Internally amplified velocity sensor

HA100V

PRELIMINARY

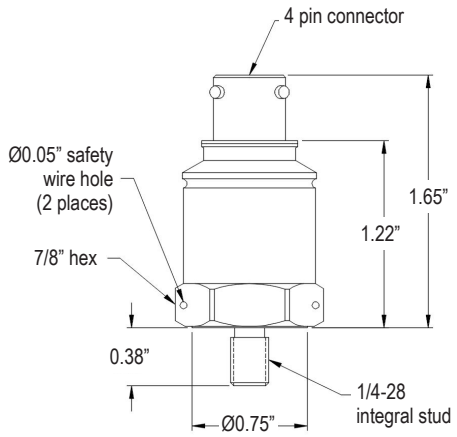
SPECIFICATIONS

Sensitivity, ±10%, 25°C		20 mV/in/sec
Velocity range		400 in/sec peak
Amplitude nonlinearity		1%
Frequency response:	**±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 µin/sec
Spectral	**10 Hz**	80 µin/sec/√Hz
	100 Hz	8 µin/sec/√Hz
	1,000 Hz	1 µin/sec/√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 µin/sec/gauss
Base strain sensitivity		0.004 in/sec/µstrain
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



PRELIMINARY

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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.

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