

TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- 1. Type Examination Certificate Number: ITS19ATEX45016X Issue 00
- 2. Product: ACCELEROMETERS [EX(M)637XYYYZ; EX(M)638XYYYZ]
- 3. Manufacturer: PCB Piezotronics, Incorporated.
- 4. Address: 3425 Walden Avenue, Depew, NY 14043-2495, USA
- 5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 6. Intertek Testing and Certification Limited, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of the products intended for use in potentially explosive atmospheres given in Annex II of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.
- 7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013 and EN 60079-15:2010 except in respect of those requirements referred to within item 14 of the Schedule
- **8.** If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- **9.** This Type Examination Certificate relates only to the design of the specified product and not to specific items subsequently manufactured.

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10. The marking of the product shall include the following:

11

 $\begin{cases} II 3 G Ex nA IIC T4 Gc \\ -196^{\circ}C \le Ta \le +121^{\circ}C \end{cases}$

Certification Officer:

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Date:

16 Auugst 2019

Kevin J. Wolf

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 TSA

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.



SCHEDULE:

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11. Description of Equipment or Protective System

The products are Accelerometers with similar electronics.

EX(M)637XYYYZ Series Industrial ICP Accelerometer with Top exit connector

EX(M)638XYYYZ Series Industrial ICP Accelerometer with Side exit connector

The Accelerometers provide a voltage output when subjected to mechanical motion. They are intended to be fixed installation in the explosive atmosphere and to be supplied by:

field chosen/installed intrinsically safe barrier item for Ex ia

or

field chosen/installed supply item for Ex nA.

12. Report Number

Intertek Report: 103312845CRT-003a Dated: 8-August-2019.

13. Conditions of Certification

(a). Special Conditions of Use

• The apparatus must be only connect to an equipment whose electrical parameters are compatible with the electrical parameters. The apparatus shall be connected according to drawing 70910 (page 2/2). The connected cable and the connector must provide a minimum ingress protection of IP54, when assessed according to IEC 60079-0 and IEC 60079-15. Unused connector must be fitted with an appropriately rated blanking cover.

- (b). Conditions of Manufacture Routine Tests
 - Dielectric Strength Test Per IEC 60079-15

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 103312845CRT-003a Dated: 8-August-2019.

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15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Technical File	70893	NR	7/24/2019
SECURITE INTRINSEQUE			
NON SPARK/ARC			
ATEX Ex ia			
ATEX Ex nA			
EX(M)637XYYYZ Series Industrial ICP Accelerometer			
EX(M)638XYYYZ Series Industrial ICP Accelerometer			
Page 1 of 2			
Technical File	70893	NR	7/24/2019
SECURITE INTRINSEQUE			
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ATEX Ex ia			
ATEX Ex nA			
EX(M)637XYYYZ Series Industrial ICP Accelerometer			
EX(M)638XYYYZ Series Industrial ICP Accelerometer			
Page 2 of 2			
DESCRIPTIVE NOTICE	70894	NR	07/24/19
FOR THE CERTIFICATION OF			
ACCELEROMETERS			
(ATEX Descriptive Notice)			
Page 1 of 1			
AMPLIFIER ASSEMBLY	70895	NR	7/16/19
Page 1 of 3			
AMPLIFIER ASSEMBLY	70895	NR	7/16/19
Page 2 of 3			
AMPLIFIER ASSEMBLY	70895	NR	7/16/19
Page 3 of 3			
ETCHING DRAWING	70897	NR	8/8/19
MODEL EX(M)637XYYYZ SERIES			
ETCHING DRAWING			
Page 1 of 2		1. 다음이 가지 1. 이번 가지 않는 것 같아.	

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Total Quality. Assured.

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15. Drawings and Documents (Continued)

Title:	Drawing No.:	Rev. Level:	Date:
ETCHING DRAWING MODEL EX(M)638XYYYZ SERIES ETCHING DRAWING	70897	NR	8/8/19
Page 2 of 2 APPROVAL INTERCONNECTION DIV 1, ZONE 0 Page 1 of 2	70910	NR	7/27/19
APPROVAL INTERCONNECTION DIV 2, ZONE 2 Page 2 of 2	70910	NR	7/27/19
INSTRUCTIONS FOR USE – EX(M)637XYYYZ and EX(M)638XYYYZ Series Page 1 of 3	70911	NR	08/01/19
INSTRUCTIONS FOR USE – EX(M)637XYYYZ and EX(M)638XYYYZ Series Page 2 of 3"	70911	NR	08/01/19
INSTRUCTIONS FOR USE – EX(M)637XYYYZ and EX(M)638XYYYZ Series Page 3 of 3"	70911	NR	08/01/19
APPROVAL XTAL DRAWING Page 1 of 1"	71165	NR	7/24/19

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