



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

Certificate No.:	<b>IECEx BVS 07.0015</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 2	Issue 1 (2013-12-20)
Date of Issue:	2021-08-23		Issue 0 (2007-08-15)
Applicant:	<b>Rechner Industrie-Elektronik GmbH</b> Gaußstr. 8-16 68607 Lampertheim Germany		
Equipment:	<b>Capacitive and Inductive Proximity Switch type see "General product information"</b>		
Optional accessory:			
Type of Protection:	<b>Equipment protection by encapsulation "m", Equipment dust ignition protection by enclosure 't'</b>		
Marking:	Ex mb IIC T4 Gb Ex ta/tb IIIC T <sub>200</sub> 101°C Da/Db		

Approved for issue on behalf of the IECEx  
Certification Body:

**Ralf Leiendecker**

Position:

**Deputy Head of Certification Body**

Signature:  
(for printed version)

Date:

**23.08.2021**

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DEKRA Testing and Certification GmbH**  
Certification Body  
Dinnendahlstrasse 9  
44809 Bochum  
Germany

 **DEKRA**  
On the safe side.



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

Additional  
manufacturing  
locations:

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 60079-31:2013** 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:

DE/BVS/ExTR07.0018/02

Quality Assessment Report:

DE/BVS/QAR07.0008/12



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## **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 (category 1D)	101	°C
Maximum surface temperature T at the sensor housing (category 2D)	100	°C
Permitted ambient temperature	-20...+ 90	°C

**SPECIFIC CONDITIONS OF USE: NO**





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

- Updating to the current standards
- A new, alternative compound is added
- PCB for better wire guidance for sensors > 150 mm
- EasyTeach function is added
- Alternative glue Araldite resin CY 221
- Name change of the sensors

## Annex:

BVS\_07\_0015\_Rechner\_Annex\_issue\_2.pdf



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Annex

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## Subject and Type

Capacitive/ Inductive Proximity Switch

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