

TA217 Series

Dual Output Sensor, Temperature & Acceleration, Top Exit 3 Pin Connector, 50 mV/g, 10 mV/°C, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

High Performance in a Low Cost Sensor

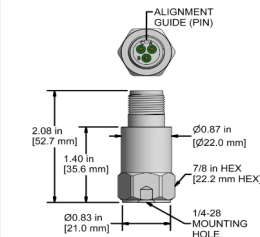
Helps to Detect Bearing Defects and Temperature Changes

- ▶ Temperature (10 mV/°C) and Acceleration (50 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

TA217-1A

3 Pin Connector

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

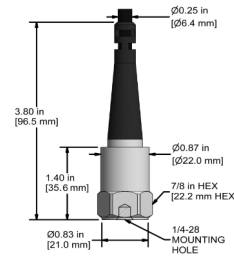


Stock Product

TA217-2A

CB105 Integral Cable

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

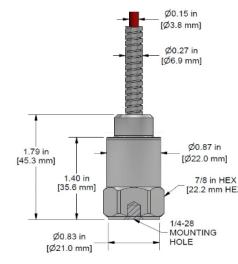


Built To Order

TA217-3A

CB218 Armored Integral Cable

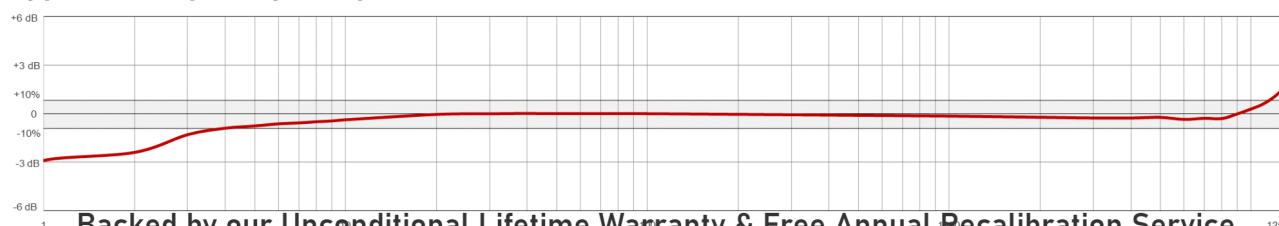
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA217	M/ or M8/TA217	Environmental		
Sensitivity (±10%)	50 mV/g		Operating Temperature Range	-40 to 250 °F	-40 to 121 °C
Frequency Response (±3dB)	60-750,000 CPM	1,0-12500 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	240-540,000 CPM	4,0-9000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 100 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	IP68	
Temperature Measurement Range	-40 to 250 °F	-40 to 121 °C	Physical		
Temperature Output	10 mV/°C		Sensing Element	PZT Ceramic	
Temperature Sensor	750 mV = 25 °C (±1)		Sensing Structure	Shear Mode	
Electrical			Weight	3.2 oz	90 grams
Settling Time	5 seconds		Case Material	316L Stainless Steel	
Voltage Source (IEPE)	18-30 VDC		Mounting Thread	1/4-28 Blind Tapped Hole	
Constant Current Excitation	2-10 mA		Connector (Non-Integral)	3 Pin MIL-C-5015	
Spectral Noise @ 10 Hz	14 µg/√Hz		Resonant Frequency	1,380,000 CPM	23000 Hz
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Spectral Noise @ 1000 Hz	2 µg/√Hz		Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
Output Impedance	<100 ohm		Calibration Certificate	CA10	
Bias Output Voltage	10-14 VDC				
Case Isolation	>10 ⁹ ohm				

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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