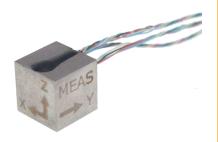


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MODEL EGAXT3 TRIAXIAL DAMPED ACCELEROMETER

Specifications

- Miniature Triaxial DC Accelerometer
- Critically Damped, Over-Range Stops
- ±10g to ±2500g Dynamic Range
- Temperature Compensated
- -40°C to +120°C Operating Range
- 10,000g Shock Protection

Features

- Individual Axes Sensing Elements
- DC to 2000Hz Frequency Response
- Full Bridge Design
- Linearity <1%
- 2-15Vdc Excitation
- <3% Transverse Sensitivity

Applications

- General Purpose T&M Applications
- · Vibration & Shock Monitoring
- Flight Testing
- Transient Drop Testing
- Static & Dynamic Measurements

The TE Connectivity EGAXT3 series accelerometers are miniature DC vibration sensors designed for test applications requiring small light weight sensors with minimal mass loading. The accelerometers are critically fluid damped and feature a full bridge output configuration with mechanical over-range stops for outstanding shock survivability. The damped EGAXT3 designs are available in ranges from ±10g to ±2500g and feature 0-2000Hz frequency response (range dependent).

The EGAXT3 and EGAXT3-F accelerometers can be powered with a range of 2-15Vdc excitation voltage. The accelerometers have a standard cross-talk accuracy of <3% and a standard ZMO (zero measurand output) of <±20mV.

The EGAXT3 series are environmentally sealed with IP61 protection. The accelerometers are available in two form factors, the EGAXT3 designed for epoxy mounting and the EGAXT3-F designed for screw mounting. The accelerometers incorporate an inline temperature compensation module which ensures accurate output over full operating temperature range.

For a single axis version, TE Connectivity offers the model EGAXT accelerometer design.

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Performance Specifications

All values are typical at $+24^{\circ}$ C, 80Hz (>50g ranges) 16Hz (\leq 50g ranges) and 15Vdc excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

PARAMETERS

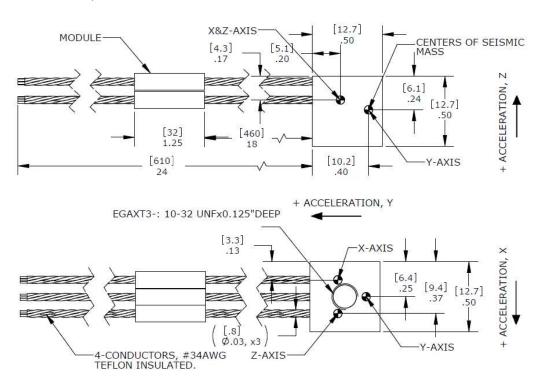
DYNAMIC									
Range (g)	±10	±25	±50	±100	±250	±500	±1000	±2500	
Sensitivity (mV/g) @15Vdc	6	3	2.25	1.5	0.75	0.50	0.25	0.10	
Frequency Response, Hz	0-140	0-300	0-350	0-400	0-500	0-750	0-1000	0-1400	±1/2dB
Min Resonance Freq, Hz	600	1200	1400	1700	2000	3000	4000	6000	
Transverse Sensitivity	<3%	<3%	<3%	<3%	<3%	<3%	<3%	<3%	
Non-Linearity	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	
Damping Ratio	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	
Shock Limit (g)	±1000	±2000	±5000	±10000	±10000	±10000	±10000	±10000	
ELECTRICAL									
Zero Measurand Output	<±20 mV, differential								
Excitation Voltage	2 to 15Vdc								
Input Resistance	2000 Ohms nominal								
Output Resistance	1000 Ohms nominal								
Insulation Resistance	>100 MΩ @50Vdc								
Ground Isolation	Isolated from mounting surface								
Warm-Up Time	<10 seconds								
ENVIRONMENTAL									
Thermal Zero Shift	±2.5mV / 50°C (±2.5mV / 100°F)								
Thermal Sensitivity Shift	+1% to -4% / 50°C (+1% to -4% / 100°F)								
Operating Temperature	-40°C to +120°C								
Compensated Temp	+20°C to +80°C, contact factory for other temperature compensation options								
Humidity	Epoxy Sealed, IP61								
PHYSICAL									
Case Material	Stainless Steel								
Cable	4x #34 AWG PTFE Leads 24 inches, Each Axis								
Weight	<6 grams								
Mounting	Epoxy mount for EGAXT3, Screw mount for EGAXT3-F (2x #2-56 or M2)								

¹ Output is ratiometric to excitation voltage

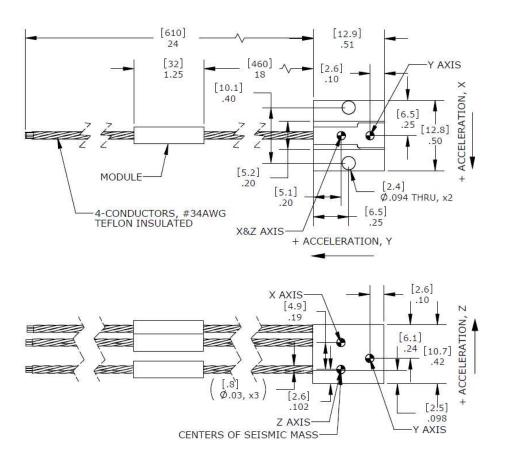
Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±1/2dB Frequency Limit

Optional accessories: 121 Channel Precision Low Noise DC Amplifier

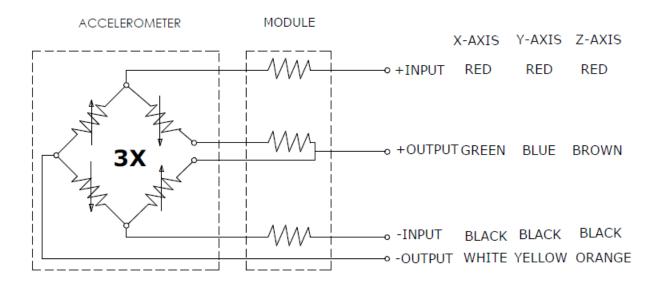
Dimensions, Model EGAXT3



Dimensions, Model EGAXT3-F



Schematic, for both EGAXT3 and EGAXT3-F



Ordering Information

EGAXT3 or EGAXT3-F GGGG -/VX /LZZ Range 10 = 10a25 = 25g50 = 50g100 = 100g250 = 250g500 = 500g1000 = 1000g2500 = 2500g **Excitation Voltage** Leave blank for standard 15Vdc V5 = 5Vdc excitation

Cable length

V10 = 10Vdc excitation

Leave blank for standard 2 feet cable length L2M = 2 meters L5M = 5 meters L10M = 10 meters

Example;

EGAXT3-100-/L5M, triaxial model EGAXT3, epoxy mount version, 100g range, 5 meter cable length EGAXT3-F-100, triaxial model EGAXT3, flange mount version, 100g range, standard 2 feet cable length

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