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 CSA 24.0015X** Page 1 of 3 Certificate history:

Status: **Current** Issue No: 0

Date of Issue: 2024-12-11

Applicant: **CTC - Connection Technology Center, Inc.**
7939 Rae Blvd.
Victor
New York 14564
United States of America

Equipment: **AC93*-***, AC94*-***, AC95*-***, LP82*-***, LP92*-***, TA93*-***, VE80*-*** Series Transducer Sensors.**

Optional accessory:

Type of Protection: **Increased safety and dust protection**

Marking: Ex ec IIC T*°C Gc
Ex tc IIIC T135°C Dc

T4 for ambient temperature range of -40°C to +80°C
T3 for ambient temperature range of -40°C to +121°C

*Temperature Class depends on the ambient temperature

Approved for issue on behalf of the IECEx Certification Body: **Dave Magee**

Position: **Senior Director of Operations, Toronto**

Signature:
(for printed version)

Date:
(for printed version)

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:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W IR3
Canada

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Manufacturing locations: **CTC - Connection Technology Center, Inc.**
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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 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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:

CA/CSA/ExTR24.0033/00

Quality Assessment Report:

CA/CSA/QAR08.0011/12

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

General Product Description:

Vibration sensors which are used for acceleration measurement by means of piezo-electric device. The piezoelectric is subjected to compression pressure from a mass which produce a voltage in proportion to the acceleration. The voltage is then amplified by internal electronic circuitry. This can also be integrated within the amplifier board to produce a velocity output, referred to with a VE prefix. For the Loop Power series (LP prefix), the output is converted to a 4-20 mA. These sensors can be used in conjunction with a temperature board to provide the temperature of the environment the sensor is contained within this configuration is referred to with a TA prefix. For the, Low power and LP series sensor, an external power source is required necessitating an extra conductor wire. The sensors are mounted to the surface of the desired surface via a threaded bolt or by other means to be approved of by the authority having jurisdiction.

See annexe for further information.

Conditions of Manufacture

- The equipment shall be subjected to dielectric strength test using test voltage of 500 VAC applied between circuit and earth for 60 seconds. Alternatively, a voltage of 20% higher may be applied for 1 second. There shall be no evidence of flashover or breakdown and the maximum current flowing during the test shall not exceed 5 mA r.m.s. at any time. Refer to IEC 60079-7:2017 Ed. 5.1 clause 7.1.
- Cables of the following CTC part numbers CB190, CB191 and CB192 are restricted only for use with sensors of a maximum ambient temperature of + 80◦C, the manufacturer shall ensure that the product is marked accordingly.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Cables of the following CTC part numbers CB190, CB191 and CB192 are restricted only for use with sensors of a maximum ambient temperature of + 80◦C, the manufacturer shall ensure that the product is marked accordinglyTemperature code depends on the ambient range: T4 for ambient range of -40°C to +80°C and T3 for ambient range of -40°C to +121°CThe sensors have to be used with the cables, offered and sold by the manufacturer.
- For applications in explosive dust atmospheres the equipment must not be exposed to charge generating mechanisms as flow of particles, charge spraying or strong electrostatic fields.

Annex:

IECEx CSA 24.0015X Annexe Issue 0_1.pdf