

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 09ATEX0178 X** Issue Number: **3**

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

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

(6) Address: **Hans-Dehn-Straße 1, D-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 212902900/2.

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

EN 60079-0 : 2012

EN 60079-11 : 2012

EN 60079-26 : 2007

(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,T5,T6 Gb or
II 2(1)G Ex ia IIC T4,T5,T6**

This certificate is issued on 10 May 2013 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.

C.G. van Es
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 09ATEX0178 X**

Issue No. 3

(15) **Description**

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

The relation between the ambient temperature and the temperature class is per table below.

Ambient temperature range	Temperature class
-50 °C to +50 °C	T6
-50 °C to +75 °C	T5
-50 °C to +80 °C	T4

Electrical data

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:

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

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 (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 series BXT is connected.

Installation instructions

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

(16) **Test Report**

No. 212902900/2.

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

For ambient temperature range, see (15).

When the Blitzductor series BXT 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.

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.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 09ATEX0178 X**

Issue No. 3

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 212902900/2