

Model 6051

Premium Industrial Accelerometer



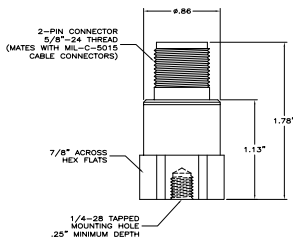
DESCRIPTION AND FEATURES

The industry standard 6000 series accelerometers feature welded hermetically sealed construction, a top 2-Pin MIL style connector, and 1/4-28 mounting stud.

- 100 mV/g
- Hermetically Sealed
- 2-Pin MIL Style Connector

APPLICATIONS

- General Industrial
- Motors/Generators
- Pumps
- Gearboxes
- Rollers
- Experimental
- Fans/Cooling Towers
- Bearing Housings
- Compressors



OPERATING SPECIFICATIONS

Dynamic

Sensitivity @ 100 Hz, $\pm 5\%$ 100 mV/g - 51 mV (m/s²)
 Frequency Range $\pm 5\%$ 5 Hz - 10 kHz
 Frequency Range $\pm 10\%$ 4 Hz - 12 kHz
 Frequency Range ± 3 dB2 Hz - 20 kHz
 Turn-On Time (2% of Final Bias) < 0.5 Seconds
 Amplitude Range ± 75 g-pk
 Mounted Resonance (nominal) 40 kHz
 Transverse Sensitivity (nominal) 5%
 Amplitude Linearity < 1%

Electrical

Noise Broadband 2.5 Hz to 20 kHz 350 μ g (rms)
 Noise Spectral 10 Hz 30 μ g/vHz
 Noise Spectral 100 Hz 8 μ g/vHz
 Noise Spectral 1000 Hz 3 μ g/vHz
 Output Impedance 100 Ω
 Isolation Isolated
 Bias Volts (nominal) 12-14 VDC
 Power Requirements 24-30 VDC
 Current Regulating Diode 2-6 mA cc

Environmental

Temperature Range -40 to 250°F / -40 to 121°C
 Base Strain (Nominal)001 g peak/ μ strain
 Shock Limit 5000 g-pk

Physical

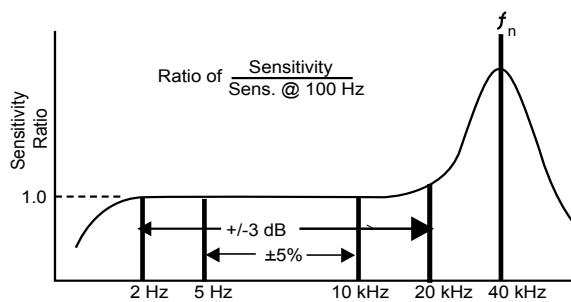
Dimensions 1.78" h x .875" (hex)
 Weight68 grams
 Case Material Type 316L Stainless Steel
 Design Piezoelectric/Compression
 Seal Welded/Hermetic
 Mounting 1/4-28 Stud
 Mounting Torque 35 in-lb (3.9 N-m)

ORDERING INFORMATION AND ACCESSORIES

Model 6051, Mfr. Part No. 9357259

Sensors include

- NIST Traceable Calibration
- 1/4-28 Mounting Stud
- User Manual
- 1-Year Warranty



WORLDWIDE HEADQUARTERS:
 195 Clarksville Rd •
 Princeton Jct, NJ 08550 • USA
 T: +1.609.716.4000 • F: +1.609.716.0706
 E-MAIL: sales.systems@mistrasgroup.com

CANADA T: +1.403.556.1350
CHINA T: +86.10.5877.3672
FRANCE T: +331.498.26040
GERMANY T: +49.040.2000.4025
GREECE T: +30.210.2846.801

HOLLAND T: +31.010.245.0325
INDIA T: +91.22.2586.2444
JAPAN T: +81.33.498.3570
MIDDLE EAST T: +44(0)1954.231.612
RUSSIA T: +7495.789.4549

SCANDINAVIA T: +46(0)31.252040
S. AMERICA T: +55.11.3082.5111
UK T: +44(0)1954.231.612