



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CSA 26.0054X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2026-09-21

Applicant: **RECHNER Industrie-Elektronik GmbH**
Gaußstrasse 6-10
68623 Lampertheim
Germany

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

Optional accessory:

Type of Protection: **Encapsulation "mb" & Dust Protection by Enclosure "ta" "tb"**

Marking: **Ex mb IIC T4 Gb**
Ex ta/tb IIIC T₂₀₀101°C Da/Db
-20°C ≤ Tamb ≤ +90 °C

Approved for issue on behalf of the IECEx
Certification Body:

Dave Magee

Position:

Senior Director of Operations

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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Manufacturing locations: **RECHNER Industrie-Elektronik GmbH**
Gaußstrasse 6-10
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Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-26:2021](#) Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection
Edition:4.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CA/CSA/ExTR26.0046/00](#)

Quality Assessment Report:

[GB/CSAE/QAR26.0018/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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

Refer to certificate Annexe for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The sensor is provided with a standardized industrial thread or other connections for the connection to the process when installed between the boundary of Zone 20/Zone 21. Measures shall be taken during installation to prevent the leaks of dust from Zone 20 to Zone 21/Zone 22 during and after the installation.
2. For the versions with metal housings this must be included in the potential equalization as part of the installation.

Annex:

[IECEx CSA 26.0054X Iss 0 Annexe.pdf](#)

Annexe to: IECEx CSA 26.0054X Issue 0

Applicant: RECHNER Industrie-Elektronik GmbH



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

EQUIPMENT (continued)

Capacitive / Inductive Proximity Sensor

*AS-*** ** *-2G-1/2D

*AS-*** ** *-3G-1/2D

*AS-*** ** *-1/2D

