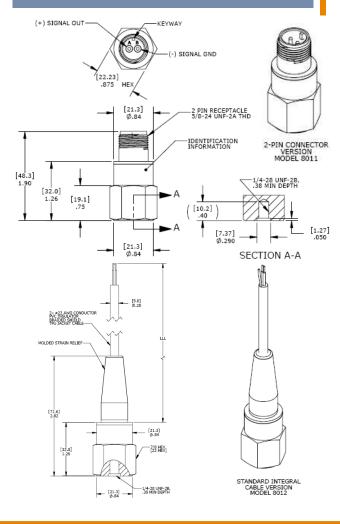




# ROHS (E

## DIMENSIONS



## MODEL 801X-AR/-AP ACCELEROMETER

## SPECIFICATIONS

- 4-20mA Loop Power
- True RMS or Peak Output
- -40°C to +85°C Operating Range
- Top Exit Connector or Integral Cable

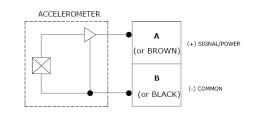
**The Model 8011 & 8012** are internally shielded rugged 4-20mA accelerometers. The accelerometers are available in ranges from  $\pm 5g$  to  $\pm 50g$ , in either RMS or Peak acceleration output options. The model 8011 features a top exit MIL-C-5015 connector while the model 8012 features an integral cable. The units are hermetically sealed and are designed for operating in temperature ranges from -40°C to +85°C.

## FEATURES

- ±5g to ±50g Dynamic Range
- 10-5000Hz Bandwidth
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded
- Annular Shear Mode
- Reverse Wiring Protection
- Stable Temperature Response
- 2-Pin MIL-C-5015 Connector

## **APPLICATIONS**

- General Purpose
- Machine Monitoring
- Rotary Compressors
- Motors and Pumps
- Rotating Machinery



## PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 100Hz and 15Vdc 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 <b>DYNAMIC</b> Range (g Peak or RMS)	±5	±10	±20	±50	Notes
Output (mA) Frequency Response (cpm) Frequency Response (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	4 to 20 600-300000 10-5000 ±1 <5 5000	4 to 20 600-300000 10-5000 ±1 <5 5000	4 to 20 600-300000 10-5000 ±1 <5 5000	4 to 20 600-300000 10-5000 ±1 <5 5000	±10% ±10%
<b>ELECTRICAL</b> Excitation Voltage (Vdc) Loop Resistance (Ohms) Turn on Time (sec) Grounding	12 to 30 900 max <10 Case Isolate	ed, Internally Shield	led		See Note 1
<b>ENVIRONMENTAL</b> Operating Temperature (°C) Storage Temperature (°C)	) -40 to +85 -40 to +85				
<b>PHYSICAL</b> Sensing Element Case Material Weight (grams) Mounting Torque	Ceramic (shear mode) Stainless Steel 93 24 Ib-in (2.7 N-m)				
Calibration supplied:	CS-FREQ-0100	NIST Traceable	Amplitude Calibrat	tion from 20Hz to $\pm 1$	0% Frequency Response Limit
Supplied accessories:	AC-A03663	1⁄4-28 to 1⁄4-28 mc	ounting stud		
Optional accessories:	316-XXX 318-XXX AC-D03664 AC-D03665 AC-A04209	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 Magnetic Mounting Adaptor			

Note 1

Maximum Loop Resistance = (Excitation Voltage - 12Vdc) / 20mA

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## **ORDERING INFORMATION**

PART NUMBERING Model Number+Output Type+Range+Cable Length (if required)

#### 801X-ZZ-GGG-CCC

- I I I I\_Cable length (120 is 120 inches)
  - I I Range (050 is 50g)
    - Range Type (AR is RMS Acceleration)
      - Electrical Connection Option (1 for 2-pin connector, 2 for integral cable)

#### Example: 8011-AR-050

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Model 8011, 2-pin connector, RMS acceleration output, 50g range

-ZZ	
AR =	RMS
AP =	Peak

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