



EU-TYPE EXAMINATION CERTIFICATE

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **CSANe 26ATEX1156X** Issue: **0**

Equipment: **Capacitive Proximity Switch Type KAS-** and Inductive Proximity Switch Type IAS-** with optional IO-Link**

Manufacturer: **RECHNER Industrie-Elektronik GmbH**

Address: Gaußstrasse 6-10
68623 Lampertheim
Germany

This product and any acceptable variation thereto, is specified in the schedule to this certificate and the documents therein referred to.

CSA Group Netherlands B.V., Notified Body No. 2813 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the 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 the confidential reports listed in item 16.2.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-18:2015/A1:2017 EN 60079-31:2014
EN IEC 60079-26:2024

Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product, these are not covered by this certificate.

The marking of the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):



II 2G and/or II 1/2D
Ex mb IIC T4 Gb
Ex ta/tb IIIC T₂₀₀101°C Da/Db
-20°C ≤ T_{amb} ≤ +90 °C

Signed: Michelle Halliwell
Title: Senior Director of Operations
Date: 21 September 2026



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SCHEDULE

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Description:

The capacitive/Inductive proximity switch with optional IO-Link type *AS-***_*** **_***_***_***_***_***_***_***_*** is intended for use in hazardous areas and is used for monitoring the filling level of bulk material in silos or containers. The capacitive or inductive sensor is intended for use in areas at risk of explosion due to combustible dusts. The capacitive sensor (KAS...-1/2D) is used, for example, to monitor the level of bulk material in silos and containers or for Equipment Group II, Category 1/2D. The inductive sensor (IAS...-1/2D) serves, for example, as a limit switch for Equipment Group II, Category 1/2D. It is also intended for use in areas at risk of explosion due to flammable gases, Equipment Group II, Category 2G. The sensors are also intended for use in areas at risk of explosion due to flammable gases, Equipment Group II, Category 2G.

The sensor (IAS...-1/2D or KAS...-1/2D) is installed in a container/silo/etc., such that the front part of the housing (active surface) protrudes into the container and is thus located in Zone 20. The other part of the sensor (cable entry, LED, potentiometer) is located outside the tank in Zone 21, in Zone 22.

Any power supply units must always be located outside the hazardous areas. An LED built into the sensor and visible from the outside is used to indicate the switching status.

For KAS only: To adjust the sensitivity, the sensors feature a built-in potentiometer that is accessible from the outside. Depending on the device version, EasyTeach functions (ETW, ETB, ETM) or IO-Link are also available for sensitivity adjustment.

KAS Function: When fill material or objects approach or cover the active surface, the capacitive sensor reacts and changes its output signal.

IAS Function: When metallic objects approach the active surface, the sensor reacts and changes its output signal.

Electrical Ratings

Rated Voltage: 10...30 VDC

Rated Current: 200 mA (Current limited by an internal fuse)

Thermal Data

Maximum surface temperature T at the sensor (category 1D): 101 °C

Maximum surface temperature T at the sensor housing (category 2D): 100 °C

Permitted ambient / process temperature: -20°C to +90°C

Process ratings

Process temperature: -20°C to +90°C

Operational Pressure: Max. 10 bar



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AS- 1/2D

l - inductive



18 **Essential health and safety requirements of Annex II (EHSRs):**

The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.

19 **Remarks and additional information:**

The use of this certificate is subject to the regulations applicable to holders of CSA Group Netherlands B.V. certificates.

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

19.1 **Conditions of manufacture:**

None



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Certificate Annexe

Document History

Issue – 0

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
KAS-80-26-A-ETW/IO-LINK, ATEX	1 of 1	-	19 Aug 26	Schematic – I/O link interface
KAS-80-26/113-A-G1-PTFE-IOL-Z03-ETW-HP-2G-1/2D, ATEX	1 to 3	-	19 Aug 26	Part list for electronics with IO-Link
Type code IAS/KAS-Serie	1 to 8	2.2	14 Sep 26	Type code
KA1802	1 of 1	-	19 Aug 26	Marking – Lid labelling

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