



Certificate of Compliance

Certificate: 2781570

Master Contract: 184981

Project: 80017956

Date Issued: 2020-05-06

Issued To: PCB Piezotronics
3425 Walden Ave
Depew, New York, 14043
United States

Attention: Carrie Termin

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: *Hossein Saleh*
Hossein Saleh

PRODUCTS

CLASS 2258 03 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations

CLASS 2258 83 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non-Incendive Systems - For Hazardous Locations - Certified to US Standards

Class I, Division 2, Groups A, B, C, D T4

Ex ic IIC T4 Gc

Class I, Zone 2, AEx ic IIC T4 Gc

-40°C ≤ Tamb ≤ +121°C

Models EX629XYYYYZ and EX630XYYYYZ Series Industrial Triaxial ICP Accelerometer ; non-incendive with entity parameters as shown below; must be installed per installation drawing 59663.



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Type Designation

EX: Intrinsically Safe

6: Product technology

29: Triaxial family

30: Triaxial family

X: Is a letter that signifies family type (any character, no influence to the protection type)

YYY: Is a number that signifies changes to filtering, gain, frequency response, etc. (any character, no influence to the protection type)

Z: Is a letter that signifies family type (any character, no influence to the protection type)

Entity Parameters Connector Version

$U_i / V_{max} = 28 \text{ V}$, $I_i / I_{max} = 120 \text{ mA}$, $P_i / P_{max} = 840 \text{ mW}$, $C_i = 15 \text{ nF}$, $L_i = 0 \text{ uH}$

Entity Parameters Integral Cable Version (maximum 500 ft.)

$U_i / V_{max} = 28 \text{ V}$, $I_i / I_{max} = 120 \text{ mA}$, $P_i / P_{max} = 840 \text{ mW}$, $C_i = 45.5 \text{ nF}$, $L_i = 152.5 \text{ uH}$

Class I, Division 1 or 2, Groups A, B, C, D T4

Ex ia IIC T4 Ga

Class I, Zone 0, AEx ia IIC T4 Ga

$-40^\circ\text{C} \leq T_{amb} \leq +121^\circ\text{C}$

Models EX639XYYYYZ Series Industrial Triaxial ICP Accelerometer; intrinsically safe with entity parameters as shown below; must be installed per installation drawing 66562.

Type Designation

EX: Intrinsically Safe

6: Product technology

39: Triaxial family

X: Is a letter that signifies family type (any character, no influence to the protection type)

YYY: Is a number that signifies changes to filtering, gain, frequency response, etc. (any character, no influence to the protection type)

Z: Is a letter that signifies family type (any character, no influence to the protection type)

Entity Parameters Connector Version

$U_i / V_{max} = 28 \text{ V}$, $I_i / I_{max} = 120 \text{ mA}$, $P_i / P_{max} = 840 \text{ mW}$, $C_i = 6.06 \text{ nF}$, $L_i = 0 \text{ uH}$

Entity Parameters Integral Cable Version (maximum 500 ft.)

$U_i / V_{max} = 28 \text{ V}$, $I_i / I_{max} = 120 \text{ mA}$, $P_i / P_{max} = 840 \text{ mW}$, $C_i = 36.56 \text{ nF}$, $L_i = 152.5 \text{ uH}$



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Conditions of Acceptability:

- 1- The installer shall ensure that the transducer mounting structure is at the same grounding potential as the barrier ground. Total earth loop impedance shall be less than 1Ohm.
- 2- The end user is to ensure appropriate earthing of metallic enclosure upon installation.
- 3- The cable used must have an operating temperature compatible with the environment in which the equipment is installed.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91 (R2001)	General Requirements – Canadian Electrical Code, Part II
C22.2 No. 142-M1987 (R2009)	Process Control Equipment
C22.2 No. 213-M1987 (R2013)	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CAN/CSA-C22.2 No. 60079-0:11	Explosive Atmospheres - Part 0: Equipment - General requirements
CAN/CSA-C22.2 No. 60079-11:14	Explosive Atmospheres – Part 11: Equipment protection by intrinsic safety "i"
UL 916-4 th Edition	Energy Management Equipment
ANSI/ISA-12.12.01-2013	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
ANSI/UL 60079-0:13	Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
ANSI/UL 60079-11:13	Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i"



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
80017956	2020-05-06	Update to CSA certificate and report 2781570 in order to cover the following changes: Update of model EX629XYYYY series accelerometer to have either an integral cable (maximum length 500 feet) or a connector, and an increase of maximum ambient temperature from +80°C to +121°C; Addition of a new model EX630XYYYY series accelerometer that is identical to model EX630XYYYY and only different in Logo and model number; Update of model EX639XYYYY series accelerometer to have either an integral cable (maximum length 500 feet) or a connector; and update of several Descriptive Documents.
000070106254	2017-05-23	Update to report and certificate 2781570 for addition of Model EX639XYYYY Industrial Triaxial ICP Accelerometer for the following marking: Class I, Division 1 or 2, Groups A, B, C, D T4; Ex ia IIC T4 Ga; Class 1, Zone 0, AEx ia T4 Ga; $-40^{\circ}\text{C} \leq T_a \leq +121^{\circ}\text{C}$.
0002781570	2015-07-31	CSA-c-us certification of CS 629XYYY for Class I, Div. 2, groups A through D, Ex ic IIC Gc T4 & AEx ic IIC T4 Gc.