

TA256 Series

Low Cost, Low G, Dual Output Sensor, Temperature & Acceleration, Side Exit 3 Pin Connector, 500 mV/g, 10 mV/°C, ±15%



VIBRATION ANALYSIS HARDWARE



Product Features

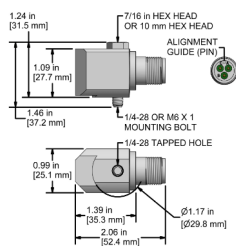
High Performance in a Low Cost Sensor

- ▶ 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

TA256-1A

3 Pin Connector

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

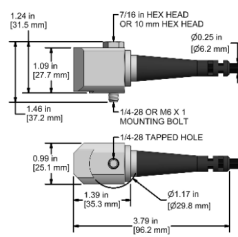


Stock Product

TA256-2A

CB105 Integral Cable

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

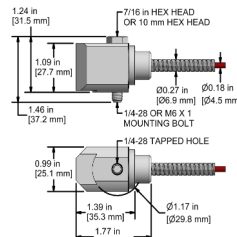


Built To Order

TA256-3A

CB218 Armored Integral Cable

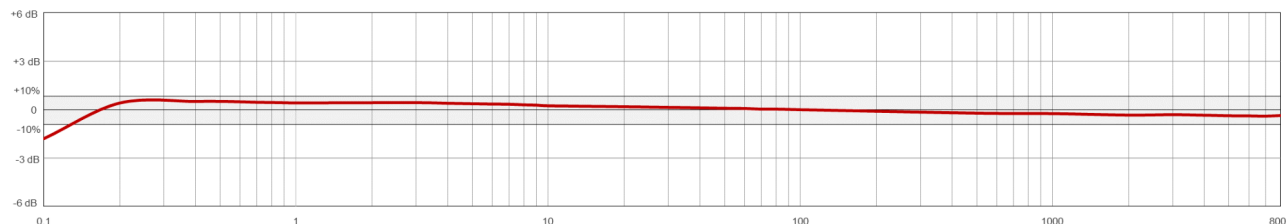
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	TA256		Environmental		
Sensitivity (±15%)	500 mV/g		Operating Temperature Range	-40°F to 250°F	-40°C to 121°C
Frequency Response (±3dB)	6-480,000 CPM	0.1-8000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 10 g, peak *Vsource ≥ 22V, 12Vbias		Electromagnetic Sensitivity	CE	
Temperature Measurement Range	-40°F to 250°F	-40°C to 121°C	Sealing	Welded, Hermetic	
Temperature Output	10 mV/°C		Physical		
Electrical			Sensing Element	PZT Ceramic	
Settling Time	<2.5 seconds		Sensing Structure	Shear Mode	
Voltage Source (IEPE)	18-30 VDC		Weight	5.6 oz	160 grams
Constant Current Excitation	2-10 mA		Case Material	316L Stainless Steel	
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Connector (Non-Integral)	3 Pin MIL-C-5015	
Spectral Noise @ 100 Hz	.2 µg/√Hz		Resonant Frequency	960,000 CPM	16000 Hz
Spectral Noise @ 1000 Hz	.12 µg/√Hz		Mounting Torque	2 to 5 ft. lbs	
Output Impedance	<100 ohm		Mounting Hardware Supplied	1/4-28 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 & Free Annual Recalibration Service

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