

Model 68C Accelerometer

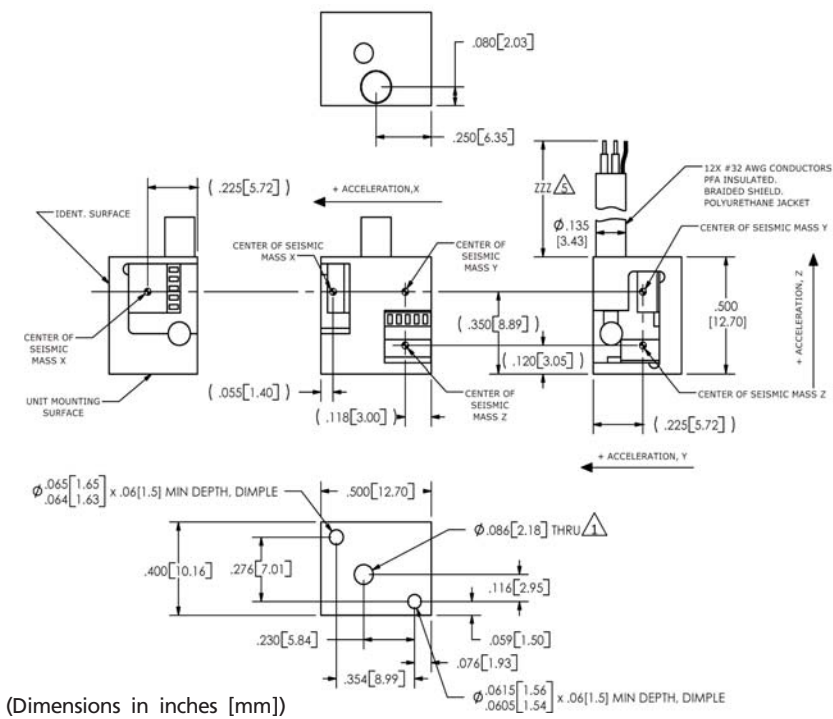
- DC Response
- Durable Cable
- Reliable Performance
- Low Cost



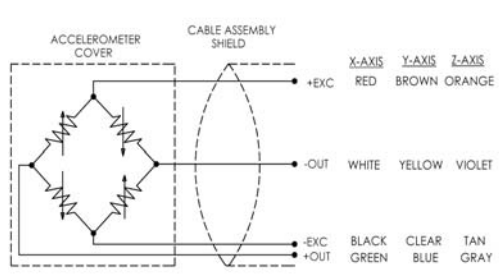
DESCRIPTION

The Model 68C accelerometer is a small, compact triaxial device designed for vehicle impact and road testing. Its mechanical overload stops provide high shock protection in rugged applications. Featuring ranges from 500 g to 2000 g and frequency response to 3000 Hz, this sensor is easily mounted in hard to reach places. This accelerometer is compliant with J211 specifications for anthropomorphic dummy applications.

dimensions



(Dimensions in inches [mm])



TABULATION Δ	
ZZZ	TOLERANCE
≤ 12 [305]	+1 [25] -0 [0]
> 12 [305] & ≤ 60 [1524]	+2 [51] -0 [0]
> 60 [1524] & ≤ 120 [3048]	+4 [102] -0 [0]
> 120 [3048] & ≤ 360 [9144]	+6 [152] -0 [0]
> 360 [9144]	+12 [305] -0 [0]

FEATURES

- ◆ 2nd Generation MEMS Sensing Elements
- ◆ 2000 g Full Scale Range
- ◆ 2-10 VDC Excitation
- ◆ 0-50 °C Temperature Compensation
- ◆ $< \pm 50$ mV Zero Measurand Output
- ◆ Mechanical Overload Stops
- ◆ Replaceable Sensors

APPLICATIONS

- ◆ Crash Testing
- ◆ Impact Testing
- ◆ Off-Road Testing
- ◆ Road Testing

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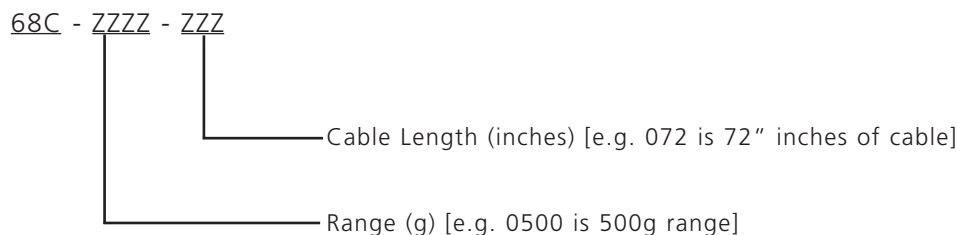
performance specifications

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.

PARAMETERS

DYNAMIC		Units	Notes
Range	500 2000		
Sensitivity	0.9 0.15	mV/g	
Frequency Response	0-3000 0-3000	Hz	±5%
Resonance	17,000 26,000	Hz	Gas Damped
Non-Linearity	±1	% FSO	
Transverse Sensitivity	<3	%	
Zero Acceleration Output	<±50	mV	
Thermal Zero Shift, 0 - 50°C(32 - 122°F)	±0.05 (±0.03)	%FSO/°C (%FSO/°F)	
Thermal Sensitivity Shift, 0 - 50°C(32 - 122°F)	±0.1 (±0.06)	%/°C(%/°F)	
ELECTRICAL			
Voltage Excitation	2 to 10	Vdc	
Input Impedance	3500 to 4800	Ω	
Output Impedance (Varies with current)	2700 to 4800	Ω	
Insulation Resistance	>100	MΩ	
Ground Isolation	Isolated		
Cable Output	Tinned Leads		72" Standard Length
PHYSICAL			
Case Material	Stainless Steel		
Weight	7	grams	Without Cable
Mounting	Screw		M2 X0.4, 16mm Length
Mounting Torque	3(0.3)		Lb-in(Nm)
ENVIRONMENTAL			
Shock Limit	5000 10000	g's	
Operating Temperature	-20 to +85 / -4 to +185		°C/°F
Humidity	Epoxy sealed		
PART NUMBERING	Model Number+Range+Cable Length		

ordering information



Custom connector options are available, Contact Measurement Specialties, Inc. for applicable model number.

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