Model 61 Accelerometer

DC Response Durable Cable Small Package

Reliable Performance

DESCRIPTION

The Model 61 accelerometer is based on an advanced piezoresistive MEMS sensing element which offers exceptional dynamic range and stability. This unit features a full bridge output configuration with a temperature range from -20°C to 85°C. This unit exhibits superior shock survivability and a flat amplitude/phase response up to 3kHz.



FEATURES

- ◆ 2nd GEN MEMS Sensing Element
- → 750 g Full Scale Range
- ◆ 2-10 Vdc Excitation
- ♦ <± 25 mV Zero Offset
 </p>
- ♦ 1% Transverse Sensitivity Available

APPLICATIONS

- ♦ In-Dummy
 - Head
 - Thorax
 - Pelvic

赛斯维测控技术 Measuremen

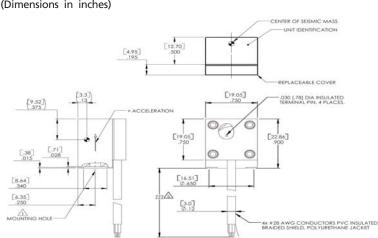
北京赛斯维测控技术有限公司 北京市朝阳区望京西路48号 金隅国际C座1002

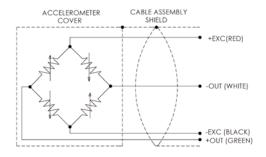
电话: +86 010 8477 5646 传真: +86 010 5894 9029 邮箱: sales@sensorway.cn

http://www.sensorway.cn

dimensions

(Dimensions in inches)







Model 61 Accelerometer

performance specifications

All values are typical at +24°C, 100 Hz and 10 Vdc excitation unless otherwise stated. Measurement Specialties, Inc. reserves the right to update and change these specifications without notice.

Parameters	Value	Unit	Notes
DYNAMIC			
Range	±750	g	
Sensitivity	0.35	mV/g	
Frequency Response	0 to 2000	Hz	±5%
	0 to 3000	Hz	±1dB
Resonance	>20,000	Hz	Gas damped, Q~0.3
Non-Linearity	±1	%FSO	
Transverse Sensitivity	<3	%	1% available
Zero Acceleration Output	<±25	mV	MAX
Thermal Zero Shift	±0.04 (±0.02)	%FSO/°C(%FSO/°F)	0 - 50°C(32 to 122°F)
Thermal Sensitivity Shift	±0.04 (±0.02)	%/°C(%/°F)	0 - 50°C(32 to 122°F)
ELECTRICAL			
Voltage Excitation	2 to 10	Vdc	Output ratiometric to excitation. Do not reverse polarity.
Input Resistance	6500-7800	Ω	Measured between +EXC and - EXC
Output Resistance	2700-4800	Ω	Measured between +OUT and - OUT
Insulation Resistance	>100	ΜΩ	At 100 Vdc, leads to case and shield
Ground Isolation			Shield is connected to cover but
			isolated from mounting surface
ELECTRICAL			
Cable Output Connections	+EXC	RED	28 AWG Polyurethane Insulated
	-EXC	BLACK	28 AWG Polyurethane Insulated
	+OUT	GREEN	28 AWG Polyurethane Insulated
	-OUT	WHITE	28 AWG Polyurethane Insulated
	CABLE SHIELD	N/A	Braided Wires
	CABLE JACKET	WHITE	
PHYSICAL			
Case Material			Aluminum
Cable Connections			Integral 30 foot cable
Weight	18	gram	
Mounting			10-32 UNF or M5 X 0.8
Mounting Torque	18 (2)	lb-in (Nm)	
ENVIRONMENTAL			
Shock Limit	5000	g	
Operating Temperature	-20 to +85 (-4 to +185)	°C (°F)	
PART NUMBERING			
Model Number + Range (g's) + Excitation Vdc + Cable Length + Options			(see sample below)

ordering information

61Z-750-ZZ-ZZZ-XY

NO CONNECTOR
CABLE LENGTH (INCHES) [e.g. 276 IS 276 INCHES OF CABLE]
EXCITATION (Vdc) [e.g. 10 IS 10 Vdc EXCITATION]
MOUNTING HOLE OPTION.[A IS 10-32 UNF,B IS M5X0.8]

Custom connector options are available.

Contact Measurement Specialties, Inc. for applicable model number.

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measurement