Model 8011-01 & 8012-01 Accelerometer

EMI Shielded Industrial 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 accelerometers are available in ±10g, ±80g &

FEATURES

- ±10g, ±80g & ±500g Dynamic Ranges
- Wide bandwidth up to 16kHz

designed for harsh environments. The

±500g dynamic ranges and have a flat

8011-01 features a top exit MIL-C-5015

bandwidth up to greater than 16kHz. The model

connector while the model 8012-01 features an

integral cable. The units are hermetically sealed

and are designed to operating in temperature

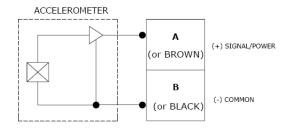
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded •
- Annular Shear Mode .

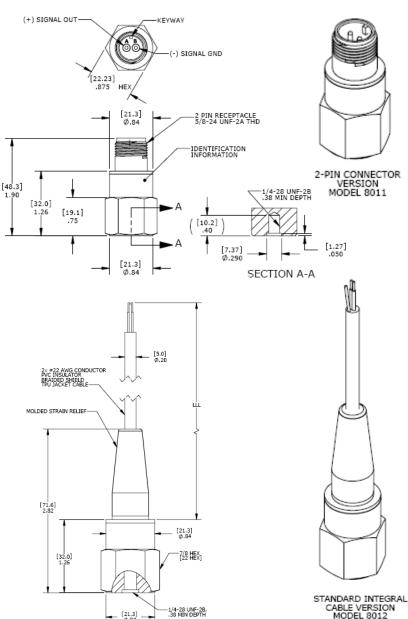
ranges from -55°C to +125°C.

- **Reverse Wiring Protection** •
- Stable Temperature Response

APPLICATIONS

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





32 Journey Ste. 150 Aliso Viejo, CA 92656

[21.3] Ø.84

1/4-28 UNF-28, .38 MIN DEPTH

08/22/2012





dimensions



Model 8011-01 & 8012-01 Accelerometer

performance specifications

All values are typical at +24°C, 100Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) ² Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±10 500 1-4000 0.5-7000 28000 ±1 <5 5000	±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 (MΩ) Residual Noise (g RMS) Warm-up Time (sec) Grounding	18 to 30 2 to 10 8 to 12 <100 >100 0.00005 <1 Case Isolated	18 to 30 2 to 10 8 to 12 <100 >100 0.0001 <1 , Internally Shield	18 to 30 2 to 10 8 to 12 <100 >100 0.0003 <1 ided	See Note 1 Room Temperature @100Vdc
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	±5 (see typical temperature response on following page) -55 to +125 -55 to +125			
PHYSICAL Sensing Element Case Material Weight (grams) Mounting Torque ¹ For full dynamic range a minimum	Ceramic (shear mode) Stainless Steel 93 24 Ib-in (2.7 N-m) num 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-F	REQ-0100 N	0 NIST Traceable Amplitude Calibration from 20Hz to ±10% Frequency Response Limit		
Supplied accessories: AC-A	03663 ½	1/4-28 to 1/4-28 mounting stud		
Optional accessories: 316-> 318-> AC-D	KXX C		Straight (XXX designates length in inches, 10ft standa 00 Degrees (XXX designates length in inches, 10ft sta ing stud	

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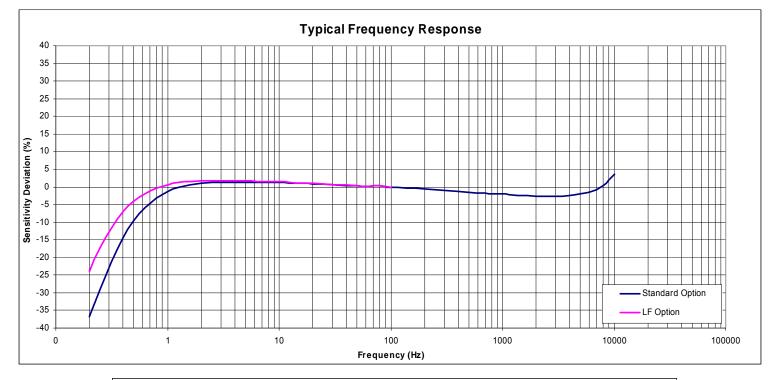
1/4-28 to M6 mounting stud

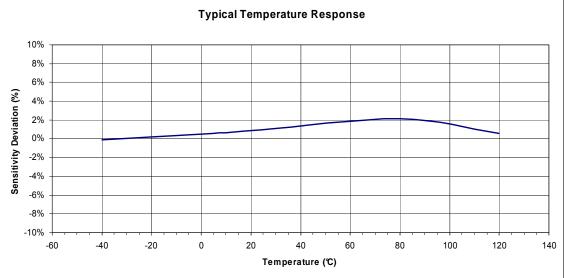
AC-D03665



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performance specifications





ordering info



801XLF-01-GGG

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- - _____ 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