Internally amplified helicopter accelerometer

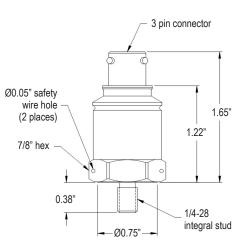


HA100

SPECIFICATIONS

Sensitivity, ±5%, 25°C		40 mV/g
Acceleration range		80 g peak
Amplitude nonlinearity		1%
Frequency response:	±5% ±10% ±3 dB	2 - 5,000 Hz 1 - 9,000 Hz 0.5 - 14,000 Hz
Resonance frequency, mounted, nominal		30 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	–50°C +120°C	–20% +10%
Power requirement: Volta	ige source	9 VDC, 700 μA, max.
Electrical noise, equiv. g, non Broadband 2.5 Ha Spectral	ninal: z to 25 kHz 10 Hz 100 Hz 1,000 Hz	70 μg 5.0 μg/√Hz 0.8 μg/√Hz 0.5 μg/√Hz
Output impedance		100 Ω
Bias output voltage, nominal		4.2 ±0.5 VDC
Grounding		case isolated
Temperature range		–50° to +120°C
Vibration limit		250 g peak
Shock limit		1,000 g peak
Electromagnetic sensitivity, equiv. g		70 μg/gauss
Base strain sensitivity		0.0002 g/µstrain
Weight		≤82 grams
Case material		316L stainless steel
Mounting		1/4-28 x 0.38" integral stud
Output connector		3-pin, MIL-C-26482 style
Mating connector		R4
Recommended cabling		J9T2, two conductor shielded, Tefzel® jacket, 30 pF/ft

Key features



Accessories supplied: 80360-01 mounting stud; calibration data

Connections		
Function	Connector pin	
9 VDC	A	
signal out	В	
common	С	

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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