



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 14.0110X** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 1 Issue 0 (2014-11-05)
Date of Issue: 2022-06-27
Applicant: **BROSA GmbH**
Dr. Klein Straße 1
88069 Tettnang
Germany
Equipment: **Load pin type 0203-*******
Optional accessory:
Type of Protection: **Equipment protection by flameproof enclosures "d"**
Marking: Ex d IIC T4 Gb (cable glands with potting compound)
Ex d IIB T4 Gb (cable glands w/o potting compound)

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/ExTR14.0105/00](#)

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 pin type 0203-*****

The asterisks are not relevant for explosion protection

Description

The load pin consists of a cylindrical enclosure made of steel and electronics built into this enclosure. The bridge signal will be amplified by an integrated amplifier and converted into an output signal. Optionally the load pin can be design as passive variant without the integrated amplifier. The load pin can be designed in different lengths and diameters and with or without separated amplifier enclosure. Optional the load pin can be designed as single- or dual-channel measuring equipment. The amplifier housing for single-channel or redundant measuring can be designed in two ways. On the one hand the amplifier housing can be integrated into housing or on the other hand it can be screwed onto the housing of the load pin. The option for the mounting depends on the geometry of the load pin. The load pin is suitable for use in gas group IIC or IIB. For use in gas group IIB a separately tested and certified cable gland will be used. For use in gas group IIC a separately tested and certified cable gland with potting compound will be used. Optionally the cable gland can be replaced by use of a plug socket system which is separately tested and certified as equipment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The free end of the connecting cable has to be either laid within an appropriate enclosure - inside the potentially explosive atmosphere - or outside the potentially explosive atmosphere.



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Equipment (continued):

Parameters

Electrical parameters

Active variant (with integrated amplifier)

Input voltage	DC	9 up to 36	V
Input current		5 up to 100	mA
Output voltage	DC	0 up to 10	V
Output current		4 up to 25	mA

Passive variant (without integrated amplifier)

Input voltage	DC	1 up to 10	V
Input current		3 up to 30	mA

Thermal parameters

Ambient temperature range

$-40\text{ °C} \leq T_{\text{amb}} \leq 80\text{ °C}$



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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.