



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX BVS 23.0019X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-08-10

Applicant: **OBO Bettermann Hungary Kft.**  
Alsóráda 2  
Bugyi 2347  
Hungary

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

Optional accessory:

Type of Protection: **Flameproof Enclosures "d", Protection by Enclosure "t"**

Marking: Ex db IIC T6 Gb  
Ex tb IIIC T80°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr Franz Eickhoff**

Position:

**Senior Lead Auditor, Certification Manager and officially  
recognised expert**

Signature:  
(for printed version)

  
2023-08-10

Date:  
(for printed version)

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Certificate issued by:

**DEKRA Testing and Certification GmbH**  
Certification Body  
Dinnendahlstrasse 9  
44809 Bochum  
Germany





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Date of issue: 2023-08-10

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Manufacturer: **OBO Bettermann Hungary Kft.**  
Alsóráda 2  
Bugyi 2347  
Hungary

Manufacturing locations: **OBO Bettermann Hungary Kft.**  
Alsóráda 2  
Bugyi 2347  
Hungary

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

#### STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

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

#### TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR23.0024/00](#)

Quality Assessment Report:

[DE/BVS/QAR10.0010/09](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Subject and Type

Isolating spark gap type EX ISG N

### 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".

### Parameters

Lightning current (10/350 $\mu$ s) ( $I_{imp}$ )	50 kA
Lightning current carrying capability class	N
Rated response voltage ( $U_{imp}$ (1,2/50 $\mu$ s))	$\leq 1.5$ kV
Rated withstand voltage ( $U_{W AC}$ / $U_{W DC}$ )	300 V / AC 50 Hz 425 V / DC
$I_n$ (8/20 $\mu$ s)	100 kA
AC response voltage $U_{aW}$ (50/60 Hz)	640 V ( $\pm 25$ %)
Ingress protection	IP67

### SPECIFIC CONDITIONS OF USE: YES as shown below:

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

The ambient temperature range is  $-20$  °C  $\leq T_{amb} \leq 80$  °C.