

CERTIFICATE

(1) EC-Type Examination

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC**

(3) EC-Type Examination Certificate Number: **KEMA 06ATEX0274 X** Issue Number: **4**

(4) Equipment: **Blitzductor BXT-series**

(5) Manufacturer: **DEHN + SÖHNE GmbH + Co. KG**

(6) Address: **Hans-Dehn-Straße 1, 92318 Neumarkt/Opf, Germany**

(7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report number NL/DEK/ExTR11.0088/01.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11

EN 60079-11 : 2012

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:



II 2(1) G Ex ia [ia Ga] IIC T4...T6 Gb
II 2 G Ex ib IIC T4...T6 Gb

This certificate is issued on 12 August 2015 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 06ATEX0274 X**

Issue No. 4

(15) **Description**

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)

Ambient temperature range: -40 °C to +80 °C for temperature class T4,
-40 °C to +75 °C for temperature class T5,
-40 °C to +55 °C for temperature class T6.

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 , P_o , C_o and L_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 EX24.

Blitzductor BXT series type BXT ML2 BD HF EX6:

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.

Installation instructions

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 06ATEX0274 X**

Issue No. 4

(16) **Test Report**

No. NL/DEK/ExTR11.0088/01.

(17) **Special conditions for safe use**

The dielectric strength of at least 500 V of the intrinsically safe circuits of the Blitzductor series BXT is limited only by the overvoltage protection.
For Blitzductor BXT series type BXT ML2 BD S EX 24, the terminals X3, X4, X3' and X4' are considered to be connected to earth.

For ambient temperature range, see (15).

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/DEK/ExTR11.0088/01.