Internally amplified helicopter accelerometer

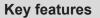


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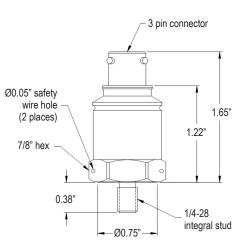
SPECIFICATIONS

Sensitivity, ±5%, 25°C	20 mV/g
Acceleration range	250 g peak
Amplitude nonlinearity	1%
Frequency response: ±5% ±10% ±3 dB	1.0 - 4,000 Hz 0.7 - 6,000 Hz 0.4 - 12,000 Hz
Resonance frequency, mounted, nomina	I 30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -55°C +120°C	-20% +10%
Power requirement: Voltage source ¹ Current regulating diode ²	
Electrical noise, equiv. g, nominal: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	2,000 µg 25 µg/√Hz 11 µg/√Hz 11 µg/√Hz
Output impedance, max	100 Ω
Bias output voltage, nominal	12 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	≤78 grams
Case material	stainless steel
Mounting	1/4-28 x 0.38" integral stud
Output connector	3-pin, MIL-C-26482 style
Mating connector	R4
Recommended cabling	two conductor shielded

Notes: 1 To minimize the possibility signal distortion for high vibration signals, 24 to 30 VDC powering



· Manufactured in ISO 9001 facility



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is recommended. ² The higher level constant current sources should be used when driving long cables (please	Connections	
consult customer service). A maximum current of 6 mA is recommended for operating	Function	Connector pin
temperatures in excess of 100°C.	case	A
ssories supplied: 80360-01 mounting stud; calibration data	common	В

power/signal

temperatures in excess of 100°C. Accessories supplied: 80360-01 mounting stud; calibration data

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

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