



# 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.: IECEx DEK 11.0025X Issue No: 2 Certificate history:  
Status: **Current** Issue No. 2 (2017-06-05)  
Date of Issue: **2017-06-05** Page 1 of 4 Issue No. 1 (2013-06-14)  
Applicant: **DEHN + SÖHNE GmbH + Co. KG.** Issue No. 0 (2011-03-21)  
Hans-Dehn-Strasse 1  
D-92318 Neumarkt / Opf.,  
**Germany**

Equipment: **Surge suppression device Type DEHNpipe DPI MD EX 24 ...**  
*Optional accessory:*

Type of Protection: **Ex i**

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

*Approved for issue on behalf of the IECEx  
Certification Body:*

R. Schuller

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

2017-06-05

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





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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** Explosive atmospheres - Part 0: General requirements  
Edition:6.0  
**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

*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/ExTR11.0020/00](#) [NL/DEK/ExTR11.0020/01](#) [NL/DEK/ExTR11.0020/02](#)

### Quality Assessment Report:

[NL/DEK/QAR12.0084/03](#)



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Certificate No: IECEx DEK 11.0025X

Issue No: 2

Date of Issue: 2017-06-05

Page 3 of 4

## Schedule

### EQUIPMENT:

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

The surge suppression device type DEHNpipe DPI MD EX 24 ... serves to limit occasional surge voltages in intrinsically safe circuits.

Ambient temperature range:

-40 °C to +80 °C for temperature class T4,

-40 °C to +70 °C for temperature class T5,

-40 °C to +55 °C for temperature class T6.

### Electrical data

Input circuit (Terminals X1.1, X1.2 and cable W1 (red), W2 (black)):

in type of protection intrinsic safety Ex ia IIC, for connection to a certified intrinsically safe circuit, with the following maximum values:  $U_i = 30 \text{ V}$ ;  $I_i = 500 \text{ mA}$ ;  $C_i = 0 \text{ nF}$ ;  $L_i = 0 \text{ }\mu\text{H}$ ;

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:  $U_i = 17.5 \text{ V}$ ;  $I_i = 380 \text{ mA}$ ;  $P_i = 5.32 \text{ W}$ ;  $C_i = 0 \text{ nF}$ ;  $L_i = 0 \text{ }\mu\text{H}$ .

### SPECIFIC CONDITIONS OF USE: YES as shown below:

Ambient temperature range:

-40 °C to +80 °C for temperature class T4,

-40 °C to +70 °C for temperature class T5,

-40 °C to +55 °C for temperature class T6.

The dielectric strength of at least 500 V of the intrinsically safe circuits of the surge suppression device type DEHNpipe DPI MD EX 24 ... is limited only by the overvoltage protection.



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Certificate No: IECEx DEK 11.0025X

Issue No: 2

Date of Issue: 2017-06-05

Page 4 of 4

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

Model code changed to DEHNpipe DPI MD EX 24 ...