



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.:	IECEx FTZU 11.0008U	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2016-06-29) Issue 0 (2011-07-15)
Date of Issue:	2021-02-26		
Applicant:	Limatherm S.A. ul. Tarnowska 1 34-600 Limanowa Poland		
Ex Component:	Flameproof bushings Type S...		

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection:	Flameproof enclosure "db"
Marking:	Ex db IIC Gb

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of the Certification Body

Signature:
(for printed version)


2021-02-26



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 www.iecex.com or use of this QR Code.



Certificate issued by:

Fyzikálně technický zkusební ústav
(Physical -Technical Testing Institute)
Pikartská 7, 71607 Ostrava - Radvanice
Czech Republic





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Manufacturer: **Limatherm S.A.**
ul. Tarnowska 1
34-600 Limanowa
Poland

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

This Certificate **does not** indicate compliance with 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 Reports:

[CZ/FTZU/ExTR11.0008/00](#)

[CZ/FTZU/ExTR11.0008/01](#)

[CZ/FTZU/ExTR11.0008/02](#)

Quality Assessment Report:

[CZ/FTZU/QAR11.0004/07](#)





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Ex Component(s) covered by this certificate is described below:

Flameproof line bushings are intended for installation in to flameproof enclosures of explosion-proof apparatus. The body of bushings are made of brass M058 and are nickel-plated. The body of bushings create cylindrical joint with wall of flame proof enclosure of relevant parameters. Bushing serves as electrical connection between flameproof enclosures or between flame proof enclosure and a terminal compartment with another type of protection. The service temperature range of bushings is $-40^{\circ}\text{C} \leq T_s \leq +120^{\circ}\text{C}$. Temperature rises of the bushing in case of max. allowed current do not exceed 45K. (Max. current see annex to this certificate).

SCHEDULE OF LIMITATIONS:

1. Cylindrical holes, into which bushings type S... with cylindrical joint are installed, shall meet the minimum requirements of IEC 60079-1, table 2 or 3 (cylindrical joints). The surface of joints shall be machined so that their average roughness does not exceed $6.3 \mu\text{m}$.
2. The line bushing have to be included in the type test performed in compliance with IEC 60079-1, section 15 for corresponding explosion group.
3. The bushing has to be fixed and secured in the electrical equipment against self – loosening and slewing.
4. Service temperature of the bushing is: $-40^{\circ}\text{C} \leq T_s \leq +120^{\circ}\text{C}$.
5. Bushings are not intended to be repaired.





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 2:

Assessment according to the new edition of the standard IEC 60079-0.

Annex:

[Annex_to_IECEX_FTZU_11_0008_02.pdf](#)

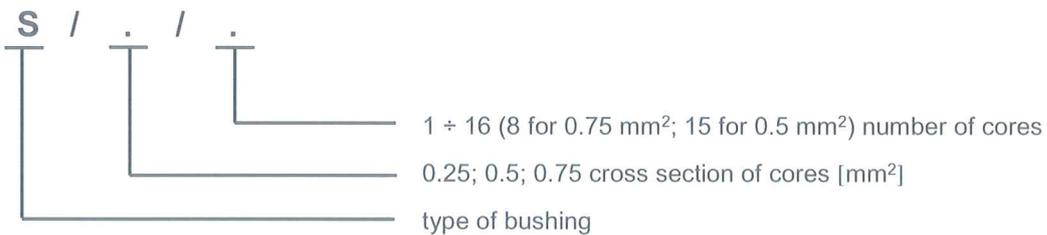




Applicant: **Limatherm S.A.**
Address: **ul. Tarnowska 1, 34-600 Limanowa, Poland**

Electrical Apparatus: **Flameproof bushing type S ...**

Type marking:



Technical parameters:

Max. voltage: 500V

Type of bushing	Cross section of the cores [mm ²]	Diameter of cylindrical joint of bushing	Number of conductors	Max. Rated current [A]	Marking of bushing
S	0.25	Ø 22 ^{-0.03} / _{-0.1}	1 ÷ 16	3.8	S-025-1÷16
	0.50		1 ÷ 15	6.1	S-050-1÷15
	0.75		1 ÷ 8	9.3	S-075-1÷8

