Model 8811-01 Accelerometer

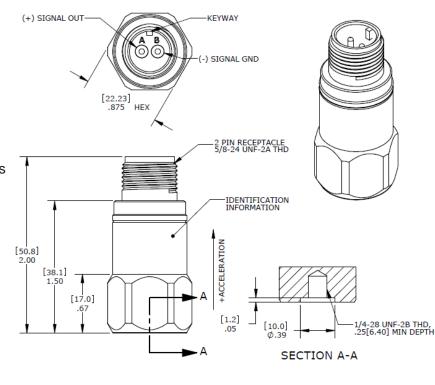
Industrial IEPE Accelerometer Lightning Protected to ±4kV -55°C to +120°C Operating Range **Top Exit Connector**

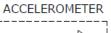
The Model 8811-01 are internally shielded rugged IEPE accelerometers with custom lightning protection up to ±4kV designed for harsh industrial condition monitoring where accelerometers could be exposed to lightning. The accelerometers are available in ±5g to ±80g dynamic ranges and have a flat bandwidth up to greater than 10kHz. The model 8811-01 accelerometer features a top exit MIL-C-5015 connector and is designed to operate in temperature ranges from -55°C to +120°C.

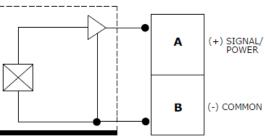


measureme

dimensions







FEATURES

- ±5g, ±10g, ±20g & ±80g Dynamic Ranges •
- Wide bandwidth up to >10kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded •
- Annular Shear Mode •
- **Reverse Wiring Protection** •
- Lightning Protection

APPLICATIONS

- Wind Tower Installations
- Machine Monitoring •
- Industrial Applications •
- Harsh Environments •
- Gearbox Monitoring





Model 8811-01 Accelerometer

performance specifications

All values are typical at +24°C, 80Hz 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.

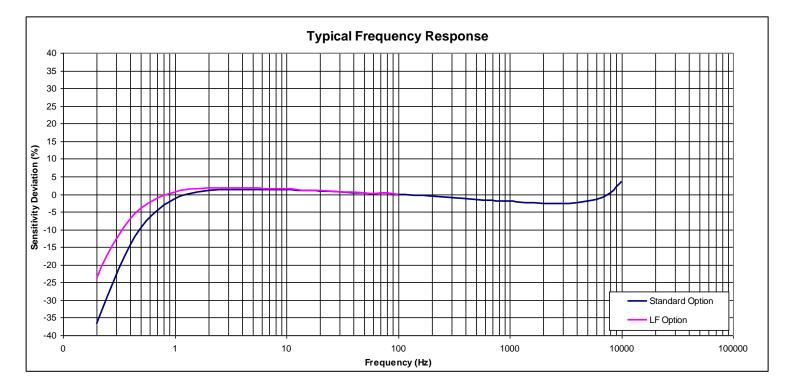
| Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS) Base Strain Sensitivity (g/µstr Weight (grams) | ±5 1000 0.3-4000 0.1-10000 20000 ±1 <5 2000 0.00010 rain) <0.0002 105 | ±10 500 0.3-4000 0.1-10000 20000 ±1 <5 2000 0.00015 <0.0002 105 | ±20 250 1-7000 0.5-13000 32000 ±1 <5 5000 0.00025 <0.0002 88 | ±80 100 1-7000 0.5-13000 32000 ±1 <5 5000 0.00040 <0.0002 88 | Notes ±10% ±5% ±3dB |
|--|---|--|--|--|--------------------------------|
| ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Output Impedance (Ω) Dielectric Strength (Vac) Warm-up Time (sec) Grounding | 18 to 30 2 to 10 10 to 13 <100 ±4000 <5 Case Isola | ted, Internally Shie | lded | | See Note 1 Room Temperature |
| ENVIRONMENTALTemperature Response (%)See typical temperature response on following pageOperating Temperature (°C)-55 to +120Storage Temperature (°C)-55 to +120HumidityHermetically Sealed, IP67 | | | | | |
| PHYSICAL Sensing Element Ceramic (shear mode) Case Material Stainless Steel Mounting Torque 24 lb-in (2.7 N-m) ¹ For full dynamic range a minimum compliance voltage of 24Vdc is recommended | | | | | |
| Calibration supplied: | CS-SENS-0100 | ENS-0100 NIST Traceable Amplitude Calibration at 80Hz | | | |
| Supplied accessories: | AC-A03663 | 1/2-28 to 1/2-28 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) ¼-28 to M5 mounting stud ¼-28 to M6 mounting stud | | | |

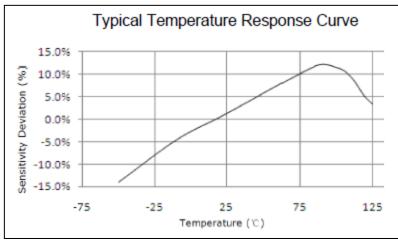
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Model 8811-01 Accelerometer

performance specifications





ordering info



8811LF-01-GGG

I_____ Range (080 is 80g) _____ Low frequency, required for 5g and 10g ranges

Standard model numbers: 8811LF-01-005 8811LF-01-010 8811-01-020 8811-01-080 北京赛斯维测控技术有限公司 北京市朝阳区望京西路48号 金隅国际D座302 电话: +86 010 8477 5646 传真: +86 010 5894 9029 邮箱: <u>sales@sensorway.cn</u> http://www.sensorway.cn

Model 8811-01 Rev A

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