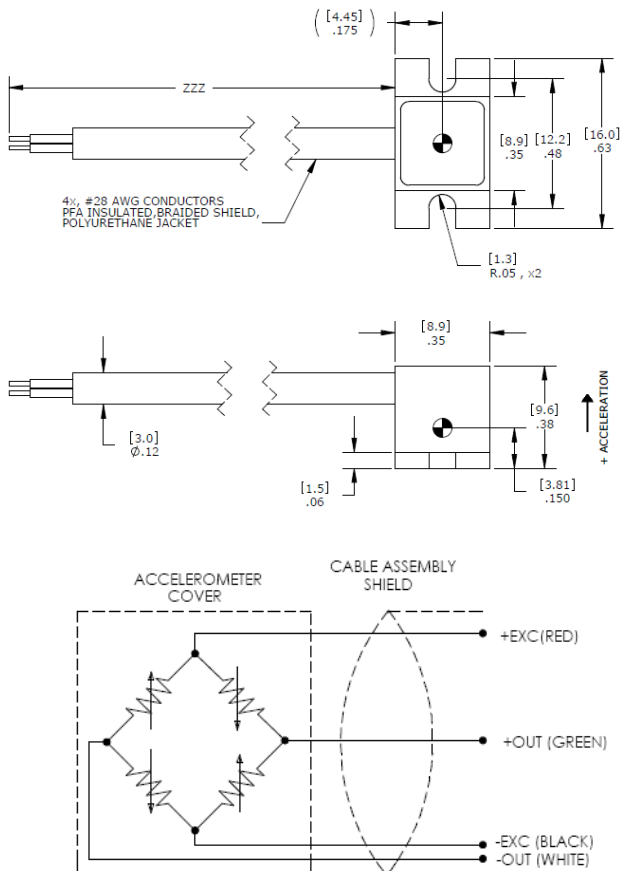


MODEL 1201F ACCELEROMETER



DIMENSIONS



SPECIFICATIONS

- ◆ DC Response Accelerometer
- ◆ Durable, Low Noise Cable
- ◆ Vehicle Crush Zone Testing
- ◆ Low Cost, High Performance

The Model 1201F Accelerometer is a small, compact uniaxial device designed for vehicle impact and road testing. Its mechanical overload stops provide high shock protection in rugged applications. Featuring ranges from ± 50 g to ± 1000 g and frequency response to 3000 Hz, this sensor is easily mounted in hard to get places on vehicles under test.

For a similar accelerometer designed for adhesive mounting, see the model 1201.

FEATURES

- ◆ Advanced MEMS Sensing Element
- ◆ ± 50 g to ± 1000 g Dynamic Range
- ◆ 2-10 Vdc Excitation
- ◆ 0-50 °C Temperature Range
- ◆ ± 40 mV Zero Measurand Output
- ◆ Gas Damping
- ◆ Connector Options
- ◆ Mechanical Overload Stops

APPLICATIONS

- ◆ Crash Testing
- ◆ Crush Zone Testing
- ◆ Impact Testing
- ◆ Off-Road Testing
- ◆ Transportation Testing

PERFORMANCE SPECIFICATIONS

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

Parameters	-0050	-0100	-0200	-0500	-1000	Notes
DYNAMIC						
Range(g)	± 50	± 100	± 200	± 500	± 1000	
Sensitivity (mV/g) ¹	2.0	0.9	0.9	0.40	0.15	@ 10Vdc excitation
Frequency Response (Hz)	0-800	0-1000	0-1400	0-2000	0-3000	$\pm 5\%$
Natural Frequency (Hz)	2000	3000	4000	6000	7000	
Non-Linearity (% FS)	± 1	± 1	± 1	± 1	± 1	
Damping Ratio	0.7	0.5	0.5	0.3	0.1	Typical
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	
Shock Limit (g)	3000	3000	4000	5000	5000	
ELECTRICAL						
Zero Acceleration Output (mV)	< ± 40					
Excitation (Vdc)	2 to 10					
Input Resistance (Ω)	2400-6000					
Output Resistance (Ω)	2400-6000					
Insulation Resistance (M Ω)	>100					@50Vdc
Ground Isolation	Isolated from mounting surface.					
ENVIRONMENTAL						
Thermal Zero Shift (%FSO/ $^{\circ}\text{C}$)	± 0.05					From 0 to $+50^{\circ}\text{C}$
Thermal Sensitivity Shift (%/ $^{\circ}\text{C}$)	± 0.2					From 0 to $+50^{\circ}\text{C}$
Operating Temperature ($^{\circ}\text{C}$)	-20 to +85					
Humidity	Epoxy Sealed, IP65					
PHYSICAL						
Case Material	Anodized Aluminum					
Cable	4x #28 AWG Conductors, PFA Insulated, Braided Shield, PU Jacket					
Weight (grams)	<2.5					Cable Not Included
Mounting	2x #2-56 socket head cap screws					Torque 4 lb-in
OPTION						
Model 1201FL-GGGG-CCC	With transverse sensing direction (parallel to mounting surface)					

¹ Output is ratiometric to excitation voltage

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to $\pm 5\%$ Frequency Limit

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+Options

1201F-GGGG-ZZZ-XXX

| | | Options (otherwise leave blank)
| | Cable (360 is 360 inches)
| Range (0100 is 100 g)

Installed

Optional Dash Numbers

-001 5Vdc Calibration
-002 2Vdc Calibration
-005 Lemo FG.1B.307 and Dallas DS2401

Example: 1201F-1000-360

Standard Configuration: 1000g, 360" (30ft) cable, No Options



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本 社：〒124-0023 東京都葛飾区東新小岩3丁目9番6号 TEL: (03) 3695-5431 / FAX: (03) 3695-5698
大阪支店：〒530-0054 大阪市北区南森町2-2-9(南森町八千代ビル7F) TEL: (06) 6361-4831 / FAX: (06) 6361-9360
e-mail: sales-tokyo@krone.co.jp URL: <https://www.krone.co.jp>

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