

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



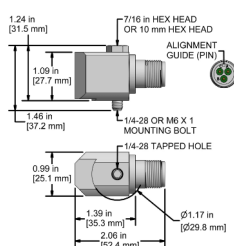
Product Features

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
- ▶ -6N Integral Cable Option Features Food Safe FDA Compliant 21 CFR 177.1330 Polyolefin Heat Shrink

TA256-1A 3 Pin Connector

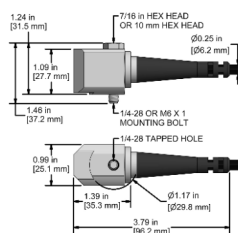
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common
C	(+) Temperature Voltage



Stock Product

TA256-2A CB105 Integral Cable

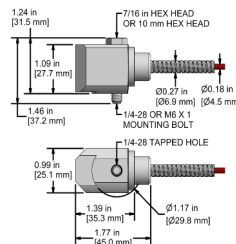
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

TA256-3A CB218 Armored Integral Cable

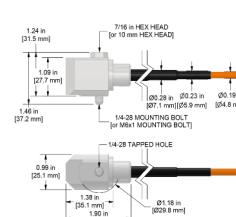
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
White	(+) Temperature Voltage
Shield	Cable Drain Wire



Built To Order

TA256-6N CB119 FEP Jacketed 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 to 250 °F	-40 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 to 250 °F	-40 to 121 °C	Sealing	Welded, Hermetic	
Temperature Output		10 mV/°C	Physical		
Transverse Sensitivity		≤5%	Sensing Element	PZT Ceramic	
Electrical			Sensing Structure	Shear Mode	
Settling Time	<2.5 seconds		Weight	5.6 oz	160 grams
Voltage Source	18-30 VDC		Case Material	316L Stainless Steel	
Constant Current Excitation	2-10 mA		Connector (Non-Integral)	3 Pin MIL-C-5015	
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Resonant Frequency	960,000 CPM	16000 Hz
Spectral Noise @ 100 Hz	.2 µg/√Hz		Mounting Torque	2 to 5 ft. lbs	2.7 to 6.8 Nm
Spectral Noise @ 1000 Hz	.12 µg/√Hz		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Output Impedance	<100 ohm		Calibration Certificate	CA10	
Bias Output Voltage	10-14 VDC				
Case Isolation	>10 ⁸ ohm				

Typical Frequency Response

