

EU-TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- [3] EU-Type Examination Certificate Number: **UL 20 ATEX 2448X Rev. 1**
- [4] Product: **SAS-16 Series of Snap Action Magnetic Level Switches**
- [5] Manufacturer: **Clark-Reliance LLC**
- [6] Address: **16633 Foltz Pkwy., Strongsville, OH 44149 USA**
- [7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in confidential report no. **US/UL/ExTR20.0136/01**.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018 EN 60079-1: 2014**
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.
- [12] The marking of the product shall include the following:

 **II 2 G Ex db IIC T6...T1 Gb**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2020-12-10

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Notified Body UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

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[15] Description of Product
 The SAS-16 Snap Action Magnetic Level Switches (Part Nos. A26617-CE-#, A25669-CE-#, and A26044-CE-##-#) are designed to operate as a point level switch for magnetic liquid level gauges. The switch may or may not have gold contacts. The switch enclosure can be comprised of aluminium alloy or stainless steel. Some Part Numbers utilize an Ex db IIC certified sealing fitting, Ex db IIC certified threaded pipe nipple, and Ex db IIC component certified flameproof enclosure to house a terminal block. Two Ex db IIC certified enclosure options are utilized. The aluminium enclosure option has two threaded entries, one used for connection to the remainder of the SAS-16 assembly, the other for connection in end-use. The stainless steel enclosure option has 3 threaded entries, two of which serve the same functions as with the aluminium option, with the third completed with a factory-installed Ex db IIC certified blanking element.

Nomenclature:

- A25669-CE: Model SAS-16 snap action magnetic level switch, 6061-T6 Aluminium Enclosure.
- A25669-CE-T: Model SAS-16 snap action magnetic level switch, 316 Stainless Steel Enclosure.
- A26044-CE: Identical construction to the A25669-CE but is mechanically secured to an Ex db IIC threaded pipe nipple, Ex db IIC sealing fitting, and an Ex db IIC Ex Flameproof Enclosure housing a terminal block.
- A26044-CE-T: Identical construction to the A25669-CE-T but is mechanically secured to an Ex db IIC threaded pipe nipple, Ex db IIC sealing fitting, and an Ex db IIC Ex Flameproof Enclosure housing a terminal block.
- A26617-CE: Model SAS-16 snap action magnetic level switch, 6061-T6 Aluminium Enclosure. Internal switch features gold contacts.
- A26617-CE-T: Model SAS-16 snap action magnetic level switch, 316 Stainless Steel Enclosure. Internal switch features gold contacts.
- A26044-CE-GC: Identical construction to the A26617-CE but is mechanically secured to an Ex db IIC threaded pipe nipple, Ex db IIC sealing fitting, and an Ex db IIC Ex Flameproof Enclosure housing a terminal block.
- A26044-CE-GC-T: Identical construction to the A26617-CE-T but is mechanically secured to an Ex db IIC threaded pipe nipple, Ex db IIC sealing fitting, and an Ex db IIC Ex Flameproof Enclosure housing a terminal block.

Temperature range

The ambient temperature range is -20 °C to +40 °C.

Electrical data

Part no. A25669-CE, A25669-CE-T, A26044-CE, A26044-CE-T:
 300 Vac, 10A, 2000VA; 240 Vdc, 10A, 50W (maximum)

Part No. A26617-CE, A26617-CE-T, A26044-CE-GC, A26044-CE-GC-T:
 240 Vac, 0.25A, 6 VA; 240Vdc, 0.25A, 3.6W (maximum)

Routine tests

A routine continuity test must be conducted to confirm the continuity between the SAS-16 Snap Action Magnetic Level Switch and the attached internally grounded Ex db IIC terminal enclosure.

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

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Specific conditions of use:

- Contact the manufacturer for dimensions and information on flameproof joints.
- The supply entry of models A25669-CE-# and A26617-CE-# shall be completed with an approved Ex db IIC sealing fitting within 12 mm of the enclosure. The supply entry of models A26044-CE-##-# shall be completed with an approved Ex db IIC sealing fitting within 19mm of the enclosure.
- Only one thread adapter shall be used with each threaded entry on the associated equipment.
- Models A26617-CE-# and A25669-CE-# must be connected to an Ex Terminal enclosure suitably rated for the same Ex db IIC atmosphere as the switches themselves. The terminal enclosure must be provided with an internal protective earthing connection. The connection to the attached terminal enclosure must be via metallic fittings which ensure continuity or earth bonding and are similarly rated for the intended use. If continuity is not maintained between the switch enclosure and the attached terminal enclosure's grounding path, then the external earth bonding terminal shall be used to provide continuity to the attached terminal enclosure. The external bonding facility may also be used as per the local code installation requirements. The flying leads shall be terminated internal to an enclosure suitable for the location of installation.
- Use damp cloth for cleaning to avoid electric charging hazard.
- The following table details the relationship between process temperature and temperature code:

Temperature Code	Process Temperature
T6	-50°C to +80°C
T5	-50°C to +95°C
T4	-50°C to +130°C
T3	-50°C to +195°C
T2	-50°C to +295°C
T1	-50°C to +400°C

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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.



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Schedule
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Additional information

The following trademarks will be used as the company identifier on the marking label:



The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.