



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 INE 19.0003U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 1 [Issue 0 \(2019-07-17\)](#)
Date of Issue: 2021-06-23
Applicant: **OFFICINE MECCANICHE MAM SRL**
Via Vico Veneto, 32
20090 Fizzonasco di Pieve Emanuele
Italy
Ex Component: Flame Arrestor type FT-CROSS
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: **db, eb, tb**
Marking: Ex db IIC Gb
Ex eb IIC Gb
Ex tb IIIC Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUEIX

Position:

Ex Certification Officer

Signature:
(for printed version)

Date:

2021-06-23

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:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France



controlling risks
for sustainable development



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Manufacturer: **OFFICINE MECCANICHE MAM SRL**
Via Vico Veneto, 32
20090 Fizzonasco di Pieve Emanuele
Italy

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

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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:

[DK/UJD/ExTR19.0015/00](#)

[FR/INE/ExTR19.0004/01](#)

Quality Assessment Report:

[FR/INE/QAR11.0004/09](#)



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

These flame arrestors are intended to be fitted:

- on enclosure "Ex db", with maximum volume 68 dm³ for gas group IIC and 150 dm³ for gas group IIB or IIB+H₂
- on enclosure "Ex eb" or "Ex tb" without limitation of volume.

These Ex Component get the degrees of protection IP66 in accordance with IEC 60529 standard .

SCHEDULE OF LIMITATIONS:

This component can be used in range of ambient temperatures from -60°C to 65°C and in range of operating temperature from -60°C to +200°C.

The maximum temperature recorded is 94°C for ambient temperature 65°C.

The non transmission tests was performed on the standard test rig as specified on Figure 21 of IEC 60079-1 standard. And the overpressure test was performed at 160 bar.

This Ex Component can be fitted only on the external parts of the following enclosures:

- For group IIC with a maximum volume 68 dm³
- For group IIB or IIB+H₂ with a maximum volume volume 150 dm³
- With a maximum reference pressure 40 bar
- Without limitation of volume for type protection "eb" and "tb"



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

For the issue 01:

Removing the temperature class

Annex:

[IECEX INE 19.0003U-01_Annex.pdf](#)



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Issue No.: 01

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Annex: IECEx INE 19.0003U-01_Annex.pdf

MARKING

Marking has to be readable and indelible; it has to include the following indications:

- OFFICINE MECCANICHE MAM
- I – 20090 Fizzonasco di Pieve Emanuele (MI)
- FT-CROSS....
- IECEx INE 19.0003U
- Ex db IIC Gb
- Ex eb IIC Gb
- Ex tb IIIC Db IP66

(*) The type is completed by numbers and/or letters in accordance with the manufacturing variations.

ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.2 of the IEC 60079-1 standard, the equipment defined above is exempted of routine test due to the fact that it has undergone a static type test at 4 times the reference pressure under 160 bar.