

TA938 Series



VIBRATION ANALYSIS HARDWARE

Low Capacitance, Class I, Division 2 / Zone 2 Dual Output Sensor, Acceleration and Temperature, Side Exit 3 Pin Connector, M8 Captive Bolt, 100 mV/g, 10 mV°C, ±10%



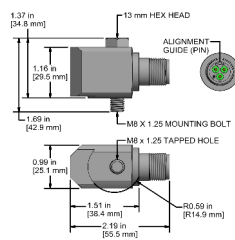
Regulatory Information

Ex nA IIC T3 Gc	Ui = 28 Vdc Ii = 100 mA
AEx nA IIC T3 Gc	Ci = 0µf Li = 51uH Pi = 100 mW
CL I Groups A, B, C, D	CSA 221421
CL II Groups E, F, G; CL III	Sira 15ATEX2152X
CL I, Zone 2	Ex nA IIC T3 Gc
Operating Temperature Code: T3	
Ambient Temperature Range = -40 to 121°C	

TA938-1A

3 Pin Connector

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

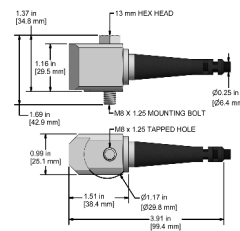


Stock Product

TA938-2C

CB191 Integral Cable

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

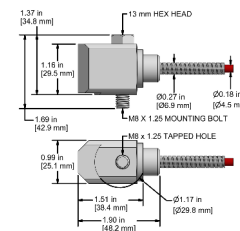


Built To Order

TA938-3C

CB218 Armored Integral Cable

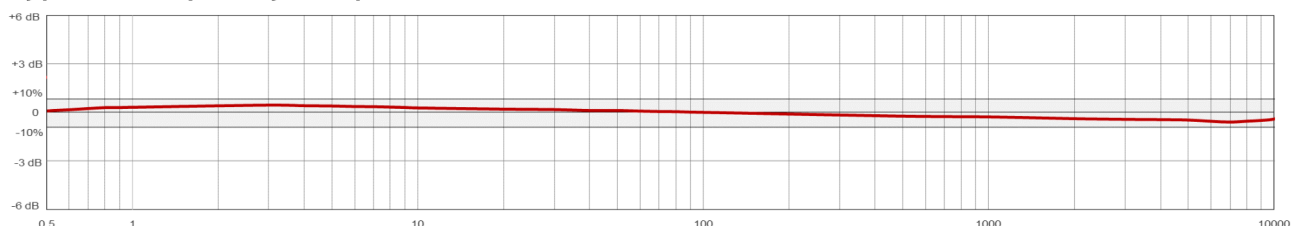
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity (±10%)		100 mV/g	Environmental		
Frequency Response (±3dB)	30-600,000 CPM	0.5-10000 Hz	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	37 to 250°F	3 to 121°C	Physical		
Temperature Output		10 mV/°C	Sensing Element		PZT Ceramic
Electrical			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		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		M8 Captive Bolt
Bias Output Voltage		10-14 VDC	Calibration Certificate		CA10
Case Isolation		>10 ⁸ ohm			

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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