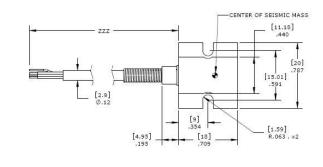
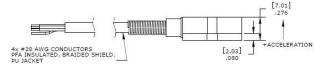
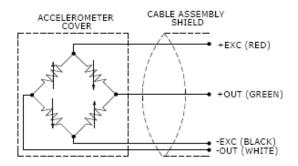


DIMENSIONS







MODEL 1210F ACCELEROMETER

SPECIFICATIONS

- MEMS DC Response
- Durable Cable
- Temperature Compensation
- Reliable Performance

The Model 1210F accelerometer is a small, compact uniaxial MEMS accelerometer designed for vehicle impact and road testing. Its mechanical overload stops provide high shock protection in rugged applications. Featuring ranges from 2g to 200g and frequency response to 2000 Hz, this sensor is easily mounted in hard to get places on vehicles under test.

FEATURES

- ±2g to ±200g Dynamic Range
- Environmentally Sealed
- -40°C to +100°C Operating Range
- Rugged Strain Relief
- Mechanical Overload Stops
- Gas Damping
- mV Output
- Bolt Mounted

APPLICATIONS

- Crash Testing
- Impact Testing
- Off-Road Testing
- Vehicle Testing

PERFORMANCE SPECIFICATIONS

All values are typical at $+24^{\circ}$ C, 80Hz and 10Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) ¹ Frequency Response (Hz) Frequency Response (Hz) Phase Response Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Damping Ratio Shock Limit (g)	+2 27 0-100 0-200 0-50 700 ±1 <3 0.7 2000	±5 16 0-200 0-300 0-60 800 ±1 <3 0.7 2000	±10 9 0-300 0-400 0-70 1000 ±1 <3 0.7 5000	±20 4.5 0-400 0-500 0-100 1500 ±1 <3 0.7 5000	±50 2 0-800 0-1000 0-300 4000 ±1 <3 0.6 5000	±100 0.9 0-1300 0-1500 0-500 6000 ±1 <3 0.6 5000	+200 0.7 0-1500 0-1800 0-500 7000 ±1 <3 0.5 5000	Notes @10Vdc Excitation ±5% ±1dB <±5°
ELECTRICAL Zero Acceleration Output (mV) Excitation Voltage (Vdc) Input Resistance (Ω) Output Resistance (Ω) Insulation Resistance (M Ω) Residual Noise (μ V RMS) Ground Isolation	2 to 10 2400-5000 2400-5000 2) >100						Differential @50Vdc Maximum	
ENVIRONMENTAL Thermal Zero Shift (%FSO/°C) Thermal Sensitivity Shift (%/°C) Operating Temperature (°C) Compensated Temperature (°C) Storage Temperature (°C) Humidity	C) -0.20 ±0.05 -40 to +100							
PHYSICAL Case Material Cable Weight (grams) Mounting Mounting Torque	Anodized Aluminum PFA Insulated Leads, Braided Shield, Polyurethane Jacket 3.5 2x #4 or M3 Screws 4.0 lb-in (0.5 N-m)							
¹ Output is ratiometric to excitation voltage								
Calibration supplied: CS-	CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±5% Frequency Response Limit						ency Response Limit	
Supplied accessories:2x #4-40 (1/4" length) Socket Head Cap Screw and Washer								

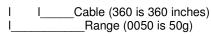
Optional accessories:	121	Three Channel DC Differential Amplifier
-	140A	Auto-zero Inline Amplifier

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ORDERING INFORMATION

PART NUMBERING Model Number+Range+Cable Length

1210F-XXXX-ZZZ



Example: 1210F-0050-360

Model 1210F, 50g, 360" (30ft) Cable

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