

# TA233 Series

Dual Output Sensor, Temperature & Acceleration, Top Exit 3 Pin Connector, 500 mV/g, 10 mV/°C, ±10%



VIBRATION ANALYSIS HARDWARE



## Product Features

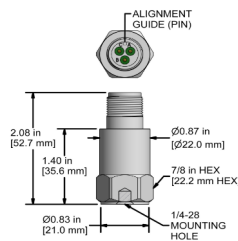
High Performance in a Low Cost Sensor

Helps to Detect Bearing Defects and Temperature Changes

- ▶ Temperature (10 mV/°C) and Acceleration (500 mV/g) Outputs in One Sensor via a Standard 3 Pin MIL Connection
- ▶ Popularly sold with SC300 Series Signal Conditioners with built-in Temperature Output

### TA233-1A 3 Pin Connector

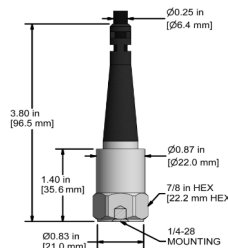
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common
C	(+) Temperature Voltage



Stock Product

### TA233-2A CB105 Integral Cable

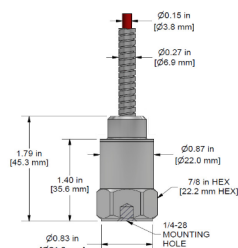
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

### TA233-3A CB218 Amored Integral Cable

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



Built To Order

Specifications	Standard	Metr	Specifications	Standard	Metric
Part Number	TA233	M/ or M8/TA2	<u>Environmental</u>		
Operating Temperature Range				-40 to 250 °F	-40 to 121 °C
Sensitivity (±10%)		500 mV/g			
Frequency Response (±3dB)	6-600,000 CPM	0,1-100 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response (±10%)	36-180,000 CPM	0,6-301 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 10 g, peak *Vsource ≥ 22V, 12Vbias	Sealing		Welded, Hermetic
Temperature Measurement Range	-40 to 250 °F	-40 to °C	SIL Rating		SIL 2
Temperature Output		10 mV/°C	<u>Physical</u>		
Temperature Sensor		750 mV = 25 °C (±1)	Sensing Element		PZT Ceramic
Settling Time		5 Seconds	Sensing Structure		Shear Mode
Voltage Source (IEPE)		18-30 VDC	Weight		3.7 oz / 104 grams
Constant Current Excitation		2-10 mA	Case Material		316L Stainless Steel
Spectral Noise @ 10 Hz		14 µg/√Hz	Mounting Thread		1/4-28 Blind Tapped Hole
			Connector (Non-Integral)		3 Pin MIL-C-5015
			Resonant Frequency		960,000 CPM / 16000 Hz