CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 11ATEX0178 X** Issue Number: **4**

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

(5) Manufacturer: **DEHN SE**

(6) Address: **Hans-Dehn-Strasse 1, 92318 Neumarkt, Germany**

(7) This product 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 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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/ExTR09.0052/05.

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

EN IEC 60079-0 : 2018 **EN 60079-1 : 2014** **EN 60079-31 : 2014**

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

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

Date of certification: 9 December 2022

DEKRA Certification B.V.

L.G. van Schie
Certification Manager

PRODUCTS RvA C 001

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(13) # SCHEDULE

(14) **to EU-Type Examination Certificate DEKRA 11ATEX0178 X** Issue No. **4**

(15) **Description**

Isolating Spark Gaps, Type EXFS 100, Type EXFS 100 KU and Type EXFS 100 KU SN*** provide 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 product shall be followed in detail to assure safe operation.

(16) **Report Number**

NL/KEM/ExTR09.0052/05.

(17) **Specific conditions of use**

For ambient temperature range, see (15).

Electrostatic charging shall be avoided.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR09.0052/05.

(20) **Certificate history**

Issue 1	-	214535300	Initial certificate.
Issue 2	-	216629100	Addition of type EXFS 100 KU SN***
Issue 3	-	217590300-2	Assessment against latest standard editions.
Issue 4	-	225276300-12	Assessment against latest edition of EN IEC 60079-0 and change of manufacturer's name