



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.: issue No.:

Status:

Date of Issue: **2012-02-21** Page 1 of 4

Applicant: **DEHN + SÖHNE GmbH + Co. KG**
Hans-Dehn-Straße 1
92318 Neumarkt/Opf
Germany

Electrical Apparatus: **Blitzductor BXT-series**
Optional accessory:

Type of Protection: **Ex i**

Marking: **Ex ia [ia Ga] IIC T4...T6 Gb**
Ex ib IIC T4...T6 Gb

Approved for issue on behalf of the IECEx
Certification Body:

C.G. van Es

Position:

Certification Manager

Signature:
(for printed version)

Date:

2012-02-21

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 Certification B.V.
Utrechtseweg 310
6812 AR Arnhem
The Netherlands

All testing, inspection, auditing and certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group.





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Manufacturer: **DEHN + SÖHNE GmbH + Co. KG**
Hans-Dehn-Straße 1
92318 Neumarkt/Opf
Germany

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 60079-11 : 2011-06 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "I"
Edition: 6.0

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

[NL/DEK/ExTR11.0088/00](#)

Quality Assessment Report:

[NL/KEM/QAR08.0008/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Blitzductor BXT series serve as transient suppressors in the lines of intrinsically safe circuits.

This approval applies to the following equipment types:

BXT BAS EX (Base unit)

BXT ML4 BD EX 24 (Module)

BXT ML4 BC EX 24 (Module)

BXT ML2 BD S EX 24 (Module)

BXT ML2 BD HF EX 6 (Module)

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature range:

-40 °C to +55 °C for T6;

-40 °C to +75 °C for T5;

-40 °C to +80 °C for T4.

The dielectric strength of at least 500 V of the intrinsically safe circuits of the Blitzductors series BXT is limited only by the overvoltage protection.

For type BXT ML2 BD S EX 24, the terminals X3, X4, X3' and X4' are considered to be connected to earth.



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EQUIPMENT(continued):

Electrical data

Blitzductor BXT series type BXT ML4 B. EX 24 and type BXT ML2 BD S EX 24:

in type of protection intrinsic safety Ex ia IIC.

The level of protection "ia" or "ib" and the apparatus group (IIC or IIB or IIA) is determined by the intrinsically safe circuit (s) in which the Blitzductor BXT series is placed.

Module input circuits:

$U_i = 30 \text{ V}$; $I_i = 500 \text{ mA}$; $P_i = \text{any}$; $C_i = 0 \text{ nF}$; $L_i = 0 \text{ mH}$;

or for connection to a certified intrinsically safe circuit or a circuit in accordance with FISCO, with the following maximum values:

$U_i = 17.5 \text{ V}$; $I_i = 380 \text{ mA}$; $P_i = 5.32 \text{ W}$; $C_i = 0 \text{ nF}$; $L_i = 0 \text{ }\mu\text{H}$.

Module output circuits:

The values of U_o , I_o and P_o are determined by the parameters of the circuit(s) to which the Blitzductor BXT series is connected.

The electrical data applies to each circuit of Module type BXT ML4 BD EX 24 and BXT ML2 BD S EX 24 and to the combined circuits of Module type BXT ML4 BC EX 24.

For Blitzductor BXT series type BXT ML2 BD HF EX 6:

in type of protection intrinsic safety Ex ib IIC.

The apparatus group (IIC or IIB or IIA) is determined by the intrinsically safe circuit(s) in which the Blitzductor BXT series is placed.

Module input circuits:

$U_i = 4.2 \text{ V}$; $I_i = 4.8 \text{ A}$; $P_i = \text{any}$; $C_i = 0 \text{ nF}$; $L_i = 0 \text{ mH}$;

Module output circuits:

The values of U_o , I_o and P_o are determined by the parameters of the circuit(s) to which the Blitzductor BXT series is connected.