



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.:	IECEX KEM 09.0051X	Issue No: 4	<u>Certificate history:</u>
Status:	Current	Page 1 of 4	Issue No. 4 (2015-09-10)
Date of Issue:	2015-09-10		Issue No. 3 (2013-12-21)
Applicant:	DEHN + SÖHNE GmbH + Co. KG Hans-Dehn-Strasse 1 92318 Neumarkt / Opf. Germany		Issue No. 2 (2011-11-08)
Electrical Apparatus:	Isolating Spark Gap, Type EXFS 100, Type EXFS 100 KU and Type EXFS 100 KU SN...		Issue No. 1 (2009-11-18)
Optional accessory:			Issue No. 0 (2009-09-18)
Type of Protection:	Ex d, Ex t		
Marking:	Ex db IIC T6 Gb Ex tb IIIC T80 °C Db		

Approved for issue on behalf of the IECEx
Certification Body:

R.H.D. Pommé

Position:

Certification Manager

Signature:
(for printed version)

Date:

2015-09-10

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.
Meander 1051
6825 MJ Arnhem
The Netherlands





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Certificate No: IECEX KEM 09.0051X Issue No: 4
Date of Issue: 2015-09-10 Page 2 of 4
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 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/KEM/ExTR09.0052/04](#)

Quality Assessment Report:

[NL/DEK/QAR12.0084/01](#)



IECEx Certificate of Conformity

Certificate No: IECEx KEM 09.0051X

Issue No: 4

Date of Issue: 2015-09-10

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Isolating Spark Gap, Type EXFS 100, Type EXFS 100 KU and Type EXFS 100 KU SN.... provides galvanic isolation between parts of electrical installations. In case of an increasing potential difference e.g. caused by a lightning strike, the isolation will be abolished by ignition of the spark gap and the building of a low-resistance connection.

Electrical data:

Rated power frequency withstand voltage (50 Hz)	U = 250 Vac
Impulse spark over voltage (1.2/50 μ s)	U \leq 1250 V
Lightning impulse current (10/350 μ s)	I = 100 kA

Note: The electrical data is not in the scope of IECEx certification.

The enclosure provides a degree of protection of IP66/67 in accordance with IEC 60079-0 and IEC 60529.

CONDITIONS OF CERTIFICATION: YES as shown below:

Ambient temperature range:

for type EXFS 100: -20 °C to +60 °C,
for types EXFS 100 KU and EXFS 100 KU SN....: -40 °C to +60 °C.

Electrostatic charging shall be avoided.



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Certificate No: IECEx KEM 09.0051X

Issue No: 4

Date of Issue: 2015-09-10

Page 4 of 4

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

Issue 1:

- Addition of ambient temperature range -20 °C to +60 °C.

Issue 2:

- Ambient temperature range of EXFS 100 KU was extended as -40 °C to +60 °C.
- Assessment according to edition of IEC 60079-0 : 2007 (Ed. 5), IEC 60079-1 : 2007 (Ed. 6)
and IEC 60079-31 : 2008 (Ed. 1).

Issue 3:

- Addition of type EXFS 100 KU SN....

Issue 4:

- Assessment according to recent edition of IEC 60079-0 : 2011 (Ed. 6) + IS01 : 2013, IEC 60079-1 : 2014 (Ed. 4)
and IEC 60079-31 : 2013 (Ed. 2).