



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.: 1
Status: **Current**
Certificate history:
Issue No. 1 (2013-12-20)
Issue No. 0 (2007-8-15)

Date of Issue: 2013-12-20 Page 1 of 4

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

Electrical Apparatus: **Capacitive and Inductive Proximity Switch type *AS-***-***-***-***-***-StEx**
Optional accessory:

Type of Protection: **Equipment protection by encapsulation "m", Equipment dust ignition protection by enclosure 't'**

Marking: Ex mb IIC T4 Gb
Ex ta/tb IIIC T101°C Da/Db

Approved for issue on behalf of the IECEx Certification Body: H.-Ch. Simanski

Position: Head of Certification Body

Signature:
(for printed version)

Date:

20.12.2013

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



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

Additional 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:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-18 : 2009 Edition: 3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

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/ExTR07.0018/01

Quality Assessment Report:
DE/BVS/QAR07.0008/05



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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.

Subject and type:

See Annex

Parameters:

Electrical data			
voltage	DC 10...30	V	
current limited by a fuse with a rated current of	200	mA	
Thermal data			
maximum surface temperature T at the sensor (zone 20)	101	°C	
maximum surface temperature T at the sensor housing (zone 21)	100	°C	
permitted ambient temperature	-20...+ 90	°C	
Degrees of protection according to EN 60529	IP 67		

CONDITIONS OF CERTIFICATION: NO

Empty box for conditions of certification.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Details of change:

- The Capacitive/ Inductive Proximity Switch is modified according to the documents listed below.
- The type code was adjusted, type *AS-40 (Namur) omitted and another compound added.
- The test report was updated to the current standards.



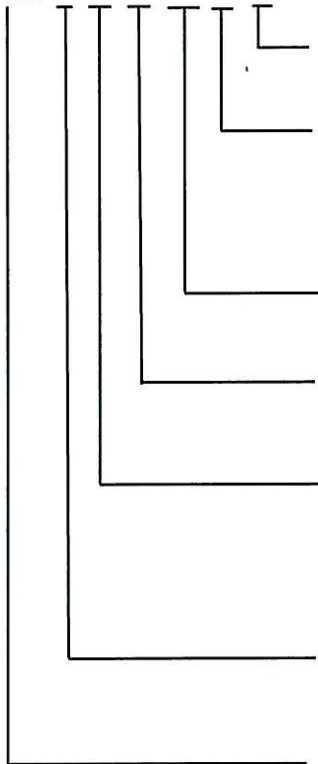
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Annex
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Subject and type:

Capacitive/ Inductive Proximity Switch
*AS-***_***_***_***_***_***-StEx



blank without plug and socket
Y5 / Y10: M12x1 plug and socket with clip (only for dust)

if applicable
PTFE: housing PTFE , PEEK: housing PEEK
PTFE/VA: housing PTFE/VA, PTFE/MS: housing PTFE/MS
PEEK/VA: housing PEEK/VA, PEEK/MS: housing PEEK/MS

if applicable
mounting thread

if applicable
K: PEEK or PTFE plastic housing

dimensions
output: S/Ö/A
S output signal NO
Ö output signal NC
A output signal ambivalent

10, 20 inductive, transistor output
70, 80 capacitive, transistor output

K – capacitive
I - inductive