SIA CE-TEST
Notified body No. 2861

EN ISO/IEC 17065
S1-622

[ 1 ] **EU-TYPE EXAMINATION CERTIFICATE**

[ 2 ] Equipment or protective system intended for use in potentially explosive atmospheres – Directive 2014/34/EU

[ 3 ] EU-type examination certificate Number: **CETS 24 ATEX 059 X** **Issue:0**

[ 4 ] Product: **Spark protection unit Omnicomm BIS-MX**

[ 5 ] Manufacturer: **OMNICOMM VIETNAM LIMITED LIABILITY COMPANY**
[ 6 ] Address: **126 Dong Van Cong Street, Thanh My Loi Ward, Thu Duc City, Ho Chi Minh City, Vietnam,**
**Factory: B2-3, B2-4 Lot A, N5B Street, Le Minh Xuan 3 Industrial Park, Binh Chanh District, Ho Chi Minh City, Vietnam**
[ 7 ] This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
[ 8 ] The Certification body SIA «CE-Test», notified body number 2861 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, 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 confidential Evaluation report number 059/2024 from 22.03.2024.
[ 9 ] Compliance with Essential Health and Safety Requirements has been assured by compliance with: EN IEC 60079-0:2018, EN 60079-11:2012
[ 10 ] If the sign «X» is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate
[ 11 ] This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
[ 12 ] The marking of the equipment or protective system shall include the following:

Ex II (1)G [Ex ia Ga] IIB

SIA "CE-Test" * Nr/ 42103087208 * CE-TEST Riga

Date of certification: 01.04.2024

Responsible person: Ing. Pavlo Khorunzhyy
Head of certification body

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[ 13 ] SCHEDULE

[ 14 ] EU-TYPE EXAMINATION CERTIFICATE: **CETS 24 ATEX 059 X** **Issue: 0**

[ 15 ] Description of Product:
BIS-MX spark protection unit on voltage regulation tubes is designed to protect intrinsically safe circuits when exposed to a voltage of up to 250 V.
Attention! BIS-MX is designed to be located outside of the hazardous area.
BIS-MX is designed for installation in electrical circuits connecting the LLS-Ex 5 Fuel level sensor (further LLS-Ex 5), located in a hazardous area, and an external device, located in an explosion-proof area, and limits the values of voltage and current to intrinsically safe.
Attention! BIS-MX must always be grounded when in use.
BIS-MX is part of the connected electrical equipment; it executes the "intrinsically safe electrical circuit" type of explosion protection - i, the "extra explosion-proof' level of explosion protection - a, and IIB.

Table 1 Technical data of tested product:

| Parameter | Value |
|---|---|
| Power supply voltage, V | from 8 to 50 |
| Operating temperature range, $^0$C | from - 40 to + 80 |
| Ingress protection rating from dust and moisture | IP69K |
| Overall dimensions (without cables), mm | 138 x 115 x 56 |
| Weight, not more than | 0,9 kg |

Table 2 Electrical parameters of intrinsic safety

| Parameter name | Value | |
|---|---|---|
| | Pin 2,5 | Pin 3,6 |
| External capacitance Co, µF, not more than | 2 x15 | |
| External inductance Lo, mH, not more than | 2 x 1,0 | |
| Maximum input voltage Um, V, not more than | 250 | |
| Maximum output voltage Uo, V, not more than | 2 x 6,95 | 2 x 6,5 |
| Maximum output current Io A, not more than | 2 x 0,463 | 2 x 0,127 |

For a more detailed description of the design, please refer to the relevant instruction manual.

[ 16 ] Test Report
The examination and test results are recorded in confidential Evaluation Report number 059/2024 from 22.03.2024

[ 17 ] Specific conditions of use
- The product is not intended for installation in a potentially explosive atmosphere. Its output serves as an intrinsically safe barrier (ia) for a capacitive probe for continuous level measurement, type Fuel level sensors, Omnicomm type LLS-Ex 5.

[ 18 ] Essential health and safety requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information: None.

[ 19 ] Drawings and Documents

The documents are listed in the Evaluation report number 059/2024 from 22.03.2024

| Title Technical Documents | Decimal number | Date |
|---|---|---|
| Passport | Passport BIS-MX | 2024 |
| Evaluation of Intrinsically Safe Circuits | Evaluation of Intrinsically Safe Circuits BIS-MX | 2024 |
| Drawing | VN20255.05-01Dim Drg | - |
| Drawing | VN81131 | - |