



[1] **TYPE EXAMINATION STATEMENT**  
**CATEGORY 3 EQUIPMENT**

[2] **Equipment intended for use in potentially explosive atmospheres - ATEX**

[3] Type Examination Statement number:

**IMQ17ATEX009X**

[4] PRODUCT: DIN RAIL ISOLATOR

TYPE/SERIES: D5098S , D5098D

[5] APPLICANT: **G.M. INTERNATIONAL S.R.L.** – VIA MAURO MACCHI, 27 – 20124 MILANO (MI)

[6] MANUFACTURER: **G.M. INTERNATIONAL S.R.L.** – VIA G. MAMELI, 53/55 – 20852 VILLASANTA (MB)

[7] This equipment and any acceptable variation thereto are specified in the annex to this statement and the documents therein referred to.

[8] IMQ states that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the: **Directive 2014/34/EU** with reference to the requirements covered by following standard. The examination and test results are recorded in confidential report no.

**AT16-0004668-01**

[9] Compliance with Essential Health and Safety Requirements given in the Directive and covered by the following standard, has been assured by conformity to the requirements of this standard:

**EN 60079-0:2012 + A11:2013 ; EN 60079-15:2010**

[10] If the sign "X" is placed after the statement number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This TYPE EXAMINATION STATEMENT relates only to the design, examination and tests of the specified equipment. Further requirements of the Directive 2014/34/EU are not covered by this statement.

[12] The marking of the equipment shall include the following:



**II 3G**

**Ex nA nC IIC T4 Gc**

THIS DOCUMENT IS COMPOSED OF 3 PAGES INCLUDING 1 ANNEXES

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**IMQ**

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**IMQ17ATEX009X**

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## ANNEX

- [13]
- [14] Type Examination Statement number: **IMQ 17 ATEX 009 X**
- [15] Description of product:  
Single (D5098S) and dual (D5098D) channel Relay Output modules, suitable for the switching of safety related circuits, providing isolation between input and output contacts.  
D5098S provides one NO contact for normally energized loads and one NC contact for service purposes.  
D5098D provides two NO contacts for two normally energized loads and two NC contact for service purposes.  
Mounting on standard DIN-Rail or on customized Termination Boards, in Safe Area or in Zone 2.
- [15.1] Models/Series Identification: D5098S , D5098D
- [15.2] Ratings:  
Un: 24 V DC  
Power dissipation @ 24 V: 1,1 W (D5098S) - 1,2 W (D5098D)  
Contact ratings: 250 V AC / DC, 5 A up to +60 °C, 2 A @ +70 °C
- [15.3] Safety Ratings: N/A
- [15.4] Ambient temperature and temperature classes:  
The equipment has temperature class T4 with  $T_{amb}: -40 \div +70 \text{ °C}$
- [15.5] Degree of protection (IP code): IP20
- [15.6] Warnings: DO NOT OPEN WHEN ENERGIZED
- [16.1] Routine (factory) tests:  
The manufacturer shall carry out the routine tests described at paragraph 23.2.2 of IEC 60079-15 Standard.
- [16.2] Conformity with the documentation:  
The manufacturer shall carry out the verifications or tests necessary to ensure that the product complies with the documentation.  
Marking the equipment in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:
- the equipment has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
  - the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.
- [16.3] Installation conditions:  
Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.  
Installation and use in atmospheric and environmental conditions that are out of above mentioned intervals requires special considerations and additional measures by the side of installer or user.  
These should be specified to the manufacturer by the user; it is not required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.  
This equipment shall be installed and maintained according to installation and maintenance standards EN 60079 14 and EN 60079 17.
- [17] Special Condition of use (X):

**IMQ 17 ATEX 009 X**



The equipment covered by this report has been evaluated as electronic low power equipment for process and control industry, which shall be used in an area of not more than pollution degree 2, as defined in IEC 60664-1. Therefore the required environmental conditions in terms of humidity and temperature shall be selected accordingly by the user. Moreover the equipment shall be placed into an enclosure which provide a degree of protection not less than IP54, which shall meet the requirements as given in clause 7 of IEC 60079-0, and tested according to clause 21 of IEC 60079-15. Provision shall be assured, external to the equipment by the installation location, to provide a transient protection device at a level not exceeding 120 V on input connections, and not exceeding 140% of the peak rated voltage of the equipment output connections.

[18] Essential Health and safety Requirements:

This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in [9].

This Certificate **does not** cover hazards coming from environmental conditions different from those clearly and precisely indicated in clause 1 of EN 60079-0.

ESHR 1.2.7: According Annex VIII of the Directive

ESHR 1.4: Not verified.

ESHR 1.5: Not applied.

ESHR 3: Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this product, and conformity is demonstrated in the report:

N/A: additional Requirements for the products have not been considered

[19] Descriptive documents: DL- AT16A0004668-01, rev. 0, dated 2017-05-31, 38 pages.

[20] Statement Validity Conditions:

The use of this Statement is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.

The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.

One copy of the mentioned documentation is kept in IMQ file.

[21] In accordance with Article 41 of Directive 2014/34/EU, Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. New issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

[22] Variations:

**IMQ 17 ATEX 009 X**