

# Model 68C Accelerometer

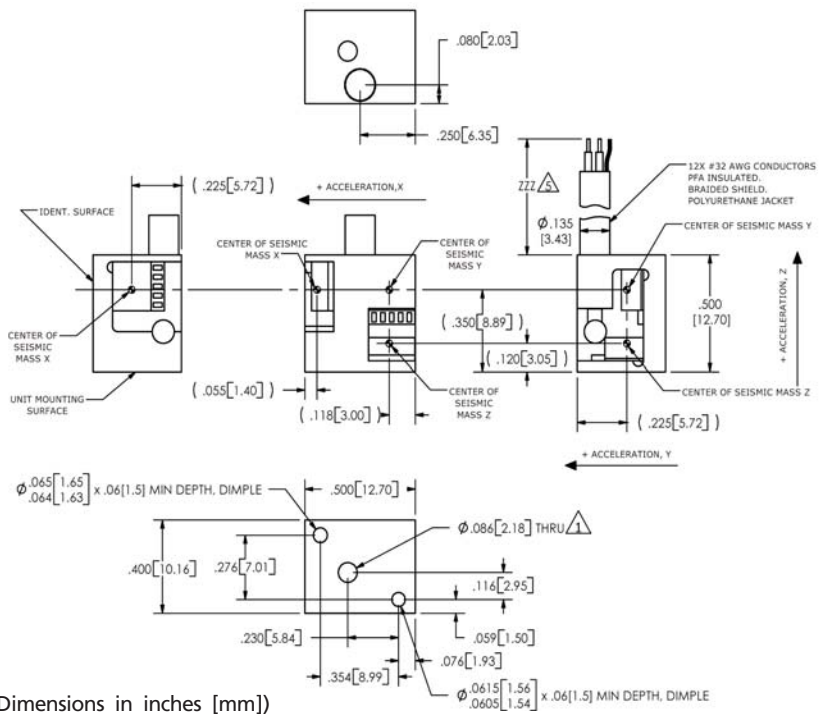
- DC Response
- Durable Cable
- Reliable Performance
- Low Cost



## 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

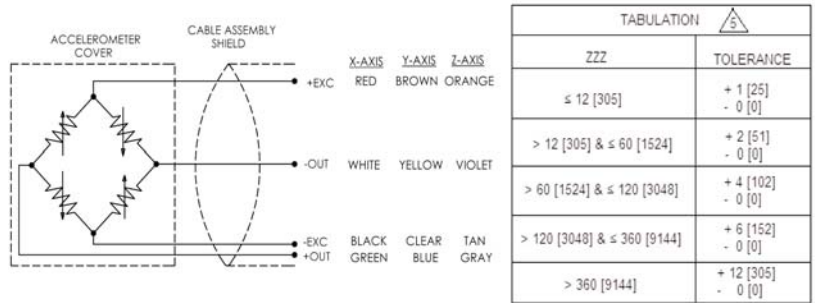


## FEATURES

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

## APPLICATIONS

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



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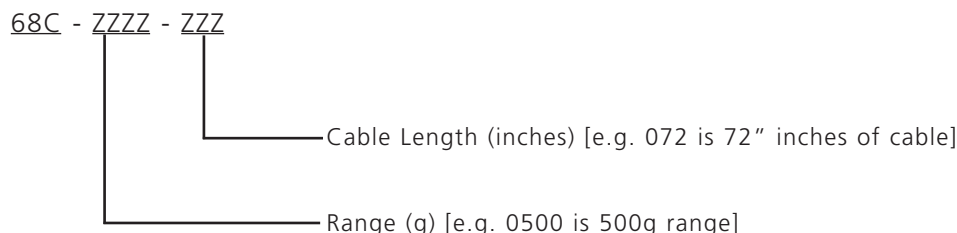
## performance specifications

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

				Units	Notes
<b>DYNAMIC</b>					
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)	
<b>ELECTRICAL</b>					
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
<b>PHYSICAL</b>					
Case Material		Stainless Steel			
Weight		7		grams	Without Cable
Mounting		Screw			M2 X0.4, 16mm Length
Mounting Torque		3(0.3)			Lb-in(Nm)
<b>ENVIRONMENTAL</b>					
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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