



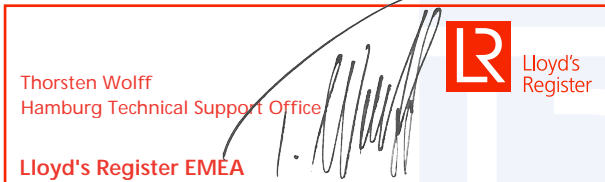
Type Approval Certificate

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 supersedes certificate number 03/20087 (E3) issued on 18.06.2014 which is hereby cancelled.

This certificate is issued to:

PRODUCER	UAD Service + Vertriebs UG (hb) Alter Hafen Nord 216 18069 Rostock Germany
DESCRIPTION	Magnet Level switch
TYPES	UAD LSA① ①: Type of Level Switch: 1, 2, 3, 4 UAD LSA①-② ①: Type of Level Switch: 1, 2, 3, 4 ②: Bend Float Unit: g or Protection Bellow: SB1 or SB2 or ATEX Approval: Ex d UAD LSA①-②-③ ①: Type of Level Switch: 1, 2, 3, 4 ②: Bend Float Unit: g or Protection Bellow: SB1 or SB2 ③: ATEX Approval: Ex d LSB
Certificate No.	03/20087 (E4)
Issue Date	23 October 2018
Expiry Date	22 October 2023
Sheet	1 of 3



Thorsten Wolff
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APPLICATION Marine, offshore and industrial applications for use in environmental categories ENV1 and ENV2, as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2002.

ADDITIONAL TESTS Enclosure test IP X8 (11m)
For LSA 1: Shock test (500m/s² and 1000m/s² / half-sine / 6ms)

RATINGS UAD LSA:
Material housing: RG5 or RG10
Material number of oval floating ball 65x120mm: 1.4571
Rated pressure: 42 bar

Switch: micro switch Cherry, Type D43x, D44x, D45x with changeover contact
Contact rating: D43x: 250VAC / max. 6A, 2A at motor load
D44x: 250VAC / max. 10A, 3A at motor load
D45x: 250VAC / max. 16A, 7A at motor load

LSB:
Material housing: 1.4571
Material floating ball: Buna N
Rated pressure floating ball: 3 bar
Switch type: Günther 1915 with changeover contact
Contact rating: switching max. 250V AC, 1.0A, 100VA

STANDARD Manufacturer's specification

OTHER CONDITIONS Ex-Certification for Magnet Level Switches Type LSA...-Exd
Certificate Number IBExU13ATEX1069 X
IBExU16ATEXKB01
Certified EX II 2G Ex d IIC T6 Gb

Ratings and conditions for application in hazardous areas are to be obtained from the applicable Ex-Certificate.

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Sheet 2 of 3

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LR031.1.2013.12

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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 37458-18 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Sheet 3 of 3

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