

A260 Series

Linear Servo Accelerometers



Features

- Available in ranges from $\pm 1g$ to $\pm 20g$
- High resolution down to 0.0005% FRO
- Closed loop force balance system
- Self-Test facility
- DC Input – DC Output
- Connector and solder pin options
- 1g bias option to compensate for earth's gravity
- Low pass electronic filter options

Benefits

- Wide operational temperature range -55° to $+95^{\circ}C$
- High resolution down to 0.0005% FRO (max)
- Small size for easy integration into constrained space

Applications

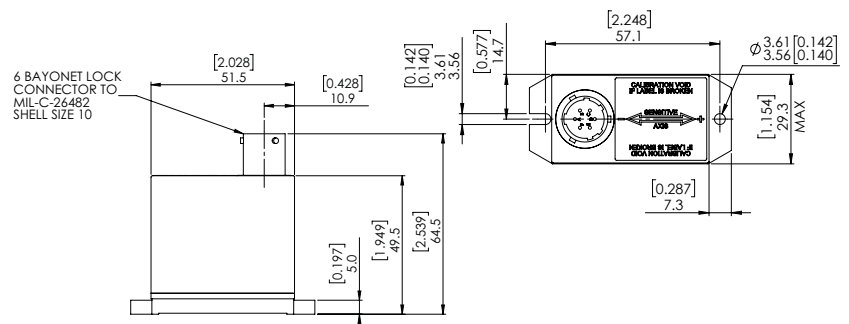
Flight test monitoring	Braking control in mass transit systems
Accident data collection	Data acquisition systems
Structural health monitoring	Low frequency analysis
Flight simulators	Road bed analysis

Electrical Connections

Pin A	16 to 32Vdc
Pin B	Power Supply Ground
Pin C	Signal Ground
Pin D	Output
Pin E	Not Connected
Pin F	Self Test

SIDE VIEW

PLAN VIEW



Specifications

Specifications by Range @ +25°C (+77°F)		± 1g	± 2g	± 5g	± 10g	± 20g
Output Impedance	Ω (nom)	5000	2500	5000	2500	5000
Output Noise (DC to 10kHz)	V rms			< 0.005		
Non-linearity (see note 2)	% FRO (max)	± 0.05	± 0.05	± 0.05	± 0.05	± 0.10
Hysteresis	% FRO (max)			0.02		
Resolution	% FRO (max)			0.0005		
Natural Frequency	Hz(nom)	90	100	115	130	150
Cross-axis Sensitivity (see note 3)	% FRO (max)	± 0.2	± 0.2	± 0.2	± 0.2	± 0.5
Zero Offset (see note 4)	% FRO			< ± 0.1		
Damping Ratio				0.6 ± 0.1		
Insulation Resistance	MΩ			≥ 20		
Thermal Zero Shift	%FRO/°C (%FRO/°F) (max)			≤ ± 0.002 (0.004)		
Thermal Sensitivity Shift	%Reading/°C (%Reading/°F) (max)			≤ ± 0.02 (0.04)		
Weight	Grams (ozs)			180 (6.3) Connector Version, 155 (5.5) Solder Pin Version		

Electrical

Full Range Output (FRO) (see note 1)	Volts dc	± 5
Excitation Voltage	Volts dc	16 to 32
Power Consumption	W (max)	1

Environmental Characteristics

Operating Temperature Range °C (°F)	-55 to +95 (-67 to 203)
Survival Temperature Range °C (°F)	- 65 to 105 (-85 to 221)
Shock	100g, 11ms ½ sine
Altitude m (ft)	30,000 (98,400)

Notes

1. Full Range Output (FRO) is defined as the full acceleration excursion from positive to negative, i.e. ± 2g = 4g
2. Non-linearity is determined by the method of least squares
3. Cross-axis sensitivity is the output of unit when subjected to full range acceleration in cross-axis
4. Zero offset is specified under static conditions with no vibration inputs

Model Designation & Ordering Code

A 2 6 3 - □ 0 0 1 - □ g

0 Standard }
3 1g bias } } g Range

Specify Optional Mating Connector 3CON-0009 if required

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