



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

Certificate No.: **IECEX BVS 15.0021** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 1 Issue 0 (2015-03-05)
Date of Issue: 2022-06-27
Applicant: **BROSA GmbH**
Dr. Klein Straße 1
88069 Tett nang
Germany
Equipment: **Load cell type 0113-*******
Optional accessory:
Type of Protection: **Equipment protection by flameproof enclosures "d"**
Marking: Ex d IIC T4 Gb
Ex d IIB T4 Gb
See Description for Details

Approved for issue on behalf of the IECEx
Certification Body:

Dr Franz Eickhoff

Position:

Lead Auditor and officially recognised expert

Signature:
(for printed version)


2022-06-27

Date:
(for printed version)

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 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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Issue No: 1

Manufacturer: **BROSA GmbH**
Dr. Klein Straße 1
88069 Tettnang
Germany

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 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[IEC 60079-1:2007-04](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

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/ExTR15.0020/00](#)

Quality Assessment Report:

[DE/BVS/QAR13.0016/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and type

Load cell type 0113-*****

5-digit number only relevant for order handling, not for explosion protection

Description

The load cell type 0113-***** is designed in type of protection Flameproof Enclosure "d" for use in areas endangered by combustible gas atmosphere.

The main part of the load cell is a massive metal block with five blind holes. The center hole is used to mount the optional measuring transmitter inside. The four other holes are used for the DMSs. All holes are connected to each other via ducts. The blind holes are closed with lids fixed in position by a thread or by snap rings.

The electrical connection is realised by use of a connection head fixed to the center blind hole.

The load cell can be used with separately certified cable glands or alternatively with separately certified plug/socket systems. In case of separately certified cable glands, the cable glands are designed with filling compound for use in gas group IIC and with sealing ring for use in gas group IIB.

SPECIFIC CONDITIONS OF USE: NO



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Equipment (continued):

Parameters

Electrical parameters (active operation mode)

Input voltage U_{In}	DC	9 up to 36	V
Input current I_{In}		5 up to 100	mA
Output voltage U_{Out}	DC	0 up to 10	V
Output current I_{Out}		0 up to 25	mA

Electrical parameters (passive operation mode)

Input voltage U_{In}	DC	1 up to 10	V
Input current I_{In}		3 up to 30	mA

Thermal parameters

Ambient temperature range $-40\text{ °C} \leq T_a \leq +80\text{ °C}$



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The limited liability company was created by changing the form of the public limited company. There is no influence on the Certificate of Conformity of the explosion-proof device.