



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

Certificate No.: issue No.: Certificate history:

Status:

Date of Issue: **2013-01-07** Page 1 of 3

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

Electrical Apparatus: **Surge suppression device DEHNconnect Type DCO SD2 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: C.G. van Es

Position: Certification Manager

Signature:
(for printed version)



2013-01-07

Date:

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





IECEX Certificate of Conformity

Certificate No.: IECEx DEK 12.0076X

Date of Issue: 2013-01-07

Issue No.: 0

Page 2 of 3

Manufacturer: **DEHN + SÖHNE GmbH + Co. KG**
Hans-Dehn-Straße 1
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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011-06 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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/ExTR12.0076/00

Quality Assessment Report:
NL/DEK/QAR12.0084/00



IECEx Certificate of Conformity

Certificate No.: IECEx DEK 12.0076X

Date of Issue: 2013-01-07

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The surge suppression device DEHNconnect Type DCO SD2 MD EX 24 serves as transient suppressor in the lines of intrinsically safe circuits.

Electrical data

Module input circuits (terminals X1 and X2):
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

The values of U_o , I_o and P_o are determined by the parameters of the circuit(s) to which the DEHNconnect Type DCO SD2 MD EX 24 is connected.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature range:

-40 °C to +30 °C for T6;
-40 °C to +80 °C for T5;
-40 °C to +80 °C for T4.

The dielectric strength of at least 500 V of the intrinsically safe circuits of the surge suppression device DEHNconnect Type DCO SD2 MD EX 24 is limited only by the overvoltage protection.

Because the enclosure is made of plastic, electrostatic charges on the enclosure shall be avoided.