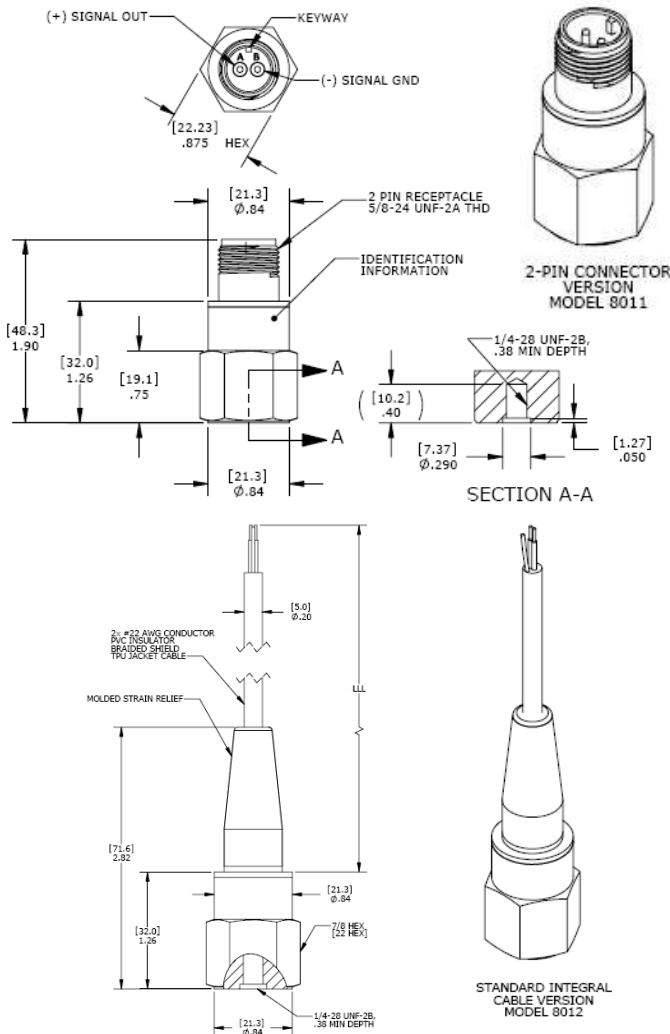


# MODEL 8011-01 & 8012-01 ACCELEROMETER



## dimensions



## SPECIFICATIONS

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

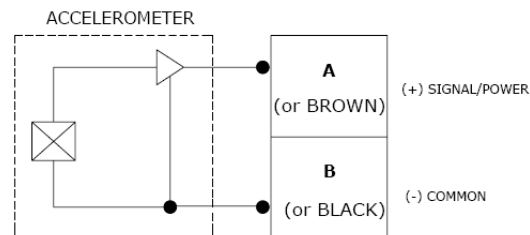
The Model 8011-01 & 8012-01 are internally shielded rugged IEPE accelerometers designed for harsh environments. The accelerometers are available in  $\pm 10g$ ,  $\pm 80g$  &  $\pm 500g$  dynamic ranges and have a flat bandwidth up to greater than 16kHz. The model 8011-01 features a top exit MIL-C-5015 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

- ◆  $\pm 10g$ ,  $\pm 80g$  &  $\pm 500g$  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°C, 80Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters				Notes
<b>DYNAMIC</b>				
Range (g)	±10	±80	±500	
Sensitivity (mV/g)	500	100	10	±10% (±5% Option)
Frequency Response (Hz)	1-4000	1-10000	1-10000	±10%
Frequency Response (Hz) <sup>2</sup>	0.5-7000	0.5-16000	0.5-18000	±3dB
Natural Frequency (Hz)	28000	32000	42000	
Non-Linearity (%FSO)	±1	±1	±1	
Transverse Sensitivity (%)	<5	<5	<5	
Shock Limit (g)	5000	5000	5000	

<b>ELECTRICAL</b>				
Compliance Voltage (Vdc)	18 to 30	18 to 30	18 to 30	See Note 1
Excitation Current (mA)	2 to 10	2 to 10	2 to 10	
Bias Voltage (Vdc)	8 to 12	8 to 12	8 to 12	Room Temperature
Output Impedance (Ω)	<100	<100	<100	
Insulation Resistance (MΩ)	>100	>100	>100	@100Vdc
Residual Noise (g RMS)	0.00005	0.0001	0.0003	
Warm-up Time (sec)	<1	<1	<1	
Grounding	Case Isolated, Internally Shielded			

<b>ENVIRONMENTAL</b>	
Temperature Response (%)	±5 (see typical temperature response on following page)
Operating Temperature (°C)	-55 to +125
Storage Temperature (°C)	-55 to +125

<b>PHYSICAL</b>	
Sensing Element	Ceramic (shear mode)
Case Material	Stainless Steel
Weight (grams)	93
Mounting Torque	24 lb-in (2.7 N-m)

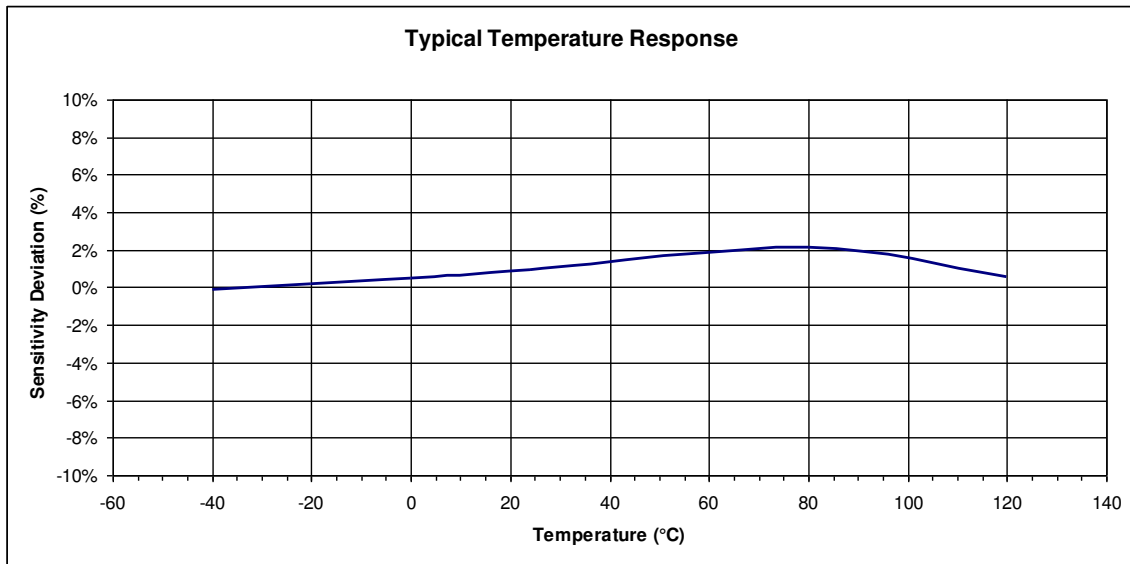
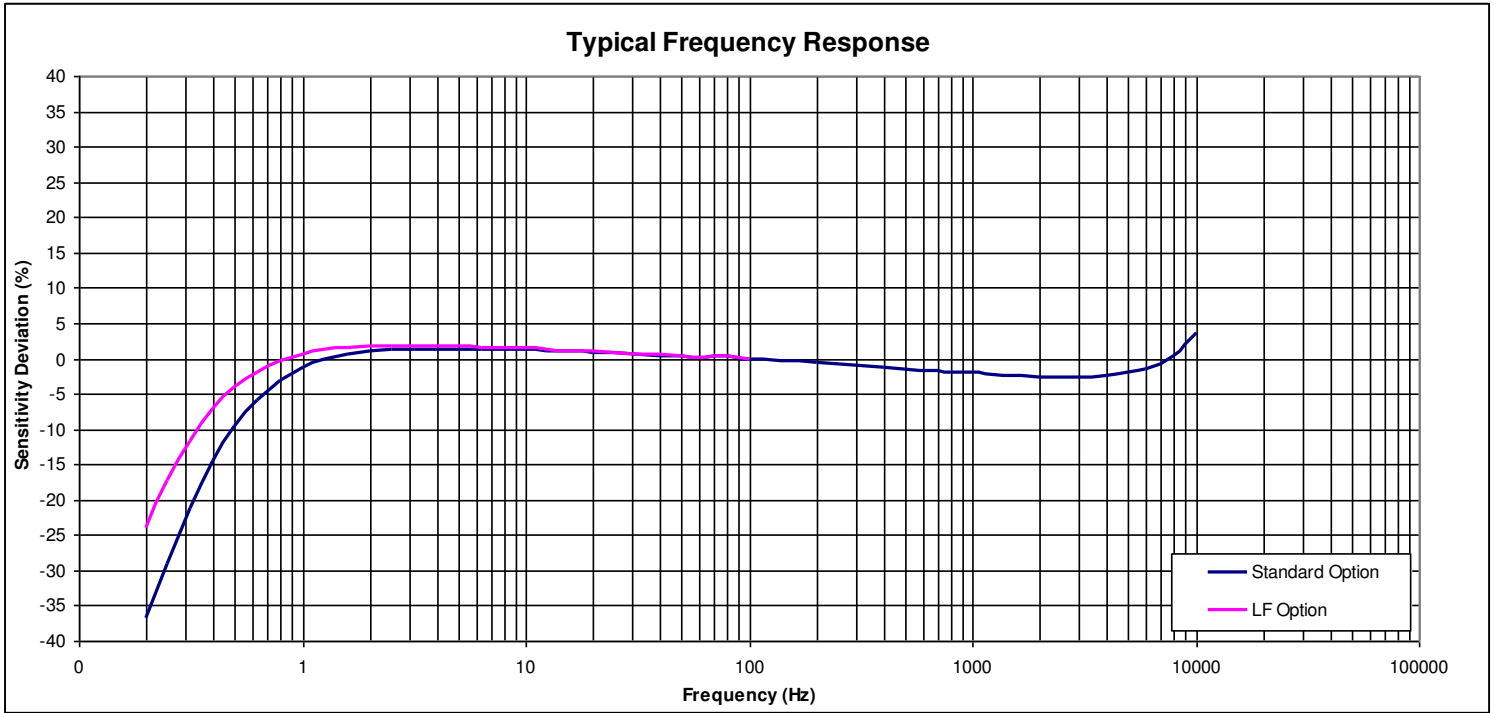
<sup>1</sup> For full dynamic range a minimum compliance voltage of 24Vdc is recommended

<sup>2</sup> LF option offers a low frequency response to 0.1Hz

<sup>3</sup> Contact factory for Hazardous Area Approval options

<b>Calibration supplied:</b>	CS-FREQ-0100	NIST Traceable Amplitude Calibration from 20Hz to ±10% Frequency Response Limit
<b>Supplied accessories:</b>	AC-A03663	¼-28 to ¼-28 mounting stud
<b>Optional accessories:</b>	316A-XXX	Cable Assembly, Straight (XXX designates length in inches, 10ft standard)
	318A-XXX	Cable Assembly, 90 Degrees (XXX designates length in inches, 10ft standard)
	AC-D03664	¼-28 to M5 mounting stud
	AC-D03665	¼-28 to M6 mounting stud

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**ORDERING INFORMATION**

PART NUMBERING Model Number+Range

801XLF-01-GGG

| | | 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-01-010-120	Integral Cable	10g	10 Feet
8012LF-01-010-240	Integral Cable	10g	20 Feet
8012LF-01-010-360	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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本 社：〒124-0023 東京都葛飾区東新小岩3丁目9番6号 TEL: (03) 3695-5431 / FAX: (03) 3695-5698  
 大阪支店：〒530-0054 大阪市北区南森町2-2-9(南森町八千代ビル7F) TEL: (06) 6361-4831 / FAX: (06) 6361-9360  
 e-mail: sales-tokyo@krone.co.jp URL: https://www.krone.co.jp

TE.com/sensorsolutions

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