Fiditas
explosion safety solutions

17065 · HAA
3635

[1] # EU – TYPE EXAMINATION CERTIFICATE

[2] Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 19 ATEX 0013U** Issue: **1**

[4] Product: **Multicore bushing**

Type: **RSM 21... to RSM 91...**

[5] Manufacturer: **TEPEx Ltd.**

[6] Product: **Medarska 69, 10090 Zagreb, Croatia**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 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 of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 19 CR 013**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

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

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

[10] The sign 'U' is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

[12] The marking of the product shall include the following:

II 2G Ex db IIC Gb
I M2 Ex db I Mb

19.CRT.032

Date: 02.10.2019.

Fiditas d.o.o. ZAGREB

FIDITAS Ltd.
Certification department
Approved:

Marino Kelava, M.E.Eng.

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[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 19 ATEX 0013U**

[15] **Description of product**

Multicore bushing is component intended for mounting into enclosure and serves as electrical connection between flameproof enclosures or between flameproof enclosure and enclosure with another type of protection as defined in EN IEC 60079-0. It is made of metal threaded body with setting compound. Through the setting compound passing leads.

Technical data:

Rated voltage Uo/U:	600/1000 Vac
Rated cross-section of leads:	1,5 mm^2 - 50 mm^2
Service temperature (Ts):	-50°C to +120°C

Table of basic versions:

Type	Maximum number and cross-section of leads [mm^2]	Type and size of thread / length of thread L [mm]
RSM 21	4 x 1,5	M25 x 1,5 – 6g / 18
RSM 23	6 x 1,5	
RSM 25	8 x 1,5	
RSM 30	10 x 1,5	M33 x 1,5 – 6g / 18
RSM 31	12 x 1,5	
RSM 33	6 x 2,5	
RSM 35	6 x 4	
RSM 37	6 x 6	
RSM 41	6 x 10	M36 x 1,5 – 6g / 18
RSM 51	6 x 16	M42 x 1,5 – 6g / 18
RSM 53	3 x 25	
RSM 55	3 x 35	
RSM 61	6 x 25	M50 x 1,5 – 6g / 18
RSM 63	6 x 35	
RSM 65	3 x 50	
RSM 91	12 x 1,5	2×M32 x 1,5 – 6g / 18

[16] **Confidential Report No.** FIDI 19 CR 013

[16.1] **Routine testing**

The bushings are not specific to one flameproof enclosure and the assembly procedure is sufficiently documented. According to EN 60079-1, section 16.2 a routine test is, therefore, not necessary.

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[17] Schedule of Limitations

- The Multicore bushing is Ex component intended for mounting into enclosure and serves as electrical connection between flameproof enclosures according to EN 60079-1 or flameproof enclosures and enclosure with another type of protction defined in EN IEC 60079-0.
- Service temperature of bushing is -50 °C to +120 °C.
- The multicore bushing shall be fixed in the electrical equipment in such a way that is secured against rotation and self-loosening.
- There is an undercut of 2 mm at the base of the thread so non-detachable and non-compressible washer or equivalend device shall be fitted to ensure the required length of thread engagement.

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical description of multicore bushings type RSM...	-	-	26.09.2019.
Certification drawings:			
Multicore bushing type RSM21	T61.15.01.00	-	26.09.2019.
Multicore bushing type RSM23	T61.15.02.00	-	26.09.2019.
Multicore bushing type RSM25	T61.15.03.00	-	26.09.2019.
Multicore bushing type RSM30	T61.15.04.00	-	26.09.2019.
Multicore bushing type RSM31	T61.15.05.00	-	26.09.2019.
Multicore bushing type RSM33	T61.15.06.00	-	26.09.2019.
Multicore bushing type RSM35	T61.15.07.00	-	26.09.2019.
Multicore bushing type RSM37	T61.15.08.00	-	26.09.2019.
Multicore bushing type RSM41	T61.15.09.00	-	26.09.2019.
Multicore bushing type RSM51	T61.15.10.00	-	26.09.2019.
Multicore bushing type RSM53	T61.15.11.00	-	26.09.2019.
Multicore bushing type RSM55	T61.15.12.00	-	26.09.2019.
Multicore bushing type RSM61	T61.15.13.00	-	26.09.2019.
Multicore bushing type RSM63	T61.15.14.00	-	26.09.2019.
Multicore bushing type RSM65	T61.15.15.00	-	26.09.2019.
Multicore bushing type RSM91	T61.15.16.00	-	26.09.2019.
Description of schedule drawings T61.15.01.00 – T61.15.16.00	-	-	26.09.2019.
Instruction for use of multicore bushings type RSM...	-	1	26.09.2019.

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