



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BVS 15.0019 issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2017-5-4)
Issue No. 0 (2015-2-26)

Date of Issue: **2017-05-04** Page 1 of 5

Applicant: **Brüel & Kjaer Vibro GmbH**
Leydheckerstraße 10
64293 Darmstadt
Germany

Equipment: **Vibration velocity sensor type VS-01...**
Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "d", Equipment dust ignition protection by enclosure "t"**

Marking: **Ex db IIC T6 Gb**
Ex tb IIIC T85°C Db

Approved for issue on behalf of the IECEx Certification Body: **Jörg Koch**

Position: **Head of Certification Body**

Signature: *(for printed version)*

Date: **4.5.17**

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **Brüel & Kjaer Vibro GmbH**
Leydheckerstraße 10
64293 Darmstadt
Germany

Additional Manufacturing location(s):

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 electrical apparatus 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 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 7.0

IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition: 2

*This Certificate **does not** indicate compliance with electrical 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/ExTR15.0017/01](#)

Quality Assessment Report:

[DE/PTB/QAR11.0003/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and Type

Vibration velocity sensor type VS-01...

Description

The Vibration velocity sensor converts mechanical oscillations into an electrical signal. This is made by a permanent magnet and a coil which is suspended by springs. The cup-shaped, metallic enclosure of the Vibration velocity sensor is closed by a casting compound. The enclosure is equipped with an integral cable entry and a permanently fixed connection cable.

SPECIFIC CONDITIONS OF USE: NO



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EQUIPMENT(continued):

Parameters

Output voltage max. 63 V rms
Nominal current max. 13 mA rms
Power dissipation max. 1 W



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

Update to the current standards