



# 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.: **IECEX TUN 19.0021X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2020-03-24  
Applicant: **Bürkert Werke GmbH**  
Christian Bürkert Straße 13-17  
74653 Ingelfingen  
Germany  
Equipment: **Microwave sensors type LT8188(\*) .IC\*\*\*A/HXKM\*\* and type LT8189(\*) .IC\*\*\*A/HXKM\*\***  
Optional accessory:  
Type of Protection: **intrinsic safety "ia"**  
Marking: Ex ia IIC T6...T1 Ga resp.  
Ex ia IIC T6...T1 Ga/Gb resp.  
Ex ia IIC T6...T1 Gb

Approved for issue on behalf of the IECEx  
Certification Body:

**Christian Roder**

Position:

**Head of the IECEx Certification Body**

Signature:  
(for printed version)

Date:

**2020-03-24**

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Hanover Office  
Am TÜV 1, 30519 Hannover  
Germany





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Manufacturer: **Bürkert Werke GmbH**  
Christian Bürkert Str. 13 - 17  
74653 Ingelfingen  
**Germany**

Additional manufacturing locations: **Bürkert & Cie S.A.S.**  
Rue du Giessen  
Triembach au Val 67220  
**France**

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 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-26:2014-10** Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga  
Edition:3.0

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/TUN/ExTR19.0026/00](#)

Quality Assessment Report:

[DE/PTB/QAR07.0002/09](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Description of product

The microwave sensors type series LEVEL TRANSMITTER LT8188 and type series LEVEL TRANSMITTER LT8189 are used for evaluation of the distance between a product surface and the sensor via high-frequency microwave pulses. The microwave sensors emit high-frequency microwave pulses, which are carried along a measuring rod resp. a measuring cable. The electronics evaluate the delay time of the signals reflected by the product surface to calculate the distance to this surface.

### Type code

LT8188(\*).AC\*\*\*A/HXKM\*\*

LT8189(\*).AC\*\*\*A/HXKM\*\*

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. At the plastic parts of the microwave sensors type series LEVEL TRANSMITTER LT8188 and type series LEVEL TRANSMITTER LT8189 there is a danger of ignition by electrostatic discharge.

Observe manual of the manufacturer and warning label.

2. For EPL Ga resp. EPL Ga/Gb resp. EPL Gb applications the temperature derating depending on the process temperature must be respected.

3. For EPL Ga resp. EPL Ga/Gb resp. EPL Gb applications, at the metallic parts of the microwave sensors type series LEVEL TRANSMITTER LT8188 and type series LEVEL TRANSMITTER LT8189 made of light metal there is a danger of ignition by impact or friction.

Observe manual of the manufacturer.

4. For EPL Ga/Gb applications and at risks by pendulum or vibration the respective parts of the microwave sensors type series LEVEL TRANSMITTER LT8188 and type series LEVEL TRANSMITTER LT8189 have to be secured effectively against these dangers.

Observe manual of the manufacturer.

5. For EPL Ga/Gb applications the medium tangent materials of the microwave sensors type series LEVEL TRANSMITTER LT8188 and type series LEVEL TRANSMITTER LT8189 have to be resistant to the media.

Observe manual of the manufacturer.

6. For EPL Ga/Gb applications the whole device microwave sensor type series LEVEL TRANSMITTER LT8188 resp. type series LEVEL TRANSMITTER LT8189 shall be mounted in a way that allows an installation that results in a sufficient tight joint (IP66 or IP67) or a flameproof joint (IEC 60079-1) in the direction of the less endangered area.

7. The ambient temperature range depending on temperature class is to be taken from the operating instructions.

8. The maximum capacitance of unearthed conductive parts is 31 pF.

### Annex:

[Attachment to IECEx TUN 19.0021X issue No. 0.pdf](#)