



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: **IECEX BVS 07.0015** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2007-08-15** Page 1 of 4

Applicant: **Rechner Industrie-Elektronik GmbH**
Gaußstr. 8-16
68607 Lampertheim
Germany

Electrical Apparatus: **Capacitive Proximity Switch KAS-*0-**-**-***-StEx-N and Inductive Proximity Switch IAS-***-***-***-***-StEx**
Optional accessory:


Type of Protection: **Construction, test and marking of type of protection encapsulation 'm' electrical apparatus; Protection by enclosures "tD"**

Marking: **For types KAS-70..., KAS-80..., IAS-...:
Ex tD A20/21 IP 67 T101°C and Ex mb II T4
For type KAS-40... :
Ex tD A20 IP67 T 101°C and Ex mb II T4**

Approved for issue on behalf of the IECEx Certification Body: **Dr. R. Jockers**

Position: **Head of Certification Body**

Signature: *(for printed version)*


15. 08. 2007

Date:

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.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



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EQUIPMENT(continued):

Rating

Electrical data

type KAS-40...
to be connected to an intrinsic safe switching amplifier EEx ia IIB/IIC

voltage	DC 5...15 V
current	max. 30 mA
power	max. 100 mW

type KAS-70..., type KAS-80... and type IAS... voltage	DC 10...30 V
current limited by a fuse with a rated current of 200 mA	

Thermal data

type KAS-40... maximum surface temperature	T 101 °C
permitted ambient temperature	-20...+ 90 °C

type KAS-70..., type KAS-80... and type IAS... 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 temperature	-20...+ 90 °C

Degrees of protection according to EN 60529	IP 67
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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The proximity switch serves to monitor the level in container or silos. According to the type it can be mounted completely in zone 20 or 1 or only the front of the sensor is mounted in zone 20 whereas the main part is mounted in zone 21.

The capacitive proximity switch type KAS-40... is supplied by a switch amplifier in type of protection Intrinsic safety. Type KAS-*0-***-**-***-Y5-StEx-N and type IAS-***-***-***-Y5-StEx have a plug and socket connection in type of protection tD and can only be used in dust atmospheres.

Model/type reference

See Annex

CONDITIONS OF CERTIFICATION: NO



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Manufacturer: **Rechner Industrie-Elektronik GmbH**
Gaußstr. 8-16
68607 Lampertheim
Germany

Manufacturing location(s):

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 manufacture'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 electrical apparatus 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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-18 : 2004 Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical 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:

[DE/BVS/ExTR07.0018/00](#)

Quality Assessment Report:
[DE/BVS/QAR07.0008/00](#)