



# 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](http://www.iecex.com)

Certificate No.:  issue No.:

Status:

Date of Issue:  Page 1 of 4

Applicant: **RECHNER Industrie-Elektronik GmbH**  
Gaußstraße 8-10  
68623Lampertheim  
Germany

Electrical Apparatus: **Capacitive level sensor type KFS-\*\*\*-VA-StEx and type KFX-5-\*/-StEx**  
*Optional accessory:*

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

Marking: **Ex mb II T4; Ex tD A20/21 IP67 T110°C**

Approved for issue on behalf of the IECEx Certification Body:

Position:

Signature:   
(for printed version)

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.

Certificate issued by:

DEKRA EXAM GmbH  
Dinnendahlstrasse 9  
44809 Bochum  
Germany





# IECEX Certificate of Conformity

Certificate No.: IECEx BVS 07.0032

Date of Issue: 2007-12-18

Issue No.: 0

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Manufacturer: **RECHNER Industrie-Elektronik GmbH**  
Gaußstraße 8-10  
68623Lampertheim  
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 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 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:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-18 : 2004</b> Edition: 2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> 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/ExTR07.0038/00

Quality Assessment Report:

DE/BVS/QAR07.0008/00



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

#### Description

The capacitive level sensor type KFS-\*\*-\*\*-VA\*-StEx and type KFX-5-\*\*-\*/\*\*-\*\*-StEx is used for level monitoring, controlling and regulating.  
When used in silos with dust generating material the active part meet the requirements for zone 20 and the terminal box meets the requirements for zone 21, when used in hazardous gas-/air mixtures the complete capacitive level sensor meets the requirements for zone 21.  
Type KFS-\*\*-\*\*-VA\*-StEx does not have internal electronics.

#### Model/type reference

See Annex

### CONDITIONS OF CERTIFICATION: NO



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## EQUIPMENT(continued):

### Ratings

#### Electrical data:

Type KFS-\*-\*-\*-VA-\*-StEx

voltage DC 5... 15 V  
current limited by a fuse with  
a rated current of 200 mA

Type KFX-5-\*-\*-\*/\*-\*-StEx

voltage DC 18... 30 V  
current limited by a fuse with  
a rated current of 200 mA

#### Thermal data:

max. surface temperature T 110 °C  
temperature class T4  
permitted ambient temperature -20 °C up to + 100 °C

Degrees of protection according to EN 60529 IP 67