



APPLICATIONS

- Transportation Testing
- Vibration & Shock Monitoring
- Road Vehicle Testing
- Low Frequency Applications
- Modal Analyses
- Structural Monitoring

MODEL 4610A ACCELEROMETER

SPECIFICATIONS

- High Performance DC Response
- Micro-g Resolution, Low Noise
- Advanced Temp Compensation
- 5,000g Over-Range Protection

The Model 4610A is an ultra-low-noise accelerometer designed for both static and dynamic measurements. The accelerometer offers integral temperature compensation with dynamic range from ± 2 to ± 100 g. The model 4610A incorporates a gas damped MEMS element with mechanical overload stops for highg shock protection. The accelerometer has an operating temperature range of -55°C to +125°C.

For a triaxial version, TE Connectivity also offers the model 4630A accelerometer.

FEATURES

- ±2g to ±100g Dynamic Range
- 5,000g Shock Protection
- Signal Conditioned Output
- 8 to 30Vdc Excitation Voltage
- Gas Damping
- Integral Strain Relief
- Temperature Compensated

PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 12Vdc excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

Parameters DYNAMIC							Notes
Range (g)	±2	±5	±10	±20	±50	±100	notes
Sensitivity (mV/g)	1000	400	200	100	40	20	±10%
Frequency Response (Hz)	0-200	0-300	0-400	0-600	0-1000	0-1500	±5%
Frequency Response (Hz) Natural Frequency (Hz)	0-400 700	0-500 800	0-600 1000	0-1000 1500	0-1500 4000	0-2000 6000	±1dB
Non-Linearity (%FSO)	±1.0	±1.0	±1.0	±1.0	±1.0	±1.0	
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	<3	<1 Typical
Damping Ratio	0.7	0.7	0.7	0.7	0.7	0.7	
Shock Limit (g) Residual Noise (µV RMS)	2000 25	2000 20	5000 23	5000 31	5000 26	5000 32	Passband
Residual Noise (µg/√Hz RMS)	2	3	6	13	21	41	Spectral
EL EGEDIO AL							
ELECTRICAL Zero Acceleration Output (mV)	±50						Differential
Excitation Voltage (Vdc)	8 to 30						Dilicicitiai
Excitation Current (mA)	<12						
Bias Voltage (Vdc)	2.5						
Full Scale Output Voltage (Vdc) Output Resistance (Ω)	±2 <100						
Insulation Resistance (MΩ)	>100						@100Vdc
Turn On Time (msec)	<100						
Ground Isolation	Isolated fro	om Mounting	Surface				
ENVIRONMENTAL							
Thermal Zero Shift (%FSO/°C)	±0.010						-40 to +100°C
Thermal Sensitivity Shift (%/°C) Operating Temperature (°C)	±0.014 -55 to +12	-					-40 to +100°C
Compensated Temperature (°C)	-33 to +12						
Humidity	Epoxy Sea						
PHYSICAL							
Case Material	Anodized Aluminum						
Cable	4x #30 AW	4x #30 AWG Conductors PFA Insulated Leads, Braided Shield, TPE Jacket					
Weight (grams)	`	ot included)					
Mounting	2x #4 or M	კ Screws					

Mounting 2x #4 or M3 Screws Mounting Torque 6 lb-in (0.7 N-m)

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±5% Frequency Response Limit

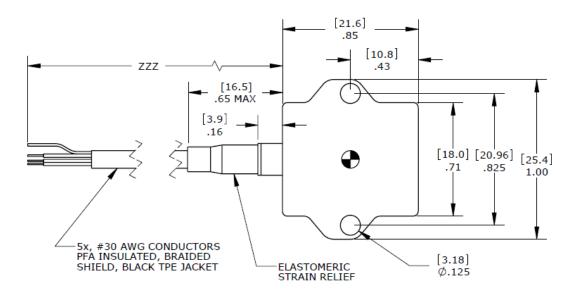
Supplied accessories: 2x #4-40 (7/16 length) Socket Head Cap Screw and Washer AC-A02285

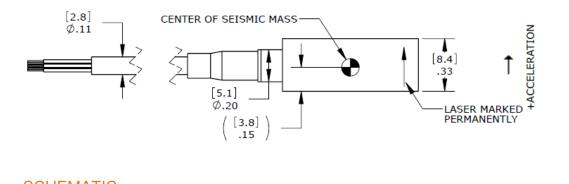
Optional accessories: AC-D02669 Triaxial Mounting Block

121 3-Channel Precision Low Noise DC Amplifier

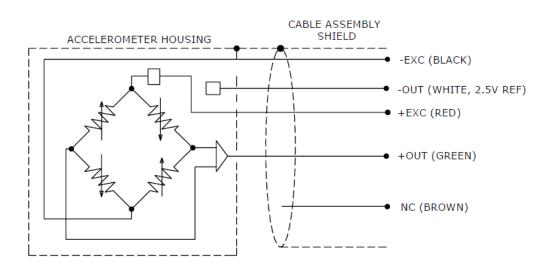
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DIMENSIONS

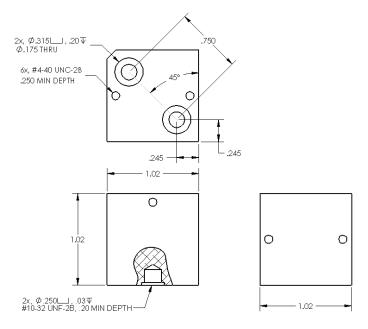


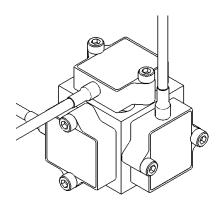


SCHEMATIC



TRIAXIAL MOUNTING BLOCK (PN AC-D02669)





ORDERING INFORMATION

4610A	GGG	ZZZ
Range 002=2g 005=5g 010=10g		
020=20g 050=50g 100=100g		
Cable length 060=60 inches 120=120 inches 240=240 inches 360=360 inches 480=480 inches 600=600 inches		
197=197 inches, 5 meters 394-394 inches, 10 meters		

Example; 4610A-002-060

Model 4610A, 2g range, 60inch (5ft) cable length





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