General purpose dual output sensor



787T



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SPECIFICATIONS

Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range, VDC > 25 V	80 g peak
Amplitude nonlinearity	1%
Frequency response: ±5% ±10% ±3 dB	1.0 - 5,000 Hz 0.7 - 10,000 Hz 0.5 - 12,000 Hz
Resonance frequency	22 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -25°C +120°C	–10% +10%
Temperature sensor: Output sensitivity Measurement range	10 mV/°C 2° to 120°C
Power requirement: Voltage source ¹ Current regulating diode ^{1,2}	18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. g, nominal: Broadband 2.5 Hz to 25 kHz Spectral 10 Hz 100 Hz 1,000 Hz	700 μg 10 μg/√Hz 5 μg/√Hz 5 μg/√Hz
Output impedance, max	100 Ω
Bias output voltage, nominal	12 VDC
Grounding	case isolated, internally shielded
Temperature range	–50° to +120°C
Vibration limit	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g, max	τ 70 μg/gauss
Sealing	hermetic
Base strain sensitivity, max	0.002 g/µstrain
Sensing element design	PZT ceramic / shear
Weight	145 grams
Case material	316L stainless steel
Mounting	1/4-28 captive screw w/ 0.046" diameter safety wire hole
0.44	0 t MIL O E04E t t
Output connector	3 pin, MIL-C-5015 style
Mating connector	3 pin, MIL-C-5015 style 3 socket, MIL-C-5015 style

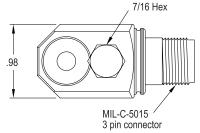
Notes: ¹ To minimize the possibility of signal distortion during high vibration signals, 24 to 28 VDC powering is recommended. The higher level constant current source should be used when driving long cables. ² A maximum current of 6 mA is recommended for operating temperatures in excess of 100°C. **Accessories supplied:** 1/4-28 captive screw; calibration data (level 2)

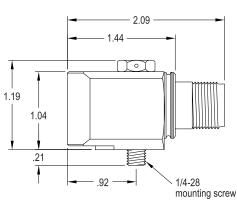




Key features

- Accelerometer with internal temperature sensor
- Available with M12 connector
- · Manufactured in ISO 9001 facility





Connections	
Function	Connector pin
accelerometer power/signal	А
accelerometer and temp sensor common	В
temp sensor signal	С
ground/case	shell

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

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