

# 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)637XYYYY; EX(M)638XYYYY]
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.
10. The marking of the product shall include the following:



II 3 G Ex nA IIC T4 Gc  
-196°C ≤ Ta ≤ +121°C

**Certification Officer:**

*Kevin J. Wolf*  
Kevin J. Wolf

**Date:**

16 August 2019



## **SCHEDULE:**

**TYPE EXAMINATION CERTIFICATE NUMBER ITS19ATEX45016X Issue 00**

### **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.



## SCHEDULE:

TYPE EXAMINATION CERTIFICATE NUMBER ITS19ATEX45016X Issue 00

### 15. Drawings and Documents

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



**15. Drawings and Documents (Continued)**

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