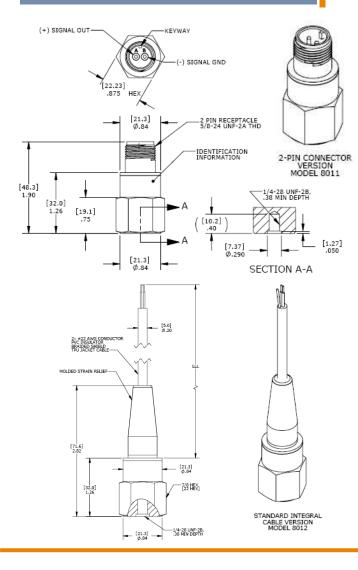




(€

RoHS

dimensions



MODEL 8011-01 & 8012-01 ACCELEROMETER

SPECIFICATIONS

- IEPE Accelerometer
- 16kHz Bandwidth
- -55°C to +125°C Operating Range
- Top Exit Connector or Integral Cable

The Model 8011-01 & 8012-01 are internally shielded rugged IEPE accelerometers designed for harsh environments. The accelerometers are available in $\pm 10g$, $\pm 80g \& \pm 500g$ dynamic ranges and have a flat bandwidth up to greater than 16kHz. The model 8011-01 features a top exit MIL-C-5015 connector while the model 8012-01 features an integral cable. The units are hermetically sealed and are designed to operating in temperature ranges from - 55° C to +125°C.

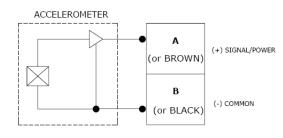
FEATURES

4

- ±10g, ±80g & ±500g Dynamic Ranges
- Wide bandwidth up to 16kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded
- Annular Shear Mode
- Reverse Wiring Protection
- Stable Temperature Response

APPLICATIONS

- General Purpose
- Machine Monitoring
- Industrial Applications
- Harsh Environments
- Gearbox Monitoring

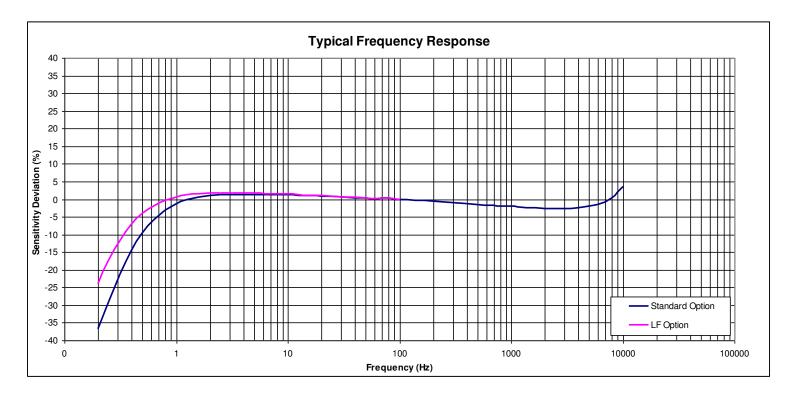


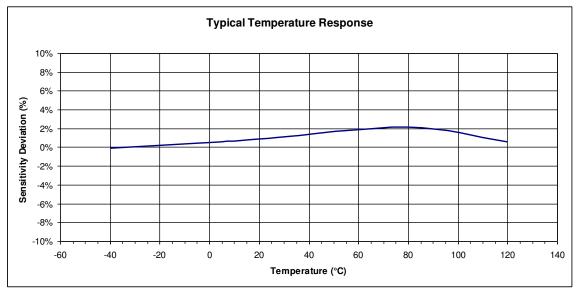
PERFORMANCE SPECIFICATIONS

All values are typical at $+24^{\circ}$ C, 80Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)		±80 100 1-10000 0.5-16000 32000 ±1 <5 5000	±500 10 1-10000 0.5-18000 42000 ±1 <5 5000	Notes ±10% (±5% Option) ±10% ±3dB	
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Output Impedance (Ω) Insulation Resistance (M Ω) Residual Noise (g RMS) Warm-up Time (sec) Grounding	0.00005 <1	18 to 30 2 to 10 8 to 12 <100 >100 0.0001 <1 ed, Internally Shi	18 to 30 2 to 10 8 to 12 <100 >100 0.0003 <1 elded	See Note 1 Room Temperature @100Vdc	
ENVIRONMENTAL Temperature Response (% Operating Temperature (°C Storage Temperature (°C)		cal temperature	response on following page)		
PHYSICALSensing ElementCeramic (shear mode)Case MaterialStainless SteelWeight (grams)93Mounting Torque24 lb-in (2.7 N-m) ¹ For full dynamic range a minimum compliance voltage of 24Vdc is recommended ² LF option offers a low frequency response to 0.1Hz ³ Contact factory for Hazardous Area Approval options					
Calibration supplied:	CS-FREQ-0100	100 NIST Traceable Amplitude Calibration from 20Hz to ±10% Frequency Response Limit			
Supplied accessories:	AC-A03663	1/4-28 to 1/4-28 mounting stud			
Optional accessories:	316A-XXX 318A-XXX AC-D03664 AC-D03665	Cable Assembly, Straight (XXX designates length in inches, 10ft standard) Cable Assembly, 90 Degrees (XXX designates length in inches, 10ft standard) ¹ /4-28 to M5 mounting stud ¹ /4-28 to M6 mounting stud			

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

801XLF-01-GGG

Т T

1 Range (080 is 80g)

Low frequency option, otherwise leave blank

Electrical Connection Option (1 for 2-pin connector, 2 for integral cable)

Example: 8011-01-080

Model 8011-01, 2-pin connector, 80g range

STANDARD CONFIGURATIONS

Part Number	Electrical Connection	Range	Cable Length
8011LF-01-010	Connector	10g	Not Applicable
8011-01-080	Connector	80g	Not Applicable
8011-01-500	Connector	500g	Not Applicable
8012LF-01-010-12	20 Integral Cable	10g	10 Feet
8012LF-01-010-24	10 Integral Cable	10g	20 Feet
8012LF-01-010-36	50 Integral Cable	10g	30 Feet
8012-01-080-120	Integral Cable	80g	10 Feet
8012-01-080-240	Integral Cable	80g	20 Feet
8012-01-080-360	Integral Cable	80g	30 Feet
8012-01-500-120	Integral Cable	500g	10 Feet
8012-01-500-240	Integral Cable	500g	20 Feet
8012-01-500-360	Integral Cable	500g	30 Feet

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