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

Certificate No.: **IECEx TUR 20.0063X**

Certificate history:
Issue 0 (2020-11-05)

Status: **Current**

Issue No: 1

Date of Issue: 2025-05-14

Applicant: **DEHN SE**
Hans-Dehn-Strasse 1
Neumarkt 92318
Germany

Equipment: **Surge protector type BlitzductorConnect BCO *L2 B* * and BCO CL4 B* ***

Optional accessory:

Type of Protection: **"e"**

Marking: Ex ec IIC T4 Gc

Approved for issue on behalf of the IECEx Certification Body: **Christian Mehrhoff**

Position: **Assigned certifier**

Signature:
(for printed version)

Date:
(for printed version) 2025-05-14

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany

IECEx Certificate of Conformity

Certificate No.: **IECEx TUR 20.0063X**

Date of issue: 2025-05-14 Issue No: 1

Manufacturer: **DEHN SE**
Am Ludwigskanal 1
Mühlhausen 92360
Germany

Manufacturing locations:

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 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/TUR/ExTR20.0063/01

Quality Assessment Report:

NL/DEK/QAR12.0084/07

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Surge protector type BlitzductorConnect **BCO *L2 B* *** and **BCO *L4 B* ***
The first asterisks in the type designation will be replaced by letters and indicate the respective type of the construction of the equipment.

Type **BCO CL2 B* *** and **BCO CL4 B* *** are compact version.

Type **BCO ML2 B* * i**s a modular version with module type **BCO MOD ML2 B* *.**

The second asterisk in the type designation **BCO *L2 B* *** is replaced by the letter D or E or a space:
The letter D indicates the protection of a symmetrical interface.
The letter E indicates the protection of a non-symmetrical interface.

The fiirst asterisk in the type designation **BCO CL4 B* *** is replaced by the letter D, E or C or a space:
The letter D indicates the protection of a symmetrical interface.
The letter E indicates the protection of a non-symmetrical interface.
The letter C indicates the protection with additional transverse voltage limitation

The type designation BCO * L2 B 180 indicates a pure lightning current arrester.
The last asterisk in the type designation is replaced by a number and indicates the connectable nominal voltage in volts.

If the last asterisk is replaced by the letter combination HF 5, the connectable nominal voltage is 8.5 volts.

The surge protector is a universal lightning and surge arrester.
The differential voltage is limited by a gas-arrester and a one or two TVS diodes. The common mode voltage to earth is limited by two gas-arresters (600 V).

Technikal data see attachement to IECEx TUR 20.0063X Issue 01

SPECIFIC CONDITIONS OF USE: YES as shown below:
1). The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.

2). The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0.

3). The environmental data must be taken into account – see electrical data above and the operating instructions.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
New types are added

Type BCO CL4 BC 24,
Type BCO ML2 BE 180,
Type BCO ML2 BD 180
Type BCO ML2 BE HF 24,
Type BCO ML2 BD HF 24

Company name changed

from
DEHN SE + Co KG
Hans-Dehn-Str. 1
92318 Neumarkt
Germany

to
DEHN SE
Hans-Dehn-Str. 1
92318 Neumarkt
Germany

Factory location changed

from
DEHN SE + Co KG
Hans-Dehn-Str. 1
92318 Neumarkt,
Germany

to
DEHN SE
Am Ludwigskanal 1
92361 Mühlhausen,
Germany

Annex:

Attachment to ICEx_TUR_20.0063_X_01_REV_02.pdf

Attachment to Certificate IECEx TUR 20.0063X Revision 01

Device: **Surge protector**

Type: **BlitzductorConnect BCO *L2 B* *, BCO CL4 B* ***

Manufacturer: **DEHN SE**

Address: **Am Ludwigskanal 1**
92361 Mühlhausen,
Germany

Technical data:

1). Input circuit
Terminals No. 1 – 2

Types BCO *L2 B 180

Maximum input voltage	180 V
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	1,2 A

Types BCO *L2 B* 12

Maximum input voltage	15 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	

Types BCO *L2 BE 24

Maximum input voltage	33 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	

Types BCO *L2 BE 48

Maximum input voltage	54 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	

Types BCO *L2 BD 24

Maximum input voltage	36 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	

Types BCO *L2 BD 48

Maximum input voltage	56 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	

Types BCO *L2 B* HF 5

Maximum input voltage	8,5 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	

Type BCO CL4 BC 24

Maximum input voltage	36 V
Allowable maximum input current	3 A
at the maximum ambient temperature Ta = 80 °C	

Type BCO ML2 BE 180

Maximum input voltage	180 V
Allowable maximum input current	0,4 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,5 A
at the maximum ambient temperature Ta = 70 °C	

Type BCO ML2 BD 180

Maximum input voltage	180 V
Allowable maximum input current	0,4 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,5 A
at the maximum ambient temperature Ta = 70 °C	

Type BCO ML2 BE HF 24

Maximum input voltage	36 V
Allowable maximum input current	0,6 A
at the maximum ambient temperature Ta = 80 °C	
Allowable maximum input current	0,75 A
at the maximum ambient temperature Ta = 70 °C	

Type BCO ML2 BD HF 24

Maximum input voltage	36 V
Allowable maximum input current at the maximum ambient temperature Ta = 80 °C	0,6 A
Allowable maximum input current at the maximum ambient temperature Ta = 70 °C	0,75 A

2). Output circuit (protected)
Terminals No. 1‘ – 2‘

The maximum values of the output circuit are identical to those that are connected to the input circuit defined above under 1).

3). The functional earth connection via the DIN rail is not a connection facility according to IEC 60079-0.

Ambient temperature range:

-40 °C ≤ Ta ≤ +80 °C for types BCO CL2 B 180, BCO CL4 BC 24 and BCO ML2 B 180

-40 °C ≤ Ta ≤ Tamax according to electrical data listed above for all other types