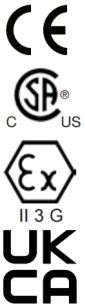


# TA938 Series



VIBRATION ANALYSIS HARDWARE

Nonincendive, CSA North America Class I, Division 2 Approved Dual Output Sensor, Acceleration and Temperature, Side Exit 3 Pin Connector, M8x1.25 Captive Bolt, 100 mV/g, 10 mV/°C, ±10%



## Product Features

CSA North America Class I, Division 2, Groups A, B, C and D; Class II, Division 1, Groups E, F and G; Class III

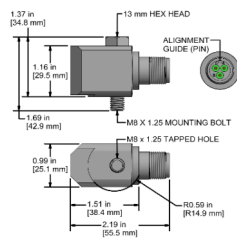
Helps to Detect Bearing Defects and Temperature Changes

- ▶ NOTE: Class I, Division 2 / Ex nA IIC when installed using an approved Zone 2 / Division 2 rated cable in accordance with the CEC or the NEC.
- ▶ Suggested Approved Cabling: CB191 or CB298 Cable and Q3A or Q3N Connectors

### TA938-1A

3 Pin Connector

Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common
C	(+) Temperature Voltage

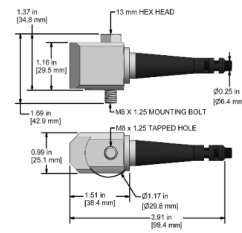


Stock Product

### TA938-2C

CB191 Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire

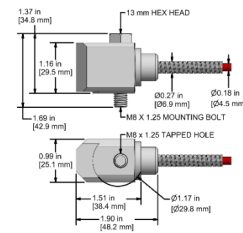


Built To Order

### TA938-3C

CB218 Armored Integral Cable

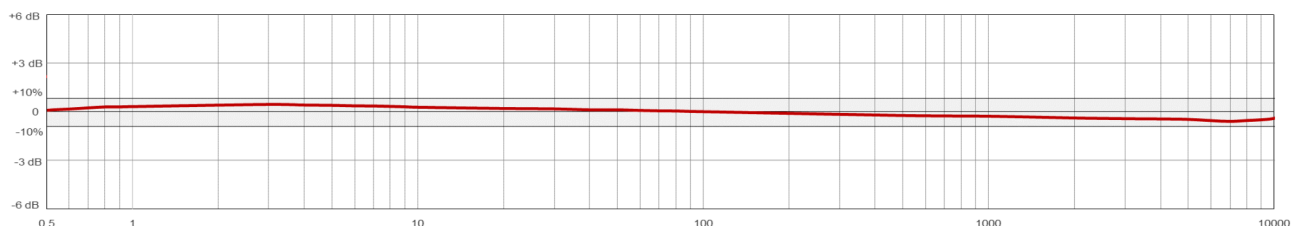
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g	<b>Environmental</b>		
Frequency Response (±3dB)	30-600,000 CPM	0.5-10000 Hz	Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±10%)	120-300,000 CPM	2.0-5000 Hz	Maximum Shock Protection		5,000 g, peak
Dynamic Range		± 50 g, peak	Sealing		Welded, Hermetic
Temperature Measurement Range	36.5 to 212 °F	2.5 to 100 °C	<b>Physical</b>		
Temperature Output		10 mV/°C	Sensing Element		PZT Ceramic
<b>Electrical</b>			Sensing Structure		Shear Mode
Settling Time		<2.5 seconds	Weight	6.3 oz	180 grams
Voltage Source (IEPE)		18-28 VDC	Case Material		316L Stainless Steel
Constant Current Excitation		2-10 mA	Mounting Thread		M8x1.25
Spectral Noise @ 10 Hz		8 µg/√Hz	Connector (Non-Integral)		3 Pin MIL-C-5015
Spectral Noise @ 100 Hz		.82 µg/√Hz	Resonant Frequency	1,260,000 CPM	21000 Hz
Spectral Noise @ 1000 Hz		.3 µg/√Hz	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Output Impedance		<100 ohm	Mounting Hardware Supplied		M8x1.25 Captive Bolt
Bias Output Voltage		10-14 VDC	Calibration Certificate		CA10
Case Isolation		>10 <sup>8</sup> ohm			

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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