

Translation

EU-Type Examination Certificate

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

EU-Type Examination Certificate Number: **BVS 23 ATEX E 030 X** Issue: **00**

Equipment: **Isolating spark gap type EX ISG N**

Manufacturer: **OBO Bettermann Hungary Kft.**

Address: **Alsóráda 2, 2347 Bugyi, Hungary**

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, Notified Body number 0158, in accordance with Article 17 of 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 No. BVS PP 23.2051 EU.

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

EN IEC 60079-0:2018
EN 60079-1:2014
IEC 60079-31:2022

General requirements
Flameproof enclosure “d”
Protection by Enclosure “t”

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 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.

The marking of the product shall include the following:



II 2G Ex db IIC T6 Gb
II 2D Ex tb IIIC T80°C Db

DEKRA Testing and Certification GmbH
Bochum, 2023-08-02

Signed: Oliver Brumm

Managing Director



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15 Product description

15.1 Subject and type

Isolating spark gap type EX ISG N

15.2 Description

The isolating spark gap is intended to provide galvanic isolation between electrical installations. The galvanic isolation prevents not only electrochemical corrosion but provides also a connection capable of carrying lightning current. The isolating spark gap provides lightning equipotential bonding.

The electrode compartment of the spark gap is designed in type of protection Flameproof Enclosure "db" or Protection by Enclosure "tb".

15.3 Parameters

Lightning current (10/350 μ s) (I_{imp})	50	kA
Lightning current carrying capability class	N	
Rated response voltage (U_{imp} (1,2/50 μ s))	≤ 1.5	kV
Rated withstand voltage ($U_{W,AC}$ / $U_{W,DC}$)	300	V / AC 50 Hz
	425	V / DC
I_n (8/20 μ s)	100	kA
AC response voltage U_{aW} (50/60 Hz)	640	V ($\pm 25\%$)
Ambient temperature range (T_{amb})	-20 °C up to +80 °C	
IP-protection	IP67	

16 Report Number

BVS PP 23.2051 EU, as of 2023-08-02

17 Specific Conditions of Use

The isolation spark gap shall be protected against mechanical impact by the installation.

18 Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9.

The standard IEC 60079-31:2022 is equivalent to the harmonized standard EN 60079-31:2014 in terms of safety.

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, 2023-08-02
BVS-Ret/Mu A 20220211 / 343012600



Managing Director

