

Internally amplified velocity sensor

HA100V

PRELIMINARY

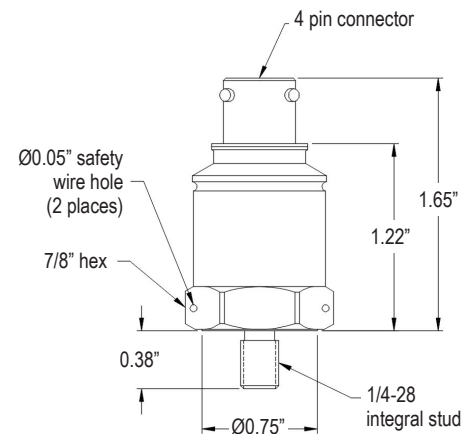
SPECIFICATIONS

Sensitivity, $\pm 10\%$, 25°C		20 mV/in/sec
Velocity range		400 in/sec peak
Amplitude nonlinearity		1%
Frequency response:	$\pm 10\%$	5 - 4,000 Hz
	± 3 dB	2.5 - 7,000 Hz
Resonance frequency, mounted, nominal		30 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	-50°C	-15%
	+120°C	+5%
Power requirement (current draw)		<0.5 mA
Electrical noise, equiv. in/sec, nominal:		
Broadband	2.5 Hz to 25 kHz	700 μ in/sec
Spectral	10 Hz	80 μ in/sec/ $\sqrt{\text{Hz}}$
	100 Hz	8 μ in/sec/ $\sqrt{\text{Hz}}$
	1,000 Hz	1 μ in/sec/ $\sqrt{\text{Hz}}$
Output impedance, max		100 Ω
Bias output voltage, nominal		0 VDC
Grounding		case isolated
Temperature range		-50° to +120°C
Vibration limit		250 g peak
Shock limit		1,000 g peak
Electromagnetic sensitivity, equiv. in/sec		300 μ in/sec/gauss
Base strain sensitivity		0.004 in/sec/ μ strain
Weight		≤ 78 grams
Case material		316L stainless steel
Mounting		1/4-28 x 0.38" integral stud
Output connector		4-pin, MIL-C-26482 style
Mating connector		R4V
Recommended cabling		Four conductor shielded

Accessories supplied: 80360-01 mounting stud; calibration data

Key features

- Manufactured in ISO 9001 facility



Connections	
Function	Connector pin
-9 VDC	A
common	B
+9 VDC	C
signal out	D

Note: Due to continuous process improvement, specifications are subject to change without notice.