



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 18.0066X

Issue No: 0

Certificate history:

Issue No. 0 (2018-10-22)

Status: **Current**

Page 1 of 3

Date of Issue: **2018-10-22**

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

Equipment: **Termination Board and Pass-Through Module type TB-D5016-TRI-010 and D6001*,
D6001*-xxx**

Optional accessory:

Type of Protection: **Equipment protection by increased safety "e"**

Marking:
Ex ec IIC T4 Gc

Approved for issue on behalf of the IECEx
Certification Body:

Jörg Koch

Position:

Head of Certification Body

Signature:
(for printed version)

Date:


22.10.18

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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Certificate No: IECEx BVS 18.0066X Issue No: 0
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Manufacturer: **G.M. International S.R.L.**
Via G. Mameli 53/55
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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 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 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0
IEC 60079-7 : 2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

*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/ExTR18.0073/00](#)

Quality Assessment Report:

[NO/DNV/QAR07.0005/08](#)



IECEX Certificate of Conformity

Certificate No: IECEx BVS 18.0066X

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Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Type Code

Termination Board type TB-D5016-TRI-010
Pass-Through Module type D6001*, D6001*-xxx (* = S single channel; * = D dual channel)
Option "xxx" = non Ex-relevant details of construction or function.

Description

The Termination Board type TB-D5016-TRI-010, which is designed as a rack, mountable on 35 mm DIN-Rails, consists of a metallic base panel with DIN-Rail hooks at the rear side, a backplane-PCB at the front side of the base panel and positioning / mechanical fixing assemblies for electronic modules plugged in the rack.
The backplane-PCB, which carries non-intrinsically safe circuits only, is fitted with 16 backplane connectors for electronic modules, terminals for redundant external DC 24 V power supply, a connector for external remote control / data interface and electronic components.
The electronic modules pluggable in the rack are subject to other IECEx Test Reports / IECEx Certificates of Conformity except for Pass-Through Module type D6001*, D6001*-xxx.
The Termination Board may be fitted with up to 16 isolator devices of D5xxx series designed as associated apparatus according to IEC 60079-11 exclusive-or with up to 16 isolator devices carrying only non-intrinsically safe circuits.
In case of electronic modules providing intrinsically safe circuits, plugged in the rack, U_m values defined in the certificates of the electronic modules apply to the external non-intrinsically safe circuits of the Termination Board type TB-D5016-TRI-010.
The Termination Board is intended for installation in the safe area or in areas requiring EPL Gc equipment. If located in EPL Gc area, only electronic modules certified for use in EPL Gc area shall be plugged in.
The rack may be fitted with Pass-Through Modules type D6001S, D6001S-xxx, D6001D, D6001D-xxx.
Pass-Through Modules type D6001*, D6001*-xxx consist of a pluggable module enclosure made of plastic material, which contains a printed circuit board fitted with overvoltage / overcurrent protection components, backplane connector and terminals for single channel or dual channel loop connection.
The loop connection is intended to reach non-IS field- and control-side circuits.

Listing of all components used referring to older standards: not applicable.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Installation in areas requiring EPL Gc equipment

- 1.1 The Termination Board fitted with electronic modules shall be mounted on a metallic DIN-rail located in a controlled environment providing pollution degree 2 (or better) according to IEC 60664-1 or in an enclosure, which complies with EPL Gc requirements according to IEC 60079-0 / IEC 60079-7 and provides degree of IP protection IP54 according to IEC 60529.
- 1.2 Termination Board, fitted with electronic modules designed as associated apparatus:
only electronic modules providing terminals for intrinsically safe circuits on the same side of module housings shall be used.
- 1.3 Connection or disconnection of energized non-intrinsically safe circuits is only permitted in the absence of a potentially explosive atmosphere.

2. Installation in the safe area

- 2.1 Termination Board, fitted with electronic modules designed as associated apparatus:
only electronic modules providing terminals for intrinsically safe circuits on the same side of module housings shall be used.
- 2.2 Termination Board, fitted with electronic modules providing only terminals for non-IS circuits:
None

Annex:

[BVS_18_0066X_GMInternational_Annex.pdf](#)



IECEX Certificate of Conformity



Certificate No.: IECEx BVS 18.0066X
Annex
Page 1 of 1

Ratings

1. Termination Board type TB-D5016-TRI-010

1.1 Power supply circuit

Parameter	Value	Plug-in terminal block
Rated voltage (U_n)	DC 24 V	PWR1 and PWR2
Maximum common voltage (U_m)	the same value of U_m as of the connected module applies	
PWR1 main power supply terminal, PWR2 redundant power supply terminal		

1.2. Remote control / data interface circuit

Parameter	Value	Connector
Rated voltage (U_n)	DC \leq 30 V	COM1
Maximum voltage (U_m) ¹⁾	AC 253 V ²⁾	
Remarks: ¹⁾ U_m may be disregarded, if Termination Board is fitted only with electronic modules not providing intrinsically safe circuits ²⁾ if not otherwise specified in the certificate of the plugged-in electronic module providing intrinsically safe circuits		

2. Pass-Through Module type D6001*, D6001*-xxx

Field- and control-side circuits

Parameter		Device	
		D6001S, D6001S-xxx	D6001D, D6001D-xxx
Terminals	channel 1	7, 8	7, 8
	channel 2	N/A	9, 10
Rated output voltage (U_n)		$U \leq$ DC 30 V ¹⁾	$U \leq$ DC 30 V ¹⁾
Rated output current (I_n)		100 mA ²⁾	100 mA ²⁾
Remark: ¹⁾ identical with voltage present at terminal board connector of the device ²⁾ derating of available output current versus ambient temperature according to the graph in the manual N/A = not applicable			