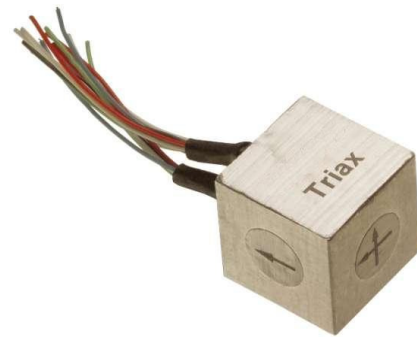


Model EGAXT3 Accelerometer

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.

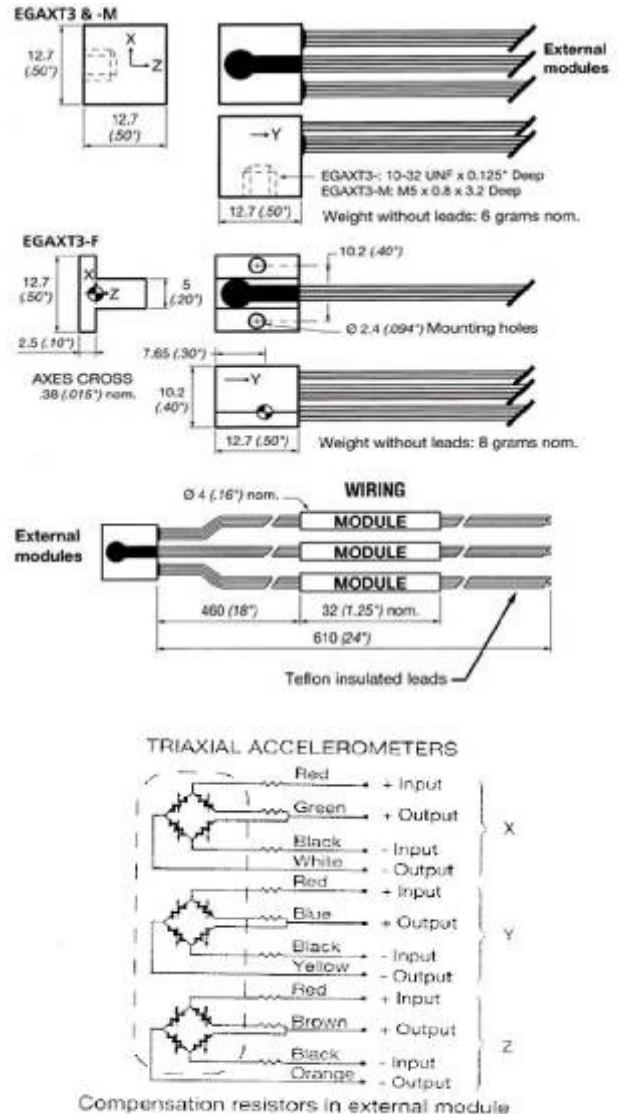
FEATURES

- Miniature Triaxial
- Low Weight
- Static and Dynamic Measurement
- Frequency Response through 3000 Hz
- ± 1% Non-Linearity
- -40°C to +120°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. Measurement Specialties, Inc. reserves the right to update and change these specifications without notice. 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

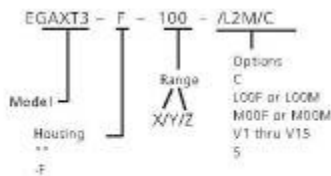
Case Material	Aluminum
Cable Connections	1 m, 4 conductor leads
Weight (grams)	6 grams
Mounting	Adhesive and Stud Mount Versions Available

ENVIRONMENTAL

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

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ordering info



COMPENSATED TEMPERATURE RANGES:	STANDARD	2" = 20°C to 80°C (70°F to 170°F)
5 WIRE BRIDGE WIRING FOR ADJUSTABLE ZERO OFFSET:	S	= Non-standard, contact factory = white
EXCITATION VOLTAGE:	STANDARD	= 15VDC = Replace "100" with Excitation between 1 and 15. If less than 15, Sensitivity (PSD) will decrease accordingly.
SPECIAL LEAD LENGTH:	LOOF LOOM MODF	= Replace "100" with total length in feet = Replace "100" with total length in meters
SPECIAL MODULE LOCATION:	MODF	= Replace "100" with distance between sensor and module in feet = Replace "100" with distance between sensor and module in meters
CONNECTOR WIRED TO CABLE:	C	= MicroTech type male or equivalent (600 mate)