

9000A Sensor General Purpose

SPECIFICATIONS

DYNAMIC

Sensitivity, $\pm 5\%$, 25°C	100 mV/g
Acceleration Range	50 g peak
Amplitude Nonlinearity	1%
Frequency Response, nominal:	
$\pm 5\%$	1.2 - 5,000 Hz
$\pm 10\%$	0.9 - 8,000 Hz
$\pm 3\text{dB}$	0.4 - 10,000 Hz
Resonance Frequency	28 kHz
Transverse Sensitivity, max	5% of axial
Temperature Response	See graph

ELECTRICAL

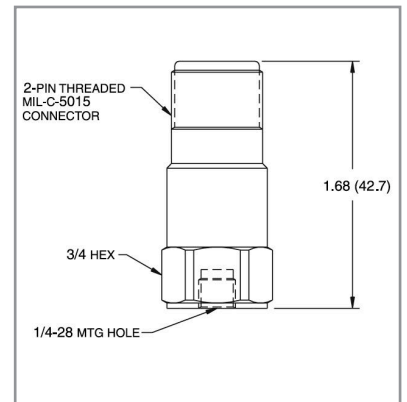
Power Requirement:	
voltage source	18 - 28 VDC
current regulating diode ^{1,2}	2 - 20 mA
Electrical Noise, equiv. g, nominal	
Broadband 1 Hz to 10 kHz	300 μg
Spectral 10 Hz	8 $\mu\text{g}/\text{root Hz}$
100 Hz	3 $\mu\text{g}/\text{root Hz}$
1,000 Hz	2.5 $\mu\text{g}/\text{root Hz}$
Output Impedance, max.	150 Ohms
Bias Output Voltage, nominal:	8 - 12 VDC
Grounding	Case isolated, internally shielded

ENVIRONMENTAL

Temperature Range	-54 to 121°C
Shock Limit	5,000 g peak

PHYSICAL

Weight	48.6 grams
Case Material	stainless steel
Mounting	1/4 - 28 tapped hole
Output Connector	MIL-C-5015 style, 2-pin
Pin A	Signal, Power
Pin B	Common



TYPICAL TEMPERATURE RESPONSE

