



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 BVS 16.0071X** issue No.: **0** Certificate history: _____

Status: **Current**

Date of Issue: **2016-10-24** Page 1 of 3

Applicant: **G.M. International S.R.L.**
Via Mameli 53/55
20852 Villasanta (MB)
Italy

Equipment: **Digital Relay Output Driver type D5244*, D5244*-xxx**
Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i", Equipment protection by type of protection "n"**

Marking: **Ex nA nC [ia Ga] IIC T4 Gc, [Ex ia Da] IIIC, [Ex ia Ma] I**

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

Position: **Head of Certification Body**

Signature: _____
(for printed version)

Date: **24.10.16**

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 EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



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Manufacturer: **G.M. International S.R.L.**
Via 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 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

*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:

[DE/BVS/ExTR16.0073/00](#)

Quality Assessment Report:

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



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description:

The Digital Relay Output Drivers type D5244* / D5244*-xxx are associated apparatus designed as single or dual channel galvanic isolators, used to interface intrinsically safe field devices located in potentially explosive atmospheres with non-intrinsically safe measuring and process control equipment located in the safe area.

The Digital Relay Output Drivers are packaged in a plastic enclosure suitable for installation on a T35 DIN Rail or on a Termination Board provided with customer dedicated connection, and located in the safe area or optionally in areas requiring EPL Gc equipment.

Electrical connections are accommodated by plug-in removable terminal block or with customer dedicated connector when installed on Termination Board.

The SPDT relay contact(s) of Digital Relay Output Drivers provide safe galvanic separated from non-IS driver circuit(s).

Listing of all components used referring to older standards: N / A

Type Code

See Annex

Rating

See Annex

CONDITIONS OF CERTIFICATION: YES as shown below:

See Annex



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Type Code

Digital Relay Output Driver type D5244*, D5244*-xxx

In the full designation the "*" is replaced by letters marking details of construction as follows:

S = single channel S-xxx = single channel

D = dual channel D-xxx = dual channel

(Option 'xxx' = non-Ex-relevant details of function)

Rating

1. Power supply circuit

Digital Relay Output Driver type	Voltage	Power consumption
	U_n	P_n
	DC/AC [V]	[W]
D5244S, D5244S-xxx,	DC 24 V	≤ 0.6
D5244D, D5244D-xxx	(18...30 V)	≤ 1.2

2. Relay contact circuit intended to be connected to an intrinsically safe circuit, level of protection Ex ia IIC / IIB / IIA or Ex ib IIC / IIB / IIA

Single channel Parameters	Digital Relay Output Driver type	
	D5244S, D5244S-xxx	D5244D, D5244D-xxx
Number of channels	1	2
Voltage U_o	N / A	N / A
Current I_o	N / A	N / A
Power P_o	N / A	N / A
Voltage U_i	DC 40 V / AC 40 V_s	DC 40 V / AC 40 V_s
Current I_i	2 A	2 A
Power P_i	-	-
Effective internal capacitance C_i	0 nF	0 nF
Effective internal inductance L_i	0 μH	0 μH
Remark: N / A = not applicable		

3. Ambient temperature range $-40\text{ }^\circ\text{C} \leq T_a \leq +70\text{ }^\circ\text{C}$



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Conditions of Use

1. Group I application:

The Digital Relay Output Drivers type D5244* / D5244*-xxx shall be installed outside the hazardous area or alternatively in an enclosure providing a suitable type of protection according to separate certification.

2. Group II application:

The Digital Relay Output Drivers type D5244* / D5244*-xxx shall be installed:

- outside the hazardous area, or
- shall be mounted inside an enclosure, which is in accordance with IEC 60079-15 in case of alternative installation in areas requiring EPL Gc equipment.

3. Group III application:

The Digital Relay Output Drivers type D5244* / D5244*-xxx shall be installed outside the hazardous area, or shall be mounted in a suitable enclosure in case of alternative installation in areas requiring EPL Dc equipment.

4. General:

The installation of the Digital Relay Output Drivers type D5244* / D5244*-xxx shall be carried out in such a way that the clearances of un-insulated conductors of intrinsically safe circuits to grounded metal parts of the enclosure are at least 3 mm, and un-insulated conductors of non-intrinsically safe circuits of other apparatus are situated at least 50 mm from terminals for external intrinsically safe circuits, or are separated from them by an insulating barrier according to clause 6.2.1 of IEC 60079-11:2011.