

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 passelectronic filter options

Applications

Flight test monitoring	Braking control in masstransit systems
Accident data collection	Data acquisition systems
Structural health monitoring	Low frequency analysis
Flight simulators	Roadbed analysis

Benefits

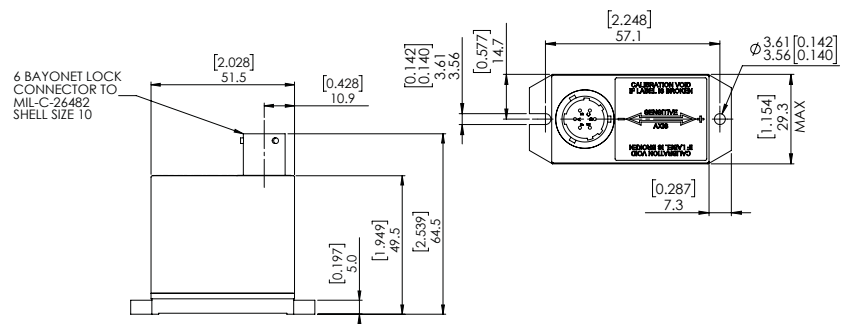
- Wide operational temperature range -55° to $+95^{\circ}C$
- High resolution down to 0.0005%FRO(max)
- Small size for easy integration into constrained space

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

SIDEVIEW

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 (DCto 10kHz)	V _{rms}			< 0.005		
Non-linearity (seenote 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-axisSensitivity (seenote 3)	% FRO(max)	± 0.2	± 0.2	± 0.2	± 0.2	± 0.5
Zero Offset (seenote 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)(seenote 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 ½sine
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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