYPE APPROVAL CERTIFICATE

as per Bureau Veritas Classification Rules

This certificate is issued to

Barksdale GmbH
Reichelsheim - GERMANY

for the type of product

LEVEL TRANSMITTERS

Level Switches
Type: UNS.. series

Regulations and standards :

BUREAU VERITAS Rules for the Classification of Steel Ships.

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.

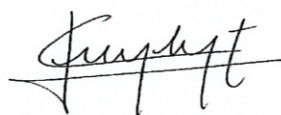
This certificate is valid until : 13 Aug 2013

At Paris la Défense, on : 13 Aug 2008

For BUREAU VERITAS,
By order of the Secretary

Approval office

Local office : BV HAMBURG
Surveyor : D. Hoepfner


L.COURREGELONGUE



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. 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 Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS 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 SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Level Sensors - Magnetic Level Switches comprising:

Series	Type	Remarks
Multi Level	UNS -1000-S-VA(-MS)/xx	Brackets spacing: 500 mm max. IP67
	UNS-2000(-2100-Ex)-S-VA/xx	Max. length 1500 mm with protection tube or 1000 mm without protection tube Guide tubes longer than 1500 mm (1000 mm) to be fixed by an additional holder The distance between fixing points must not exceed 2500 mm (2000 mm) 2100-Ex: EEx ia IIC T6 (ISSEP Certificate) IP67
Bilge Float	UNS-S-VA(-MS)/xx	Bilge Float UNS-S-VA/SBx-VA52/xx(-UAD-LSB), Bilge Guards Reed contact rating n/o, n/c: 250 V AC/DC, 3 A, 100 VA/W 230 V AC/DC, 2 A, 40 VA/W Bilge Guard Reed contact rating c/o: 250 V AC/DC, 1 A, 60 VA/W
	UNS90-S-VA/xx	
Bilge Guard	UNS-S-VA/xx	Degree of Protection:
	UNS-VA/SB _y	UNS-S- IP54
	UNS-S-VA/SB _y	Other IP67

xx = Mechanical mounting, Electrical connection, Float type, etc...

y = 4 or 5

2. DOCUMENTS AND DRAWINGS :

Barksdale:

- Specification UNIMESS Version 01.1997.
- UNIMESS design drawing.
- Level Switches, documentation 12/04 UNS US 04/1

3. TEST REPORTS :

RMS: Test Report No. 8-09/95 dated 05 October 1995.

PTB: Ex Certificate PTB Nr. Ex-95.D.2010 dated 02.02.1995.

ISSEP: EC Type Examination Certificate No. ISSEP03ATEX119X dated 23.10.2003 and Variations 1 & 2.

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: 31**

5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - The UNS Level Switches are to be manufactured, examined and tested by **Barksdale GmbH** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **Barksdale GmbH** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - **Barksdale GmbH** has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production site:

**Barksdale GmbH
Dorn-Assenheimer Strasse 27
D - 61203 Reichelsheim
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 trade mark,
- Serial number of the units
- Equipment type number or model identification under which it was type-tested
- Ex marking as relevant.

7. OTHERS :

7.1 - This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that:

**Barksdale GmbH
Dorn-Assenheimer Strasse 27
D - 61203 Reichelsheim
GERMANY**

will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 07176/B0 BV issued on 13/05/2002 by the Society.

***** END OF CERTIFICATE *****