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 KEM 09.0077X issue No.:2

Status: **Current**

Date of Issue: **2013-05-10** Page 1 of 4

Certificate history:
Issue No. 2 (2013-5-10)
Issue No. 1 (2010-9-30)
Issue No. 0 (2010-6-18)

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

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

Type of Protection: **Ex i and Ex n**

Marking: Ex ia [ia Ga] IIC T4...T6 Gb
Ex ic IIC T4...T6 Gc
Ex nA IIC T4...T6 Gc

Approved for issue on behalf of the IECEx Certification Body: C.G. van Es

Position: Certification Manager

Signature:
(for printed version)

Date: 2013-05-10

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.

Certificate issued by:

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

DEKRA

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Manufacturer: **DEHN + SÖHNE GmbH + Co. KG**
Hans-Dehn-Strasse 1
D-92318 Neumarkt / Opf
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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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/KEM/ExTR09.0079/00 NL/KEM/ExTR09.0079/01 NL/KEM/ExTR09.0079/02

Quality Assessment Report:

NL/DEK/QAR12.0084/00

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Schedule

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

Blitzductors series BXT serve as transient suppressors in the lines of electronic circuits.

This approval applies to the following equipment:
Base units Type BXT BAS EX and Type BXT BAS WCO EX and modules
Type BXT M2 BD E EX 24 and Type BXT M2 BD S EX 24

Electrical data

Module input circuits (terminals X1, X2, X3 and X4):
Un = 33V; In = 500 mA.

Module input circuits (terminals X1, X2, X3 and X4):
in type of protection intrinsic safety Ex ia IIC, for connection to a certified intrinsically safe circuit, with the following maximum values:
U_i = 30 V; I_i = 500 mA; P_i = any; C_i = 0 nF; L_i = 0 mH;

or in type of protection intrinsic safety Ex ia IIC for connection to a certified intrinsically safe circuit or a circuit in accordance with FISCO, with the following maximum values:
U_i = 17.5 V; I_i = 380 mA; P_i = 5.32 W; C_i = 0 nF; L_i = 0 µH;

or in type of protection intrinsic safety Ex ic IIC, for connection to a certified intrinsically safe circuit, with the following maximum values:
U_i = 33 V; I_i = 500 mA; P_i = any; C_i = 0 nF; L_i = 0 mH.

Module output circuits terminals X1', X2', X3' and X4'):
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.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature range:
-50 °C to +50 °C for T6;
-50 °C to +75 °C for T5;
-50 °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. Terminals X3, X4, X3' and X4' are considered to be connected to earth.

When the Blitzductor BXT series is used in a Fieldbus system according to FISCO, the power supply shall have infallible galvanic isolation and may not be connected to earth or shall be infallibly connected to the potential equalizing system within the hazardous area.

For use in type of protection Ex nA IIC T4...T6 Gc:
The Blitzductor series BXT shall be installed into an enclosure, which meets the requirements of a recognized type of protection, in accordance with IEC 60079-0.

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

Iss.2: Assessment in accordance with the latest edition of the standards.