

[1] **EC-TYPE EXAMINATION CERTIFICATE**

according to Directive 94/9/EC, Annex III
(Translation)



[2] Equipment and Protective Systems intended for use in
Potentially Explosive Atmospheres, Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **IBExU13ATEX1069 X**

[4] Equipment: **Level switch**
Type LSA...-Exd

[5] Manufacturer: UAD Service + Vertriebs UG (hb)

[6] Address: Alter Hafen Nord 216
18069 Rostock
GERMANY

[7] The design of the equipment mentioned under [4] and any acceptable variations thereto are specified in the schedule to this EC-Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that the equipment mentioned under [4] has been found to comply with the Essential Health and Safety Requirements (given in Annex II to the Directive) relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive. The test results are recorded in the test report IB-13-3-093 of 28 November 2013.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 and EN 60079-1:2007.

[10] If the sign „X“ is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified under [17] in the schedule to this EC-Type Examination Certificate.

[11] This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

[12] The marking of the equipment mentioned under [4] shall include the following:

Ex II 2G Ex d IIC T6 Gb

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Authorised for certifications
-Explosion protection-

By order

(Dr. Wagner)



- Seal -
(ID no. 0637)

Freiberg, 28 November 2013

Certificates without signature
and seal are not valid.
Certificates may only be
duplicated completely and
unchanged. In case of
dispute, the German text shall

Schedule

[13] **Schedule**

[14] **to the EC-TYPE EXAMINATION CERTIFICATE IBExU13ATEX1069 X**

[15] **Description of equipment**

The Level switch type LSA...-Exd serves for the control and monitoring of liquid levels in potentially explosive atmospheres in the ocean shipping and the industry. The level switch is a switch which works according to the principle of the magnetic power transmission.

The flameproof enclosure of the level switch is produced from red brass and it consists of the enclosure body with flange and the enclosure lid. Inside the enclosure is a micro switch which is actuated via solenoid force from the outside. The electrical connection of the level switch is carried out with a direct cable entry in the flameproof chamber.

Technical data:

- | | |
|--|---------------------|
| - Nominal voltage, max.: | 250 V AC, 24 V DC |
| - Nominal current, max.: | 6 A AC, 2 A DC |
| - Degree of protection according to EN 60529:2000: | min. IP 56 |
| - Ambient temperature range: | -20 °C up to +60 °C |
| - Property class fastening screws: | 70 |

[16] **Test report**

The test results are recorded in the test report IB-13-3-093 of 28 November 2013. The test documents are listed in the annex to the test report.

Summary:

The Level switch type LSA...-Exd fulfils the requirements of explosion protection for equipment of Group II, Category 2G, type of protection flameproof enclosure „d“.

[17] **Special conditions for safe use**

- Repairs of the flameproof joints must be made in compliance with the constructive specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN 60079-1.
- The level switch contains internal sources of ignition according to EN 60079-14, Paragraph 10.4.2. The cable gland selected and delivered by the manufacturer can be used for the electrical connection. At use in areas with gases of the explosion group IIC the respective requirements have to be noticed at the own selection of the cable gland and the connecting cable.
- The level switch has no additional external connection facility for an equipotential bonding conductor. At installation the enclosure has to be connected constructively in the equipotential bonding system according to EN 60079-14, Paragraph 6.3.

[18] **Essential Health and Safety Requirements**

Confirmed by compliance with standards (see [9]).

By order

Freiberg, 28 November 2013



(Dr. Wagner)