

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx DEK 16.0015X Issue No: 0 Certificate history:
Status: **Current** Page 1 of 3 Issue No. 0 (2016-07-13)

Date of Issue: **2016-07-13**

Applicant: **G.M. International S.r.l.**
Via G. Mameli 53-55
20852 Villasanta (MB)
Italy

Equipment: **Surge Arrester, Model D9024S**
Optional accessory:

Type of Protection: **Ex i**

Marking: Ex ia IIC T4 ... T6 Ga
Ex ia IIIC T85 °C ... T135 °C Da

*Approved for issue on behalf of the IECEx
Certification Body:*

R. Schuller

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

2016-07-13

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA Certification B.V.
Meander 1051,
6825 MJ Arnhem
The Netherlands





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Manufacturer: **G.M. International S.r.l.**
Via G. Mameli 53/55
20852 Villasanta (MB)
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Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

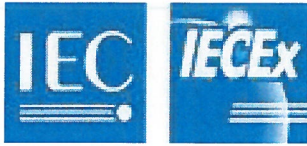
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[NL/DEK/ExTR16.0024/00](#)

Quality Assessment Report:

[NO/DNV/QAR07.0005/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Surge Arrester, Model D9024S serve to limit eventual surge voltages in intrinsically safe circuits. Several units for different intrinsically safe circuits may be mounted next to each other. The earth connection can be made via the mounting foot to a normalized metal mounting rail and via a terminal.

Electrical data

Input circuit (terminals 1 and 2): in type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe circuit with the following maximum values:

$U_i = 30 \text{ V}$; $I_i = 250 \text{ mA}$; $P_i = 750 \text{ mW}$; $C_i = 2 \text{ nF}$; $L_i = 1 \text{ }\mu\text{H}$.

Output circuit (terminals 3 and 4):

in type of protection intrinsic safety Ex ia IIC or Ex ia IIIC. The output parameters are equal to the output parameters of the external intrinsically safe circuit connected to the input circuit. For the determination of the maximum allowed external capacitance (C_o) and inductance (L_o), the values of the internal capacitance (C_i) and inductance (L_i) shall be taken into account.

CONDITIONS OF CERTIFICATION: YES as shown below:

The insulation between the intrinsically safe circuits and earth is not capable of withstanding a 500 Vac test voltage, however this is only caused by the 600 V gas discharge tubes.

Ambient temperature range:

-40 °C to +40 °C for T6 / T85 °C;

-40 °C to +50 °C for T5 / T100 °C;

-40 °C to +80 °C for T4 / T135 °C.