Model EGAXT3 Accelerometer



Miniature Triaxial Design DC Response 10,000 g Overrange Stops Broad Temperature Range

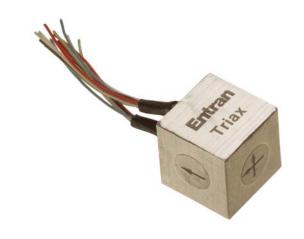
The Model EGAXT3 miniature triaxial accelerometer combines a damping ratio of 0.7 (Nominal) with built-in overrange stops that are set to protect the unit against 10,000g shocks. This is ideal for applications which may experience rough handling or in situations where the accelerometer must survive a high initial overload in order to make a low g measurement. These units feature a Wheatsone Bridge output with compensated temperature range of 20 to 80 °C.

FEATURES

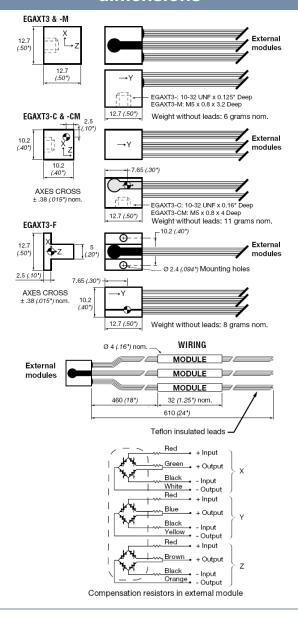
- Miniature Triaxial
- Low Weight
- Static and Dynamic Measurement
- Frequency Response through 3000 Hz
- ±1% Non-Linearity
- -40°C to +120°C Operating Range
- 10,000 g Overrange Protection

APPLICATIONS

- Flight Test & Control
- Launch
- Robotics
- Shock Testing



dimensions



Model EGAXT3 Accelerometer



performance specifications

All values are typical at +24°C, 100Hz and 15Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Paramete	ers
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DYNAMIC											Notes
Range (g)	±5	±10	±15	±25	±50	±100	±250	±500	±1000	±2500	
Sensitivity EGAXT (mV/g)	7.5	6	4.5	3	2.25	1.5	0.75	0.5	0.25	0.1	
Frequency Response min. (Hz)	0-120	0-140	0-220	0-300	0-350	0-400	0-500	0-750	0-1000	0-1400	±1/2dB
Frequency Response nom. (Hz)	0-250	0-300	0-450	0-600	0-700	0-900	0-1000	0-1500	0-2000	0-3000	±1/2dB
Natural Frequency (Hz)	500	600	900	1200	1400	1700	2000	3000	4000	6000	
Non-Linearity (%FSO)	±1	±1	±1	±1	±1	±1	±1	±1	±1	±1	
Transverse Sensitivity (%)	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	
Damping Ratio	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	Nominal
Shock Limit (g)	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	All 3 Axes

ELECTRICAL

Zero Acceleration Output (mV) ± 15 Differential Excitation Voltage (Vdc) 15 (can be used from 2 to 15Vdc but lower excitation voltage will decrease sensitivity accordingly) Input Resistance (Ω) 1000 Nominal Output Resistance (Ω) 450 Nominal Insulation Resistance (M Ω) >100 \oplus 50Vdc Ground Isolation Isolated from Mounting Surface

ENVIRONMENTAL

Thermal Zero Shift ± 2.5 mV / 50°C (± 2.5 mV / 100°F) Thermal Sensitivity Shift ± 1 to -4% / 50°C (± 1 to -4% / 100°F)

Operating Temperature -40 to 120°C (-40 to 250°F)

Compensated Temperature 20 to 80°C (70 to 170°F), contact factory for other temperature compensation options

Storage Temperature -40 to 120°C (-40 to 250°F)

Humidity Epoxy Sealed

PHYSICAL

Case Material Aluminum

Cable 12x Teflon Leads, 24 inch

Weight 6 grams

Mounting Adhesive or Screw Mount Versions Available (-F configuration)

AWG #34

Wiring color code: X-axis: +Excitation = Red; -Excitation = Black; +Output = Green; -Output = White

Y-axis: +Excitation = Red; -Excitation = Black; +Output = Blue; -Output = Yellow Z-axis: +Excitation = Red; -Excitation = Black; +Output = Brown; -Output = Orange

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ordering info

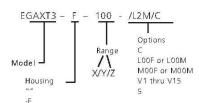
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	Z*	= Non-standard, contact factory
5 WIRE BRIDGE WIRING	5	= whire
FOR ADJUSTABLE ZERO OFFSET:		
EXCITATION VOLTAGE:	STANDARD	= 15VDC
	V00	 Replace "00" with Excitation between 1 and 15. If less than 15, Sensitivity (FSO) will decrease accordingly.
SPECIAL LEAD LENGTH:	LOOF	= Replace "00" with total length in feet.
	LOOM	= Replace "00" with total length in meters.
SPECIAL MODULE LOCATION:	MOOF	 Replace "00" with distance between sensor and module in feet.
	MOOF	 Replace "00" with distance between sensor and module in meters.
CONNECTOR WIRED TO CABLE:	C	= Microtech type male or equivalent (w/o mate)

COMPENSATED TEMPERATURE RANGES: STANDARD = 20°C to 80°C (70°E to 170°E)