



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 EPS 13.0024X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 1 Issue 0 (2014-09-16)
Date of Issue: 2021-02-11
Applicant: **Balluff GmbH**
Schurwaldstraße 9
73765 Neuhausen a.d.F.
Germany
Equipment: **Micropulse transducer BTL7-****-M****-*.DEX*-(SA***-)*******
Optional accessory:
Type of Protection: **d, tb**
Marking: Ex d IIC T6/T5 Ga/Gb
Ex tb III C T85 °C/T100 °C Db IP67

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Certificate Manager

Signature:
(for printed version)

Date:

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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Certificate No.: **IECEX EPS 13.0024X**

Page 2 of 4

Date of issue: 2021-02-11

Issue No: 1

Manufacturer: **Balluff GmbH**
Schurwaldstraße 9
73765 Neuhausen a.d.F.
Germany

Additional
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

IEC 60079-26:2006 Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
Edition:2

IEC 60079-31:2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition:1

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 Reports:

[DE/EPS/ExTR14.0059/00](#)

[DE/EPS/ExTR14.0059/01](#)

Quality Assessment Report:

[DE/PTB/QAR07.0009/08](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 13.0024X**

Page 3 of 4

Date of issue: 2021-02-11

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment:

Balluff Micropulse transducers are used to measure linear movements. Depending on design, the sensor can be mounted independently or integrated into a hydraulic cylinder. The main applications are thus both level measurement in tank containers as well as the detection of piston rod positions in hydraulic cylinders.

Electrical data:

Rated voltage: 24 V DC
Power input: max. 4,0 W

SPECIFIC CONDITIONS OF USE: YES as shown below:

Ambient temperature range:

-40 °C ≤ Ta ≤ +65 °C (T6, T85 °C)

-40 °C ≤ Ta ≤ +80 °C (T5, T100 °C)

The mounting distance between the flanged joint and solid objects, which are not part of the equipment, has to be at least 2 mm.

The equipment shall be used only with the permanently connected cable and the associated cable gland provided by the manufacturer. The use of different connection cables and cable glands is not permissible.

The enclosure may not be opened in areas exposed to explosion hazards.

The operating conditions for use in zone 0 as described in the manufacturer's operation manual and technical documentation have to be respected.



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Certificate No.: **IECEx EPS 13.0024X**

Page 4 of 4

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Exchange of fastening screw type after performance of new type test (overpressure)
- Subsequent update of manufacturer's documentation
- New IP6X Test without gasket, to be independent from gasket material