



# Certificate of Compliance

**Certificate:** 1632187

**Master Contract:** 184981

**Project:** 80014642

**Date Issued:** 2019-11-26

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

**Attention:** Carrie Termin



**Issued by:** *Jignesh Dabhi*  
Jignesh Dabhi

## PRODUCTS

**CLASS 2258 04** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations  
**CLASS 2258 84** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations -  
CERTIFIED TO U.S. STANDARDS

**Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div 1:**

**Exia IIC T4:**

**AEx ia IIC T4:**

Models EX64xB0y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per installation Dwg 27534; Temp Code T4 @ Max Ambient 80 Deg C.

Models 9842VCRT Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per installation Dwg 36576; Temp Code T4 @ Max Ambient 80 Deg C.

Models EX64xB1y and EX64xB6y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 306 uH; when installed per installation Dwg 27534; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXTO64xB3y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per installation Dwg 27536; Temp Code T4 @ Max Ambient 80 Deg C.



Models EXTO64xB1y and EXTO64xB6y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 306  $\mu$ H; when installed per installation Dwg 27536; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXRV64xB0y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 121.06  $\mu$ H; when installed per installation Dwg 30538; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXRV64xB1y and EXRV64xB6y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 426  $\mu$ H; when installed per installation Dwg 30538; Temp Code T4 @ Max Ambient 80 Deg C.

Models EX64xB7y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06  $\mu$ H; when installed per installation Dwg 28766; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXTO64xB7y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06  $\mu$ H; when installed per installation Dwg 28767; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXRV64xB7y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06  $\mu$ H; when installed per installation Dwg 29987; Temp Code T4 @ Max Ambient 80 Deg C.

Note: The "x" in the model code may be a 0 to 9, which denotes variations in frequency response range of the sensors. The "y" in the model code may be a 0 to 9, which denotes variations in sensor sensitivity.

Models EX64xA0y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06  $\mu$ H; when installed per installation Dwg 27535; Temp Code T4 @ Max Ambient 80 Deg C.

Models 9942VCRT Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06  $\mu$ H; when installed per installation Dwg 36578; Temp Code T4 @ Max Ambient 80 Deg C.

Models EX64xA1y and EX64xA6y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 306  $\mu$ H; when installed per installation Dwg 27535; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXTO64xA3y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06  $\mu$ H; when installed per installation Dwg 27537; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXTO64xA1y and EXTO64xA6y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 306  $\mu$ H; when installed per installation Dwg 27537; Temp Code T4 @ Max Ambient 80 Deg C.



Models EXRV64xA0y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 121.06 uH; when installed per installation Dwg 30540; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXRV64xA1y and EXRV64xA6y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 426 uH; when installed per installation Dwg 30540; Temp Code T4 @ Max Ambient 80 Deg C.

Models CS64xB9y Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per Dwg 56140; Temp Code T4 @ Max Ambient 80 Deg C.

Note: The "x" in the model code may be a 0 to 9, which denotes variations in frequency response range of the sensors. The "y" in the model code may be a 0 to 9, which denotes variations in sensor sensitivity.

### APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M91	- General Requirements – Canadian Electrical Code, Part II
C22.2 No. 142-M1987 (R2009)	- Process Control Equipment
CAN/CSA-C22.2 No. 157-92 (R2012)	- Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
UL 913 (7 <sup>th</sup> Ed.)	- Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II and III, Division 1, Hazardous Locations
UL 916 (4 <sup>th</sup> Ed.)	- Energy Management Equipment
CAN/CSA-E60079-0:07	- Electrical apparatus for explosive gas atmospheres - Part 0: General Requirements
CAN/CSA-E60079-11:02	- Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic Safety "i"
ANSI/UL 60079-0:05	- Electrical Apparatus for Explosive Gas Atmospheres - Part 0: General Requirements
ANSI/UL 60079-11:07	- Electrical apparatus for Explosive Gas Atmospheres - Part 11: Intrinsic Safety "i"

**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 U.S. STANDARDS

**Ex nL IICT4:**

**AEx nA IICT4:**

**Class I, Div. 2, Groups A, B, C, D:**

Models EX64xB0y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per installation Dwg 27534; Temp Code T4 @ Max Ambient 80 Deg C.



Models 9842VCRT Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per installation Dwg 36576; Temp Code T4 @ Max Ambient 80 Deg C.

Models EX64xB1y and EX64xB6y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 306  $\mu$ H; when installed per installation Dwg 27534; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXTO64xB3y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per installation Dwg 27536; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXTO64xB1y and EXTO64xB6y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 306  $\mu$ H; when installed per installation Dwg 27536; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXRV64xB0y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 121.06 uH; when installed per installation Dwg 30538; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXRV64xB1y and EXRV64xB6y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 426  $\mu$ H; when installed per installation Dwg 30538; Temp Code T4 @ Max Ambient 80 Deg C.

Notes:

1. Sensor case must be bonded to ground according to Section 18-182 of the CEC, Part 1.
2. The "x" in the model code may be a 0 to 9, which denotes variations in frequency response range of the sensors. The "y" in the model code may be a 0 to 9, which denotes variations in sensor sensitivity.

Models EX64xA0y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per installation Dwg 27535; Temp Code T4 @ Max Ambient 80 Deg C.

Models 9942VCRT Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per installation Dwg 36578; Temp Code T4 @ Max Ambient 80 Deg C.

Models EX64xA1y and EX64xA6y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 306  $\mu$ H; when installed per installation Dwg 27535; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXTO64xA3y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per installation Dwg 27537; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXTO64xA1y and EXTO64xA6y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 306  $\mu$ H; when installed per installation Dwg 27537; Temp Code T4 @ Max Ambient 80 Deg C.



Models EXRV64xA0y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 121.06 uH; when installed per installation Dwg 30540; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXRV64xA1y and EXRV64xA6y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 28V,  $I_i$  (I max) = 120mA,  $P_i$  = 1W,  $C_i$  = 61 nF,  $L_i$  = 426  $\mu$ H; when installed per installation Dwg 30540; Temp Code T4 @ Max Ambient 80 Deg C.

Models CS64xB9y Vibration Sensors, input rated 28V dc max, 20mA; non-incendive with entity parameters of:  $U_i$  (V max) = 30V,  $I_i$  (I max) = 100mA,  $P_i$  = 1W,  $C_i$  = 0,  $L_i$  = 1.06 uH; when installed per Dwg 56140; Temp Code T4 @ Max Ambient 80 Deg C.

Notes:

1. For Canadian Installations, sensor case must be bonded to ground according to Section 18-182 of the CEC, Part 1.
2. For US Installations, sensor case must be bonded to ground according to Article 501.16 of the NEC.
3. The "x" in the model code may be a 0 to 9, which denotes variations in frequency response range of the sensors. The "y" in the model code may be a 0 to 9, which denotes variations in sensor sensitivity.

**APPLICABLE REQUIREMENTS**

CAN/CSA-C22.2 No. 0-M91	-	General Requirements – Canadian Electrical Code, Part II
C22.2 No. 142-M1987 (R2009)	-	Process Control Equipment
C22.2 No. 213-M1987 (R2008)	-	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
UL 916 (4 <sup>th</sup> Ed.)	-	Energy Management Equipment
UL 1604 (3 <sup>rd</sup> Ed.)	-	Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations
ANSI/ISA 12.12.01-2000	-	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
CAN/CSA-E60079-15:02	-	Electrical apparatus for explosive gas atmospheres - Part 15: Type of Protection "n"
ANSI/UL 60079-15:02	-	Electrical apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n"

**CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations**

**CLASS 2258 82 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations - CERTIFIED TO U.S. STANDARDS**

**Ex nA IICT4:**

**AEx nA IIC T4:**

**Class I, Div. 2, Groups A, B, C, D:**

Models EX64xB7y Vibration Sensors, input rated 28V dc max, 20mA; suitable for use in Class I, Div. 2 or Class I, Zone 2 locations, when installed per installation Dwg 28766; Temp Code T4 @ Max Ambient 80 Deg C.



Models EXTO64xB7y Vibration Sensors, input rated 28V dc max, 20mA; suitable for use in Class I, Div. 2 or Class I, Zone 2 locations, when installed per installation Dwg 28766; Temp Code T4 @ Max Ambient 80 Deg C.

Models EXRV64xB7y Vibration Sensors, input rated 28V dc max, 20mA; suitable for use in Class I, Div. 2 or Class I, Zone 2 locations, when installed per installation Dwg 28766; Temp Code T4 @ Max Ambient 80 Deg C.

Models CS64xB9y Vibration Sensors, input rated 28V dc max, 20mA; suitable for use in Class I, Div. 2 or Class I, Zone 2 locations, when installed per installation Dwg 56140; Temp Code T4 @ Max Ambient 80 Deg C.

Notes:

1. Sensor must be installed in a suitable enclosure, acceptable to the local inspection authority having jurisdiction.
2. The "x" in the model code may be a 0 to 9, which denotes variations in frequency response range of the sensors. The "y" in the model code may be a 0 to 9, which denotes variations in sensor sensitivity.

**APPLICABLE REQUIREMENTS**

- |                               |   |   |
|-------------------------------|---|---|
| CAN/CSA-C22.2 No. 0-M91       | - | General Requirements – Canadian Electrical Code, Part II  |
| C22.2 No. 142-M1987(R2009)    | - | Process Control Equipment   |
| C22.2 No. 213-M1987(R2008)    | - | Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations   |
| UL 916 (4 <sup>th</sup> Ed.)  | - | Energy Management Equipment   |
| UL 1604 (3 <sup>rd</sup> Ed.) | - | Electrical Equipment for Use in Class I and II, Division 2; Class III Hazardous (Classified) Locations                                    |
| ANSI/ISA 12.12.01-2000        | - | Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations |
| CAN/CSA-E60079-15:02          | - | Electrical apparatus for explosive gas atmospheres - Part 15: Type of Protection "n"  |
| ANSI/UL 60079-15:02           | - | Electrical apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n"  |

**CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations**

**CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - CERTIFIED TO U.S. STANDARDS**

**Ex ia IIC; AEx ia IIC; Class I, Div. 1, Groups A, B, C and D; Class II, Div. 1, Groups E, F and G; Class III; T<sub>amb</sub>: -40C to 121C; Tcode: T3C**

Models EXHT(M)64x (with connector or integral cable), Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe when installed per installation drawing 71991 (sheet 1);



Models EXHTTO(M)64x (with connector or integral cable), Vibration and Temperature Sensors, input rated 28V dc max, 20mA; intrinsically safe when installed per installation drawing 72010 (sheet 1);

Models EXHT(M)64x (with conduit connection), Vibration Sensors, input rated 28V dc max, 20mA; intrinsically safe when installed per installation drawing 71993 (sheet 1);

Models EXHTTO(M)64x (with conduit connection), Vibration and Temperature Sensors, input rated 28V dc max, 20mA; intrinsically safe when installed per installation drawing 72068 (sheet 1);

**Ex ic IIC; AEx ic IIC; Class I Division 2 Groups A, B, C and D; T<sub>amb</sub>: -40C to 121C; Tcode: T3C**

Models EXHT(M)64x (with connector or integral cable), Vibration Sensors, input rated 28V dc max, 20mA; suitable for use in Class I, Div. 2/ Zone 2 (Ex ic) locations when per installation drawing 71991 (sheet 2);

Models EXHTTO(M)64x (with connector or integral cable), Vibration and Temperature Sensors, input rated 28V dc max, 20mA; suitable for use in Class I, Div. 2/ Zone 2(Ex ic) locations when per installation drawing 72010 (sheet 2);

**Notes:**

1. Sensor must be installed in a suitable enclosure, acceptable to the local inspection authority having jurisdiction.
2. The "x" is a series of letters and numbers in the model for different variations including variation in frequency response, top cable entry, side cable entry and other differences not critical to certification.
3. M in the model number is optional and to include Metric threading adapters instead of English threading adapters

**CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations**

**CLASS 2258 82 - PROCESS CONTROL EQUIPMENT – For Hazardous Locations - CERTIFIED TO U.S. STANDARDS**

**Class I Division 2 Groups A, B, C and D; T<sub>amb</sub>: -40C to 121C; Tcode: T3C**

Models EXHT(M)64x (with conduit connection), Vibration Sensors, input rated 28V dc max, 20mA; Suitable for Class I Division 2 when installed per installation drawing 71993 (sheet 2).

Models EXHTTO(M)64x (with conduit connection), Vibration and Temperature Sensors, input rated 28V dc max, 20mA; Suitable for Class I Division 2 when installed per installation drawing 72068 (sheet 2).

1. Sensor must be installed in a suitable enclosure, acceptable to the local inspection authority having jurisdiction.
2. The "x" is a series of letters and numbers in the model for different variations including variation in frequency response, top cable entry, side cable entry and other differences not critical to certification.
3. M in the model number is optional and to include Metric threading adapters instead of English threading adapters



## APPLICABLE REQUIREMENTS

CSA C22.2 No. 61010-1-12/ ANSI/ISA 61010-1 3rd Ed. (R2017)	-	Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements
CSA C22.2 No. 213 2017/ UL 121201 9th Ed.	-	Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
CSA C22.2 No 60079-0:2019	-	Explosive Atmospheres-Part 0: Equipment-General requirements
CSA C22.2 No 60079-11:2014	-	Explosive atmospheres — Part 11: Equipment protection by intrinsic safety “i”
UL 60079-0: 2019		Standard for Safety – Explosive Atmospheres – Part 0: Equipment – General Requirements, Ed. 6
UL 60079-11:2014		Standard for Safety – Explosive Atmospheres – Part 11: Equipment Protection by Intrinsic Safety “I”, Ed. 6

## MARKINGS

The manufacturer is required to apply the following markings:


- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Markings are etched directly into the Sensor enclosure body. The following marking details appear:

### I.S. models

- CSA Monogram with C US Indicator
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation- As per Product Section
- Applicable Temperature Code
- Applicable Ambient temperature range
- For EXHT and EXHTTO series: DC symbol: 
- Certificate # reference (ie. 2005 1632187 X)
- Reference to Installation Drawing





#### Div. 2 Non-Incendive models

- CSA Monogram with C US indicator.
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation: As per Product Section
- Applicable Temperature Code
- Applicable Ambient temperature range
- For EXHT and EXHTTO series: DC symbol “    ” and Reference to Installation Drawing
- Certificate # reference (ie. 2005 1632187 X)

#### Div. 2 Non-arcing models (.....B7x, EXHT and EXHTTO series)

- CSA Monogram with C US indicator.
- Submitter Identification
- Model Number
- Serial Number, Date Code or Month and Year of Manufacture
- Electrical Rating
- Hazardous Location Designation: As per Product Section
- Applicable Temperature Code
- Applicable Ambient temperature range
- For EXHT and EXHTTO series: DC symbol “    ”
- Certificate # reference (ie. 2005 1632187 X)
- Caution: re. Disconnection of circuits (appears on referenced Installation Drawing).

EXHT and EXHTTO series models must be accompanied by documentation containing the following information.

#### General:

Technical specifications, product operation, service and instructions for use.

#### Equipment Ratings:

This includes equipment supply, description of I/O connections, duty cycle and operating environmental conditions.

1. Pollution degree 4;
2. Electrical Ratings: 24VDC, 20mA
3. Temperature (ambient): -40°C to 121°C
4. Hazardous location ratings



## Supplement to Certificate of Compliance

Certificate: 1632187

Master Contract: 184981

*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
80014642	2019-11-26	<p>Evaluation for update of report 1632187 (last update 70051763) to include High Temperature option.</p> <p>Quote assumes that maximum two versions of similar schematics are needed to be assessed. Quote includes one temperature test. Only the new model will be assessed with the latest applicable standards.</p> <p>Any other testing that may be required to accomplish the reassessment will be quoted separately if necessary.</p>
000070051763	2016-03-22	Update to Existing Report Certificate 1632187; Report 2655913. Expansion of the "x" and "y" variable digits.
0002655913	2013-09-26	Update to include new Model CS64xB9y Vibration Sensors.
0002108819	2008-11-26	Update to cover revisions to numerous drawings.
0001920106	2007-06-06	Update to cover minor revisions to circuitry and to related drawings.
0001878614	2007-01-31	Update to cover addition of models 9842VCRT and 9942VCRT.
0001632187	2005-11-03	640 Series Vibration Sensors for Hazardous Locations