

g AAA545 Servo Accelerometer

FEATURES

- Ranges ± 2g to ± 50g
- Essentially zero temperature coefficent of damping ratio
- Integral temperature compensation
- DC input DC output
- High reliability



BENEFITS

- Compact size
- Wide temperature range -40 to +105 °C
- Low weight 40 grams

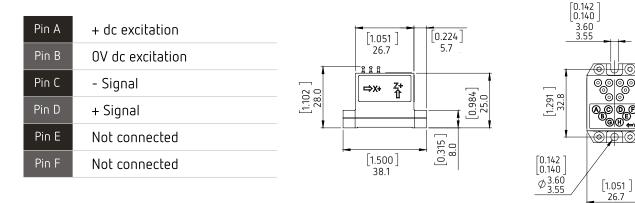
APPLICATIONS

- Data acquisition Systems
- Crash recorders
- Road bed analysis
- Railways
- Simulators

APPLICATIONS

SIDE VIEW









SPECIFICATIONS

Specifications by Range @ 25°C		± 2g	± 5g	± 10g	± 20g	± 50g
Output Impedance	Ω (max)			1.2 to 6.5		
Output Noise	V rms (max)			10		
Non-linearity (see note 2)	% FRO (max)			±0.5		
Hysteresis	% FRO (max)			0.02		
Resolution	% FRO (min)			0.0005		
Cross-axis Sensitivity (see note 3)	% FRO (max)			±1		
Zero Offset (see note 4)	Volts dc (max)			±2		
Damping Ratio				0.7 (±0.2)		
Thermal Zero Shift	%FRO/°C (max)			±0.02		
Thermal Sensitivity Shift	%Reading/°C (max)			±0.02		
Sensitive Axis Alignment		Vertical to mounting face				
Weight	grams (max)			40		
Electrical						
Input Voltage	Volts dc			14.5 to 27		
Input Current	mA dc (max)			5		
Environmental Characteristics						
Operating Temperature Range	°C			-40 to 105		
Compensated Temperature Range	°C			0 to 50		
Storage Temperature Range	g			-55 to 130		
Humidity/Immersion				IP65		
Insulation Resistance	MΩ (@50V dc)			20		

NOTES

- 1. Full Range Output (FRO) is defined as the full acceleration excursion from positive to negative, i.e. $\pm 2g = 4g$
- 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

MODEL DESIGNATION & ORDERING CODE

A 5 4 5 - 0 0 0 1 - g

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