

(1) EC-TYPE EXAMINATION CERTIFICATE**(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: 1****(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) KEMA Quality 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 2095019.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:**EN 50014 : 1997 + A1,A2 EN 50020 : 2002 EN 60079-27 : 2006****(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 EEx ia IIC T4,T5,T6**

This certificate is issued on December 14, 2006 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.

KEMA Quality B.V.

P.T. van Nijen
Certification Manager



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 06ATEX0274 X Issue No. 1**

(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)

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

Ambient temperature range	Temperature class
-40 °C ... +60 °C	T6
-40 °C ... +75 °C	T5
-40 °C ... +80 °C	T4

Electrical data

The Blitzductor BXT series are in type of protection intrinsic safety.

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

Module output circuits The U_o , I_o and P_o are determined by the circuit(s) to which the Blitzductor BXT series is connected.

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

The Blitzductor BXT series is suitable for use in a Fieldbus Intrinsically Safe Concept (FISCO).



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 06ATEX0274 X Issue No. 1**

Installation instructions

The Blitzductor BXT series can be installed outside or within the potentially explosive atmosphere, however in all cases they may only be connected to intrinsically safe circuits.

When installed outside the potentially explosive atmosphere its operation may be checked by the LifeCheck unit model DEHNrecord DRC LC1 or DEHNrecord DRC LC2.

The degree of protection of the Blitzductor BXT series is IP20.

When the environmental conditions are such that a higher degree of ingress protection is required, this shall be taken into account.

(16) **Test Report**

KEMA No. 2095019.

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

When the Blitzductor BXT series is used in a Fieldbus Intrinsically Safe Concept (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.

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

Assured by compliance with the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 2095019.