



(1) **EU TYPE – EXAMINATION CERTIFICATE**

(2) Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014 - Equipment and protective systems intended for use in potentially explosive atmospheres, Annex III, Module B

(3) EU-Type Examination Certificate Number:

No. 221299210/X

Issue: 0

(4) Product: **Equipment and protective systems intended for use in potentially explosive atmospheres;
Spark protection unit, Omnicomm**

Type: **BIS-MX**

(5) Manufacturer: **Omnicom Technologies LLC**

(6) Address: **Office T3-1A, Str. 7, Build. 1, Fabrichnaya str., Schelkovo, Moscow Region, 141108, Russian Federation**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) TSÚ Piešťany, š.p. as Notified Body No. 1299 in accordance with Article 17 of the Directive 2014/34/EU of the 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 the confidential report: Conformity assessment report No. 220500017/2 dated 23.06.2022.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018; EN 60079-11:2012

(10) 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.

(11) This EU-Type Examination Certificate relates only to the technical design 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 product or protective system shall include following:

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

Issue date: 23.06.2022

Expiry date: 22.06.2032

(following procedure according to Module D or F)



Ing. Dušan HANKO
on behalf of TSÚ Piešťany, š.p., NB 1299

(13)

Schedule

(14)

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No. 221299210/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.

Technical data of tested product:

Parameter	Value
Power supply voltage, V	from 8 to 50
Operating temperature range, °C	from - 40 to + 60
Ingress protection rating from dust and moisture	IP68
Programmable interface transmission rate	IP68
Overall dimensions (without cables), mm	138 x 115 x 56
Weight, not more than	2 kg

Electrical parameters of intrinsic safety

Parameter name	Value	
	Pin 2,5	Pin 3,6
External capacitance C_o , μ F, not more than	2 x15	
External inductance L_o , mH, not more than	2 x1,0	
Maximum input voltage U_m , V, not more than	250	
Maximum output voltage U_o , V, not more than	2 x 6,95	2 x 6,5
Maximum output current I_o , A, not more than	2 x 0,463	2 x 0,127

Installation and connection:

Instructions for installation and connection can be found in the Operating Manual 29.32.30.160-030-03066711-2018 OM

(16)

Report: No. 1261LPMK from 16.03.2022

(17)

Special conditions for safe 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:

Met by compliance with the requirements mentioned in item 9.

(19)

Remarks and additional information:

The conformity assessment procedure is not completed and manufacturer can affix the CE, issue the EU declaration of conformity and put the product on the market only after the conformity assessment according to one of the follow-up procedures (Module D or E) set out in the Directive 2014/34/EU.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

This certificate cannot be used as a certificate for the product, where a change influencing conformity with the applied normative documents and regulations was done without the approval of the TSÚ Piešťany, š.p.

It is forbidden to modify, amend or rewrite the data in the certificate.

The holder of this certificate must keep the conditions specified in the General Rules for Product Certification, which are freely available at www.tsu.eu

