

# CERTIFICATE

## (1) EC-Type Examination

### (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **DEKRA 11ATEX0178 X** Issue Number: **3**

(4) Equipment: **Isolating Spark Gap, Type EXFS 100, Type EXFS 100 KU and Type EXFS 100 KU SN....**

(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) DEKRA Certification 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 NL/KEM/ExTR09.0052/04.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0 : 2012 + A11**

**EN 60079-1 : 2014**

**EN 60079-31 : 2014**

(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 G Ex db IIC T6 Gb**  
**II 2 D Ex tb IIIC T80 °C Db**

This certificate is issued on 10 September 2015 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.

DEKRA Certification B.V.

R.H.D. Pommé  
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 11ATEX0178X**

Issue No. 3

(15) **Description**

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

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

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

**Electrical data**

Rated power frequency withstand voltage (50 Hz)

U = 250 Vac

Impulse spark over voltage (1.2/50 µs)

U ≤ 1250 V

Lightning impulse current (10/350 µs)

I = 100 kA

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

**Installation instructions**

The instructions provided with the equipment shall be followed in detail to assure safe operation.

(16) **Test Report**

No. NL/KEM/ExTR09.0052/04.

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

For ambient temperature range, see (15).

Electrostatic charging shall be avoided.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/KEM/ExTR09.0052/04.