



Marine & Offshore
Division

Certificate number: 48923/A0 BV

File number: AP4744

Product code: 3840H

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

UAD Service + Vertriebs UG (hb)

Rostock - GERMANY

for the type of product

LEVEL SWITCH

Magnetic Level Switch - LSA serie

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 31

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 mentioned above.

This certificate will expire on: 15 Mar 2022

For BUREAU VERITAS,

At BV HAMBURG, on 15 Mar 2017,

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. 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 Division 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 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 October 2014

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

Float operated magnetic level switch intended for the use in bilge and ballast tanks.

LSA1:	with test button without cable
LSA2:	with test button with cable*
LSA3:	without test button without cable
LSA4:	without test button with cable*

- with or without -g version (bended linkage of max 700mm length)

- with or without -Exd version.

- with or without protection bellow(SB1,SB2)

* Cables to be type approved

Main characteristic:

Contact rating: 250VAC or 24V DC

Housing material: RG5 or RG10

Degree of protection: IPX8 (11mm)

2. DOCUMENTS AND DRAWINGS :

- User manual dated 08/08

- D43R-S1AA dated 20.05.2014; TS-D4-00002-Rev_01 dated 2014,september 08

3. TEST REPORTS :

- **W + Z Mess- u. Prüftechnik GmbH:**

- L534 dated 21.11.2013; L1251B dated 30.09.2009

- L1237 dated 30.09.2003; L1334 dated 10.02.2004; L965 dated 12.06.02

- **IBEXU Institut für Sicherheitstechnik GmbH:**

- IBExU16ATEXKB01 dated 2016-12-05; IBExU13ATEX1069X dated 28 November 2013

- IP test dated 25.04.2002 tested at Kvaerner Warnow Werft GmbH.

4. APPLICATION / LIMITATION :

4.1 - Bureau Veritas Rules and Regulations for 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 above mentioned Level Switch are to be supplied by **UAD Service + Vertriebes UG** 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 - **UAD Service + Vertriebes UG** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

UAD Service + Vertriebes UG

Alter Hafen Nord 216

D-18069 Rostock

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

6. MARKING OF PRODUCT :

- Maker's name or trademark

- Equipment type or model identification

- Date of manufacture and/or serial number

- Ex Marking as Relevant

7. OTHERS :

7.1 - It is **UAD Service + Vertriebes UG** responsibility 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 ***