Model 8711-01 Accelerometer

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

The Model 8711-01

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 8711-01 features a top exit MIL-C-5015 connector. The units are hermetically sealed and are designed to operating in temperature ranges from -55°C to 125°C.

dimensions

KEYWAY

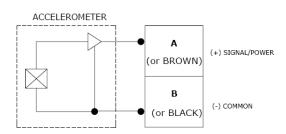
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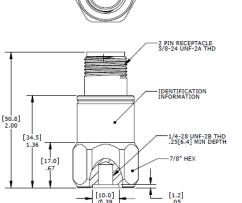
- ±10g, ±80g & ±500g Dynamic Ranges
- Wide bandwidth up to 16kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded
- Annular Shear Mode
- Reverse Wiring Protection
- Stable Temperature Response

APPLICATIONS

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



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measurement s P E C I A L T I E S™



Model 8711-01 Accelerometer

AC-D03665

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 1-8000 0.5-10000 30000 ±1 <5 5000	±80 100 1-10000 0.4-16000 32000 ±1 <5 5000	±500 10 1-10000 0.4-16000 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 12 <100 >100 0.0001 <1 Case Isolated	18 to 30 2 to 10 12 <100 >100 0.0001 <1 I, Internally Shield	18 to 30 2 to 10 12 <100 >100 0.0003 <1 Ied	See Note 1 ±2 @100Vdc
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	±10 (see typical temperature response on following page) -55 to +125 -55 to +125			
PHYSICAL Sensing Element Case Material Weight (grams) Mounting Torque	Ceramic (shear mode) Stainless Steel 80 24 Ib-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-FF	REQ-0100 N	NIST Traceable Amplitude Calibration from 20Hz to ±10% Frequency Response Limit		
Supplied accessories: AC-AC	03663 ½	1/4-28 to 1/4-28 mounting stud		
Optional accessories: 316-X 318-X AC-D0	XX C		Straight (XXX designates length in inches, 10ft standa 00 Degrees (XXX designates length in inches, 10ft sta ing stud	

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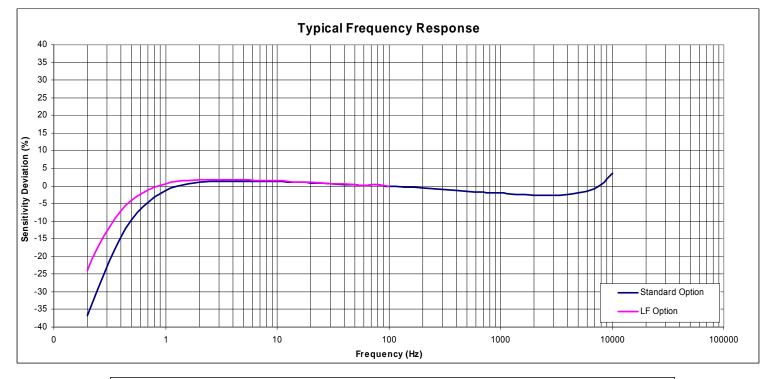
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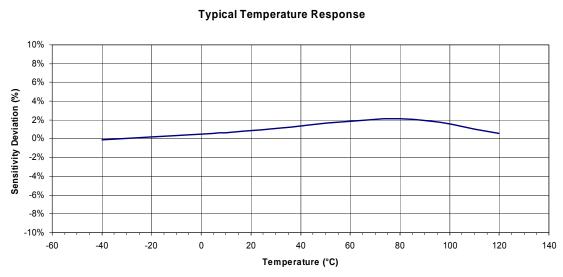
1/4-28 to M6 mounting stud



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ordering info

