# Certificate of Compliance

**Certificate:** 2516389 **Master Contract:** 215727

**Project:** 80228969 **Date Issued:** December 11, 2024

**Issued To:** **DEHN SE**
**Hans-Dehn-Strasse 1**
**NEUMARKT/OBERPFALZ, Bavaria, 92318**
**Germany**

**Attention: Christian Frey**

***The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.***

**Issued by:** Jayaraj Balaraman

**PRODUCTS**

CLASS 4838 01- TELECOMMUNICATION EQUIPMENT - For Hazardous Locations
CLASS 4838 81 - TELECOMMUNICATION EQUIPMENT - For Hazardous Locations - Certified to US Standards

Class I, Division 2, Groups A, B, C, D T4
Class I, Zone 2, AEx nA IIC T4
Ex nA IIC T4

Suppressors types: BXT BAS (Base unit) and the following modules:
BXT ML. B 180, BXT ML. BE . 5, BXT ML. BE . 12, BXT ML. BE . 24, BXT ML4 BE 36, BXT ML. BE . 48, BXT ML4 BE 60, BXT ML4 BE 180, BXT ML. BD . 5, BXT ML. BD . 12, BXT ML. BD . 24, BXT ML. BD . 48, BXT ML4 BD 60, BXT ML. BD 180, BXT ML4 BC 5, BXT ML4 BC 24, BXT ML4 BE C 12, BXT ML4 BE C 24, BXT ML. BE HF. 5, BXT ML. BD HF. 5, BXT ML4 BD HF 24 and BXT ML2 BD DL S 15.


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Ratings are as follows:

| Type | U = |
|---|---|
| BXT ML. BE . 5, BXT ML. BD . 5, BXT ML4 BC 5, BXT ML. BE HF . 5, BXT ML. BD HF . 5 | 5 V |
| BXT ML. BE . 12, BXT ML. BD . 12, BXT ML4 BE C 12 | 12 V |
| BXT ML2 BD DL S 15 | 15 V |
| BXT ML. BE . 24, BXT ML. BD . 24, BXT ML4 BC 24, BXT ML4 BE C 24, BXT ML4 BD HF 24 | 24 V |
| BXT ML4 BE 36 | 36 V |
| BXT ML. BE . 48, BXT ML. BD . 48 | 48 V |
| BXT ML4 BE 60, BXT ML4 BD 60 | 60 V |
| BXT ML. B 180, BXT ML4 BE 180, BXT ML. BD 180 | 180 V |

| Type | Ta (max) | I = |
|---|---|---|
| BXT ML. BE . 5, BXT ML4 BE 60, BXT ML4 BE 180, | 45 °C | 1 A |
| BXT ML. BD . 5, BXT ML. BD . 12, BXT ML. BD . 24, BXT ML. BD . 48, BXT ML4 BD 60, BXT ML4 BC 5, BXT ML. BE HF . 5, BXT ML. BD HF . 5, BXT ML4 BD HF 24 | 80 °C | 0.55 A |
| BXT ML. BE . 12, BXT ML. BE . 24, BXT ML. BE . 48, | 45 °C | 0.75 A |
| BXT ML. BD 180, BXT ML4 BC 24 | 80 °C | 0.45 A |
| BXT ML. B 180, BXT ML4 BE 36 | 45 °C | 1.2 A |
| | 80 °C | 0.8 A |
| BXT ML4 BE C 12, BXT ML4 BE C 24 | 80 °C | 0.1 A |
| BXT ML2 BD DL S 15 | 70 °C | 0.4 A |

Ambient temperature range: -40 °C to +80 °C.

## CONDITIONS OF ACCEPTABILITY

1. The Blitzductor series BXT must be installed within a suitable end-use enclosure that requires a tool to access and is appropriately certified, providing a suitable degree of protection and the requirements of a recognized type of protection, for use in Class 1, Division 2 locations. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation.
2. Wiring to or from this device, which enters or leaves the system enclosure, must utilize wiring methods suitable for Class I, Division 2 and Zone 2 Hazardous Locations, as appropriate for the installation.


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**Project:** 80145074

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## APPLICABLE REQUIREMENTS

| | |
|---|---|
| CAN/CSA-C22.2 No. 60079-0-07 | Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements |
| ANSI/ISA-60079-0 (2009) | Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements |
| CAN/CSA C22.2 No.226-92 | Protectors in Telecommunication Networks |
| CSA C22.2 No. 213-17 (R 2022) | Non-Incendive Electrical Equipment for Use in Class I and II, Division 1 and 2, Class III, Division 1 and 2 Hazardous(Classified) Locations |
| CAN/CSA E60079-15-02 (R2006) | Electrical Apparatus for explosive gas atmospheres - Part 15: Type of protection “n” |
| ANSI/ISA-60079-15 (2001) | Electrical Apparatus for explosive gas atmospheres - Part 15: Type of protection “n” |
| UL 497B, Fourth Edition, June 14, 2004 | UL Standard for Safety Protectors for Data Communications and Fire Alarm Circuits |
| ANSI/UL 121201 Ninth Edition, April 1, 2021 | Non-Incendive Electrical Equipment for Use in Class I and II, Division 1 and 2, Class III, Division 1 and 2 Hazardous(Classified) Locations |


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## MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

The following markings are pad printed or provided on an adhesive nameplate (UL listed: PGJI2. MH17657), further tested in accordance with CSA C22.2 No. 157-92 cl. 6.12.2 and are affixed to the sides.

- The CSA Mark, with or without the “C” and “US” indicators, as shown on the Certificate of Conformity.
- Manufacturer’s name: “*DEHN* ”, or CSA Master Contract Number “215727”, adjacent to the CSA Mark in lieu of manufacturer’s name.
- Model designation: As specified in the PRODUCTS section, above.
- Manufacturing date, or serial number, traceable to year and month of manufacture.
- Electrical ratings: As specified in the PRODUCTS section, above.
- Hazardous locations designation: As specified in the PRODUCTS section, above.
- Method of protection (Ex – markings): As specified in the PRODUCTS section, above.
  The word “Class” may be abbreviated “CL”, the word “Division” may be abbreviated “DIV”, the word “Groups” may be abbreviated “GRP” or “GP”, and the word “Zone” may be abbreviated “ZN”.
- CSA certificate number: CSA12CA2516389X
- Temperature code: As specified in the PRODUCTS section, above.
- Ambient temperature rating: As specified in the PRODUCTS section, above.

## INSTALLATION MANUAL AND DOCUMENTATION

An installation manual, datasheet, or other documentation shall be supplied with each unit, containing the following minimum information:

- A recapitulation of the information with which the equipment is marked, except for the serial number.
- Manufacturer’s name and address
- A description of the intended use of the equipment.
- A statement that if the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- Mounting and installation instructions, including dimensions, and the following words, or equivalent:
  - Wiring to or from this device, which enters or leaves the system enclosure, must utilize wiring methods suitable for Class I, Division 2 and Zone 2 Hazardous Locations, as appropriate for the installation.


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- Specification for ambient temperature rating: -40 °C to +80 °C.
- Electrical ratings: As specified in the product section above.
- Specification for appropriate wiring to the connector, including definition of pin functions, and specification for wire gauge.
- Instructions for proper grounding of the equipment.
- A description of all input and output connections.
- Instructions for safety addressing the following areas:
  - on-site assembling;
  - any specialized installation information for the user, such as a specific sequence of assembling;
  - information about the mechanical assembling such as pipe connections;
  - installation and erection;
  - information, other than the general requirements given in Canadian Electrical Code (CAN/CSA C22.1), and National Electrical Code (ANSI/NFPA 70);
  - information about bonding, shield earthing, or overvoltage protection.
- Conditions of Use – "The Blitzductor series BXT must be installed within a suitable end-use enclosure that requires a tool to access and is appropriately certified, providing a suitable degree of protection and the requirements of a recognized type of protection, for use in Class 1, Division 2 locations. The suitability of the enclosure is subject to investigation by the local Authority Having Jurisdiction at the time of installation."

Notes:

Products certified under Class C483801, C483881 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca


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# *Supplement to Certificate of Compliance*

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***The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.***

## Product Certification History

| Project | Date | Description |
|---|---|---|
| 80228969 | December 11, 2024 | Correction of Class numbers from C225802 & C225882 to C483801 & C483881 respectively to rectify an error from Edition 1. |
| 80145074 | August 02, 2024 | Update to report 2516389 to accomplish the following:<br>1. To address non-conformance noted in FC# 215728, FIR dated July 25, 2022.<br>2. Update of standard CSA C22.2 No. 213-1987 to CSA C22.2 No. 213-2017 (R2022) as per certification notice Hazardous Locations Products No. 28 and addition of ANSI/UL 121201 Ninth Edition, April 1, 2021 to applicable requirements.<br>3. Update the descriptive documents to add, modify or remove drawings to recognize the changes.<br>4. Replacing the Ordloc standards C22.2 No. 142-M1987 (R2004) & UL 916 (2007) with CAN/CSA C22.2 No.226-92 & UL 497B respectively based on the assessment performed in the Ordloc report 2743410.<br>5. Removal of standard ANSI/UL 913 (2006) from the applicable requirements. |
| 2516389 | April 23, 2012 | Original CSA certification of suppressors series BXT. |


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