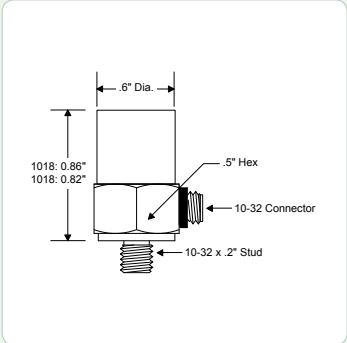


Models 1018/1019

Premium 10 mV/g Industrial Accelerometer



DESCRIPTION AND FEATURES

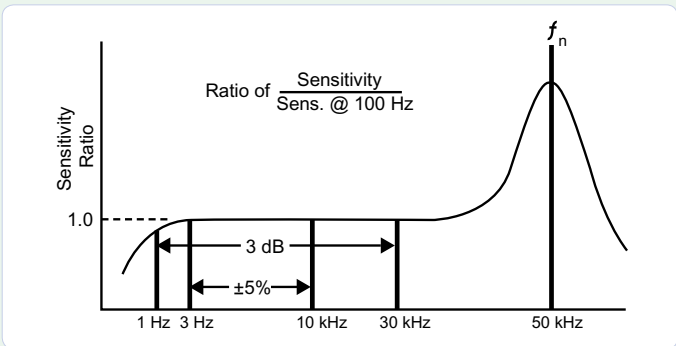
This general purpose sensor series is ideal for laboratory shaker testing, high frequency measurements and production screening. Its features include high frequency and low noise performance.

Models are available in IsoShield (1018) and case ground (1019) versions. Sensors include a 10-32 x .2" mounting stud; integral on 1018 versions, and removable on 1019 versions.

- 10 mV/g
- Compact Size
- Broad Frequency Range

APPLICATIONS

- Industrial
- Experimental
- Motors/Generators
- Rollers
- Lab Shakers
- Compressors
- Gears/Bearings



OPERATING SPECIFICATIONS

Dynamic

Sensitivity @ 100 Hz, ± 5%	10 mV/g - 1.02 mV/(m/s ²)
Frequency Range ± 5%	.3 Hz - 10 kHz
Frequency Range ± 10%	.2 Hz - 12 kHz
Frequency Range ± 3 dB	.1 Hz - 30 kHz
Turn-On Time	< 5 Seconds
Amplitude Range	± 500 g
Mounted Resonance	> 50 kHz
Transverse Sensitivity	< 5%
Amplitude Linearity	< 2%

Electrical

Noise Broadband 2.5 Hz to 25 kHz	1500 µg (rms)
Noise Spectral 10 Hz	100 µg/√Hz
Noise Spectral 100 Hz	25 µg/√Hz
Noise Spectral 1000 Hz	10 µg/√Hz
Output Impedance (nominal)	< 1000 Ω
Isolation 1018	Isolated, > 100 Meg Ω
Isolation 1019	Case Grounded
Bias Volts (nominal)	7 VDC
Power Requirements	15-30 VDC
Current Regulating Diode	2-6 mA cc

Environmental

Temperature Range	-40 to 250°F / -40 to 121°C
Base Strain	0.003 g peak/µstrain
Thermal Shock	3 g/°C
Shock Limit	5,000 g

Physical

Dimensions 1018	0.86" h x .5" hex (2.2 x 1.3 cm)
Dimensions 1019	0.82" h x .5" hex (2.1 x 1.3 cm)
Weight	0.56 oz / 16 grams
Case Material	303 Stainless Steel
Design	Compression
Seal	Splashproof Epoxy
Mounting 1018	10-32 Integral Stud
Mounting 1019	10-32 Removable Stud
Mounting Torque	20 in-lb (2.2 N-m)
Connector	Side 10-32

ORDERING INFORMATION AND ACCESSORIES

Model 1018 (Isolated, Integral Stud), Mfr. Part No. 9353173
 Model 1019 (Case Gnd, Removable Stud),
 Mfr. Part No. 9353174

Sensors include

- NIST Traceable Calibration
- Mounting Stud
- User Manual and 1-Year Warranty

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