



# 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](http://www.iecex.com)

Certificate No.:  issue No.:

Status:

Date of Issue: **2011-11-29** Page 1 of 3

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

Electrical Apparatus: **Surge suppression device DEHNpipe DPI CD EXI+D 2X..**  
*Optional accessory:*

Type of Protection: **Ex i**


Marking: **Ex ia [ia Ga] IIC T5/T6 Gb**

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

*Position:* Certification Manager

*Signature:*  
*(for printed version)*

*Date:*

  
\_\_\_\_\_  
**2011-11-29**

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.





# IECEx Certificate of Conformity

Certificate No.: IECEx DEK 11.0076X

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Issue No.: 0

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Manufacturer: **DEHN + SÖHNE GmbH + Co. KG.**  
Hans-Dehn-Strasse 1  
D-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/ExTR11.0085/00

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 surge suppression device type DEHNpipe DPI CD EXI+D 2X... serves to limit occasional surge voltages in intrinsically safe circuits.

#### Electrical data

Input circuit (X1, X2, X3, X4 and X5):

in type of protection intrinsic safety Ex ia IIC, for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 58$  V (for type DPI CD EXI+D 2X48.);  $U_i = 30$  V (for type DPI CD EXI+D 2X24.);  $I_i = 550$  mA;  $P_i = 3$  W;  $C_i = 0$  nF;  $L_i = 0$   $\mu$ H;

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;  $L_i = 0$   $\mu$ H.

The dielectric strength of at least 500 V of the intrinsically safe circuits of the surge suppression device DEHNpipe DPI CD EXI+D 2X... is limited only by the overvoltage protection.

### CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature range:

-50 °C to +80 °C for temperature class T5,

-50 °C to +70 °C for temperature class T6.