

Translation

Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

Type Examination Certificate Number: **BVS 14 ATEX E 031 X** Issue: **01**

Equipment: **Power Distribution and Diagnostics Module type D5202S and D5202S-xxx**

Manufacturer: **G.M. International S.R.L.**

Address: **Via Mameli 53/55, 20852 Villasanta (MB), Italy**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential Report No. BVS PP 14.2054 EU.
This issue of the Type Examination Certificate replaces the previous issue of the Type Examination Certificate BVS 14 ATEX E 031 X including supplement 1.

The Essential Health and Safety Requirements are assured in consideration of:

| | |
|------------------------------------|-------------------------------|
| EN IEC 60079-0:2018 | General requirements |
| EN IEC 60079-7:2015+A1:2018 | Increased Safety "e" |
| EN IEC 60079-15:2019 | Type of Protection "n" |

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following (marking is provided in the Schedule as a part of item 15, if applicable):

 **II 3G Ex ec nC IIC T4 Gc**

DEKRA Testing and Certification GmbH
Bochum, 2022-08-01

Signed: Dr. Rolf Krökel

Managing Director

13 **Appendix**

14 **Type Examination Certificate**

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15 **Product description**

15.1 **Subject and type**

Power Distribution and Diagnostics Module type D5202S and D5202S-xxx
Option "xxx" = non Ex -relevant details of construction or function

15.2 **Description**

The Power Distribution and Diagnostics Module is designed as power supply- and control-device for DIN Rail Isolators of *D5*** series and is designated for installation in areas requiring EPL Gc equipment.
Electronic components of the Power Distribution and Diagnostics Module are arranged on printed-circuit-boards (PCB) packaged in plastic enclosures suitable for installation on T35 DIN Rails

Reason for this issue

- Updating of the standards
 - o EN 60079-0
 - o EN 60079-15
- Change of the ignition protection type from "nA" to "ec"

15.3 **Parameters**

15.3.1 Power supply circuit

| Power Distribution and Diagnostics Module type | Voltage | | Power dissipation |
|--|---------|------------|-------------------|
| | U_n | I_{load} | P_n |
| | DC [V] | DC [A] | [W] |
| D5202S, D5202S-xxx | 24 | ≤ 4 | ≤ 1 |

15.3.2 Fault condition signaling relay contacts

| Voltage U_n | Contact rating | | |
|----------------------------------|---------------------------------------|----------------------------|--------------|
| | AC 250 V | DC 250 V | DC 30 V |
| Current I_{load} ¹⁾ | ≤ 4 A | ≤ 0.2 A ²⁾ | ≤ 4 A |
| Power ¹⁾ | ≤ 1000 VA | ²⁾ | ≤ 120 W |
| ¹⁾ resistive load | ²⁾ see detailed data sheet | | |

15.3.3 Ambient temperature range $-40\text{ °C} \leq T_a \leq +70\text{ °C}$

16 **Report Number**

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17 **Specific Conditions of Use**

In case of installation in areas requiring EPL Gc equipment, the Power Distribution and Diagnostics module shall be:

- Used in an area with a pollution degree of at least 2 according to EN 60664-1, and
- be installed in an enclosure with a degree of protection of at least IP54 in accordance with EN 60079-0.

18 **Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

19 **Remarks and additional information**

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH
Bochum, 2022-08-01
BVS-Ret/Mu A 20220360 / 3427104



Managing Director