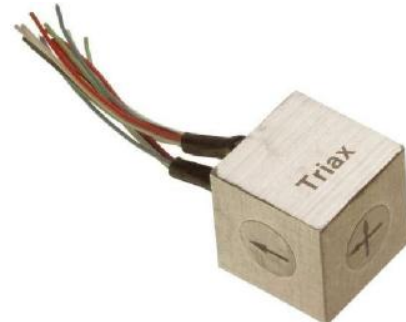


Model EGAXT3 Accelerometer

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 Wheatstone Bridge output with compensated temperature range of 20 to 80 °C.

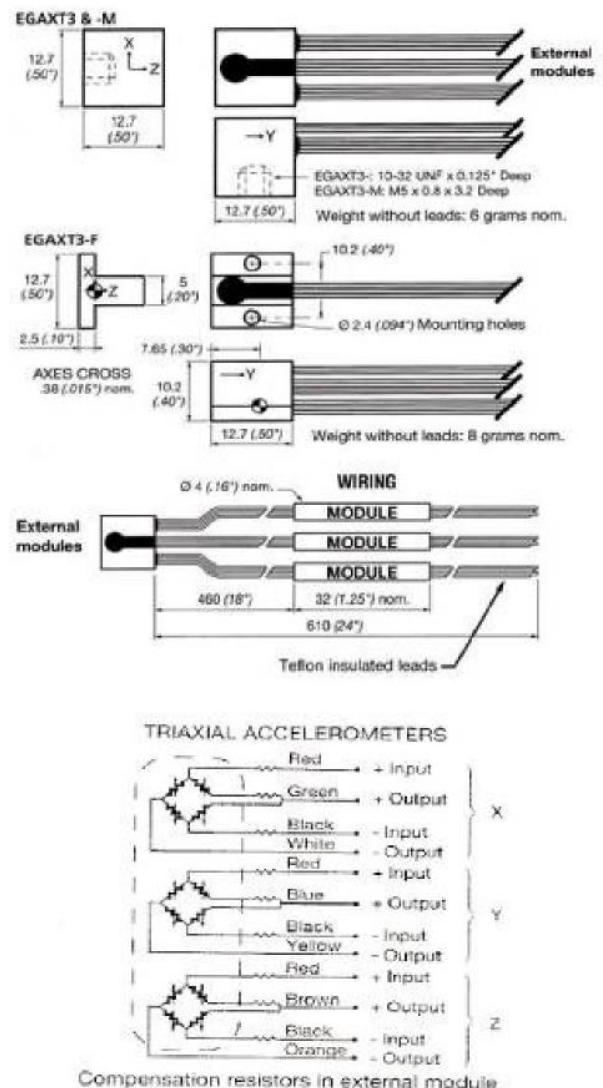
FEATURES

- Miniature Triaxial
- Low Weight
- Static and Dynamic Measurement
- Frequency Response through 3000 Hz
- $\pm 1\%$ Non-Linearity
- -40°C to $+120^{\circ}\text{C}$ Operating Temperature 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 and at 15 Vdc excitation unless otherwise stated. Standard product parameters are described in PSC-1004 for Plug & Play DC Accelerometers.

Parameters

DYNAMIC

Range (+/-g)	5	10	15	25	50	100	250	500	1000	2500
Sensitivity EGAX (mV/g)	7.5	6.0	4.5	3	2.25	1.5	0.75	0.5	0.25	0.1
Freq. Resp. (Hz) / ±0.5dB	0-250	0-300	0-450	0-600	0-700	0-900	0-1000	0-1500	0-2000	0-3000
Resonance (Hz)	500	600	900	1200	1400	1700	2000	3000	4000	6000
Non-Linearity (%)						±1				
Transverse Sensitivity (% MAX)						3				
Zero Acceleration Output (mV)						±15				
Thermal Zero Shift (50°C/100°F)						±2.5mV/±2.5mV				
Thermal Sensitivity Shift (50°C/100°F)						1 to -4%				
Damping Ratio (Nominal)						0.7				

ELECTRICAL

Voltage Excitation (Vdc)				15
Input Resistance (Ohms)				1000
Output Resistance (Ohms)				450
Cable Output Connections	X	Y	Z	
	Red	Red	Red	+EXC
	Black	Black	Black	-EXC
	Green	Blue	Brown	+OUT
	White	Yellow	Orange	-OUT

PHYSICAL

Case Material	Aluminum
Cable Connections	1 m, 4 conductor leads
Weight (grams)	6 grams
Mounting	Adhesive and Stud Mount Versions Available

ENVIRONMENTAL

Shock Limit for Sensitive Axis (g)	10,000
Operating Temperature (°C)	-40 to 120
Compensated Temperature (°C)	20 to 80

ordering info

EGAXT3	-	F	-	100	-	/L2M/C	COMPENSATED TEMPERATURE RANGES:	STANDARD	=	20°C TO 80°C (70°F TO 170°F)
Model		Housing		Range			5 WIRE BRIDGE WIRING	Z*	=	Non-Standard, contact factory
				Options:			FOR ADJUSTABLE ZERO OFFSET:	5	=	5 wire
				C			EXCITATION VOLTAGE:	STANDARD	=	15 Vdc
				L00F oder M00M			SPECIAL LEAD LENGTH:	V00	=	Replace "00" with excitation between 1 and 15 less than 15 , sensitivity (FSO) will decrease accordingly
				V1 thru V15			SPECIAL MODULE LOCATION:	L00F	=	Replace "00" with total length in feet
				5			CONNECTOR WIRED TO LEADS:	L00M	=	Replace "00" with total length in meters
								M00F	=	Replace "00" with distance between sensor and module in feet
								M00M	=	Replace "00" with distance between sensor and module in meters
								C	=	Microtech, male or equivalent (w/o mate)

Due to continual product development, ALTHEN and partners reserve the right to vary the foregoing details without prior notice.

Model EGAXT3 Rev 2 06/11/2009