



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 CML 24.0150X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2025-08-13
Applicant: **PCB Piezoelectronics Inc.**
3425 Walden Avenue
Depew 14043-2495
United States of America
Equipment: **Industrial Triaxial ICP Accelerometers EX629XYYYY EX630XYYYY EX639XYYYY**
Optional accessory:
Type of Protection: **Increased Safety "ec", Intrinsic Safety "ic"**
Marking: Ex ec IIC T4 Gc
Ex ic IIC T4 Gc
Ta = -40°C to +121°C

Approved for issue on behalf of the IECEx
Certification Body:

Stelios Rumbedakis

Position:

Certification Manager

Signature:
(for printed version)

S. Rumbedakis

Date:
(for printed version)

2025-08-13

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:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **PCB Piezoelectronics Inc.**
3425 Walden Avenue
Depew 14043-2495
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Manufacturing locations: **PCB Piezoelectronics Inc.**
3425 Walden Avenue
Depew 14043-2495
United States of America

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[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:

[GB/CML/ExTR24.0281/00](#)

Quality Assessment Report:

[NL/DEK/QAR14.0004/08](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Industrial triaxial ICP accelerometer is composed of a hermetically sealed, stainless-steel housing, which houses a piezoelectric crystal and a circuit board.

Refer to Certificate Annex for full Product Description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Certificate Annex

Annex:

[Certificate Annex IECEx CML 24.0150X Issue 0.pdf](#)

Annexe to: IECEx CML 24.0150X Issue 0
Apparatus: Industrial Triaxial ICP Accelerometers
EX629XXXXZ
EX630XXXXZ
EX639XXXXZ
Applicant: PCB Piezoelectronics Inc.



Description

Industrial triaxial ICP accelerometer is composed of a hermetically sealed, stainless-steel housing, which houses a piezoelectric crystal and a circuit board.

Either a four-pin threaded connector which is provided at the top or the side of the housing, or the unit will be provided with an integral cable.

The vibration sensors provide a voltage output when subjected to mechanical motion.

There are three versions:

- 1) Industrial triaxial ICP accelerometer with connector (EX629XXXXZ and EX630XXXXZ)
- 2) Industrial triaxial ICP accelerometer with integral cable (EX629XXXXZ and EX630XXXXZ)
- 3) Industrial triaxial ICP accelerometer connector version (EX639XXXXZ)

Ratings:

Connector version (ic):

Ui: 28 V

Ii: 120 mA

Pi: 840 mW

Ci: 15 nF

Li: 0 μ H

Integral cable version (ic) (Maximum cable length 500 ft (152.4 m):

Ui: 28 V

Ii: 120 mA

Pi: 840 mW

Ci: 45.5 nF

Li: 152.5 μ H

Increased safety versions (ec):

U: \leq 28 V

I: \leq 120 mA

P: \leq 840 mW



Certificate Annex IECEx
Version: 12.0 Approval: Approved



Eurofins E&E CML Limited
Newport Business Park, New Port Road
Ellesmere Port, CH65 4LZ, UK



Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

All models:

- i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.
- ii. Each unit shall be subjected to a routine dielectric strength test in accordance with the requirements of IEC 60079-7:2017 Ed. 5.1 clause 7.1 or IEC 60079-11:2011 Ed. 6 clause 10.3. The test shall be conducted at a voltage of at least 500 V, 50 Hz for at least 60 seconds. There shall be no breakdown or flashover observed as a result of the test.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

Intrinsic safety models "ic"

- i. The mounting of the equipment into an installation shall be carried out so that the metallic body and cable shield are reliably connected to the system earth.
- ii. Installation shall be as per the requirements of the instruction manual.

Increased safety models "ec"

- i. The mounting of the equipment into an installation shall be carried out so that the metallic body and cable shield are reliably connected to the system earth.
- ii. Installation shall be as per the requirements of the instruction manual.
- iii. Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment.
- iv. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.

Components used which are covered by Ex Certificates issued to older editions of Standards

None.



Certificate Annex IECEX
Version: 12.0 Approval: Approved



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