Model 62 Accelerometer

DC Response

Durable Cable

Small Package

Reliable Performance

DESCRIPTION

The Model 62 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 compensated temperature range from 0 to +50° C. A slight amount of internal gas damping provides outstanding shock survivability and a flat amplitude/phase response up to 7kHz. The Model 62 is compliant with SAE J211 standards for anthropomorphic dummy instrumentation.



FEATURES

- ◆ 2nd GEN MEMS Sensing Element
- → 50, 200, 500 and 2,000 g Ranges
- ◆ 2-10 Vdc Excitation for Maximum Flexibility
- ♦ 0-50°C Temperature Compensated Range
- → High Impact Teflon®-jacketed Cable
- ♦ 1% Transverse Sensitivity Available
- ♦ <± 25 mV Zero Offset
 </p>

APPLICATIONS

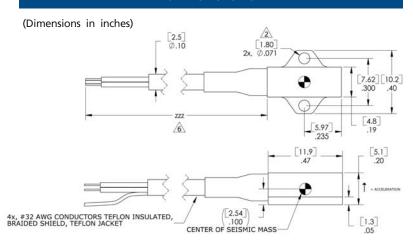
◆ Safety Crash Testing Auto

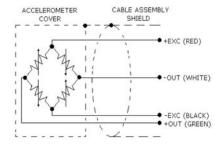
Truck

Recreational Vehicles

Shock Testing

dimensions





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Model 62 Accelerometer

performance specifications

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

DYNAMIC					Notes
Range(g)	±50	±200	±500	±2000	
Sensitivity (mV/g)	2	0.9	0.4	0.15	
Frequency Response (Hz)	0-400	0-800	0-1200	0-2000	±2%
	0-1000	0-2000	0-3000	0-5000	±5%
	0-1400	0-2800	0-4200	0-7000	±1dB
Resonance (Hz)	4000	8000	15000	26000	
Shock Limit	5000	5000	5000	5000	q
Non-Linearity		±1		% FSO	3
Transverse Sensitivity		<3		%	1% available
Zero Acceleration Output		<±25		mV	1 / C d Vallable
Thermal Zero Shift		±0.04 (±0.02)		%FSO/°C(%FSO/°F)	0°C to +50°C (32 to -122°F)
Thermal Sensitivity Shift		±0.1 (±0.06)		%/°C(%/°F)	0°C to +50°C (32 to -122°F)
ELECTRICAL		_0 (_0.00)		707 2(707 17	0 0 10 100 0 (02 10 122 1)
Voltage Excitation		2 to 10		Vdc	Output ratiometric to excitation. Do not
		2 10 10		7 4.0	reverse polarity.
Input Resistance		3500-4800		Ω	Measured between +EXC and - EXC
Output Resistance (Varies with	n current)	2700-4800		Ω	Measured between +OUT and - OUT
Insulation Resistance	r carretty	>100		MΩ	At 50 Vdc, leads to case and shield
Ground Isolation		7 100		17122	Shield is connected to cover but
Greatia isolation					isolated from mounting surface
ELECTRICAL					isolated from mounting surface
Cable Output Connections		+EXC		RED	32 AWG Teflon® Insulated
casic output connections		-EXC		BLACK	32 AWG Teflon® Insulated
		+OUT		GREEN	32 AWG Teflon® Insulated
		-OUT		WHITE	32 AWG Teflon® Insulated
		CABLE SHIELD		N/A	Braided Wires
		CABLE JACKET		WHITE	Teflon®
		CADLE SATERLY		*******	Teflon® is a registered trademark of E.I. Dupont de
					Nemouns and Company.
PHYSICAL					Nemours and company.
Case Material					Anodized aluminum
Cover Material					Brass
Cable Connections					Integral 30 foot cable
Weight		1		gram	integral 30 100t cable
Mounting		ı		grain	2x 0-80 x 3/16 socket head cap screws
wounting					(Flat Washers and Allen Wrench include
Mounting Torque		<3(<0.3)		lb-in (Nm)	(Hat Washers and Allen Witchert Illelade
ENVIRONMENTAL		\3(\0.3)		ID III (INIII)	
Operating Temperature		-40 to +121		°C	
Humidity		70 to T121			Epoxy Sealed
PART NUMBERING					Lpony Scaled
AILL INCIVIDEIXING		c + Cable Length + Op		(see sample below)	

ordering information

62-ZZZZ-ZZ-ZY

CONNECTOR OPTIONS

CABLE LENGTH (INCHES) [e.g. 360 IS 360 INCHES OF CABLE]

EXCITATION (Vdc) [e.g. 10 IS 10 Vdc EXCITATION]

RANGE (g) [e.g. 0200 IS 200g RANGE]

Supplied Materials:

- 1. Calibration Certificate
- 2. Mounting Screws (P/N AC-D02009) x 2
- 3. Washers (P/N AC-D02008) x 2
- 4. Allen Wrench

Custom connector options are available.

Contact Measurement Specialties, Inc. for applicable model number.

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