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 24.0005X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2024-02-12

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

Equipment: **Tubular load cell type 0205**

Optional accessory:

Type of Protection: **Flameproof Enclosures "d", Protection by Enclosure "t"**

Marking: Ex db IIC T3 Gb
Ex tb IIIC T200°C Db or

Ex db IIC T4 Gb
Ex tb IIIC T130°C Db

Approved for issue on behalf of the IECEx Certification Body: **Dr Franz Eickhoff**

Position: **Senior Lead Auditor, Certification Manager and officially recognised expert**

Signature:
(for printed version)

Date:
(for printed version) 2024-02-12

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

IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 24.0005X**

Date of issue: 2024-02-12 Issue No: 0

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

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

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 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
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/BVS/ExTR24.0003/00

Quality Assessment Report:

DE/BVS/QAR13.0016/11

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Subject and type

Tubular load cell type 0205

Description

The tubular load cell type 0205 is a measuring device for recording loads and forces in industrial applications. The force is determined by means of a strain gauge bridge.
In passive mode, the measured signal is output directly, in active mode the bridge signal is amplified by an integrated, non-intrinsically safe powered operating device and converted into an output signal.
The tubular load cell consists of a cylindrical steel housing with a recessed inner diameter. Inside the housing are the electronic components that convert and process occurring forces into an electrical signal.

SPECIFIC CONDITIONS OF USE: YES as shown below:
In applications that requires equipment protection level EPL Db: The tubular load cell must be used only in areas where strong or repeated charging processes are not expected to occur.

IECEx Certificate of Conformity

Equipment (continued):

Parameters

Active mode (with integrated amplifiers):

Input voltage	DC	9	up to	36	V
Input current		0	up to	300	mA
Output voltage	DC	0	up to	10	V
Output current		0	up to	30	mA

Passive mode (w/o amplifier):

Input voltage	DC	1	up to	10	V
Input current		0	up to	30	mA