Servo-Inclinometer/ Accelerometer TS series



FEATURES:

- Low range acceleration/tilt sensor
- High accuracy closed loop operation
- Infinite resolution
- **Excellent repeatability**
- High environmental resistance
- Fast response
- Low power unregulated supply
- High level, low impedance output
- Cost effective

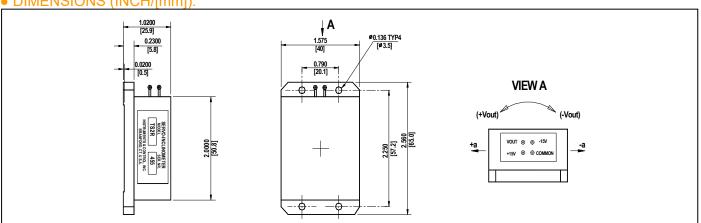


• SPECIFICATIONS:

	ACCELERATION	TILT	
Measuring range	±0.1g, up to ±1g	±5 to ±90 degrees	
Non-linearity error 1), 2)	0.02%FR typ (1)	0.02%FR typ (2)	
Resolution	<0.0001g	<1 arc-sec	
Non-repeatability & Hysteresis	< 0.005% FR		
Sensitive axis misalignment	< 0.5 deg		
Cross-axis sensitivity	<0.002g/g		
Bias	<0.1% FR		
Power supply	±15VDC @ 8mA unregulated (±13 to ±17VDC)		
Output	±5v FS @ 10 mA max.		
Output impedance	<10 Ω		
Step response	50 msec		
Zero temperature coefficient		2 arc-sec /°C typ	
Span temperature coefficient	0.01%/	0.01%/°C typ	
Temperature range (°C)	-30 to +70 operating	-40 to +85 survival	
Maximum overload	100g constant	100g constant acceleration	
Shock survival	250g, 1°	250g, 11msec	
Housing material	Sulphuric anodized # 2	Sulphuric anodized # 2024 Aluminum alloy	
Weight	100 gr	100 grams	

Notes: 1) Non-linearity error defined as maximum deviation of any point from the best straight line, in percents of the full me asuring range. 2) Non-linearity error defined as maximum deviation of any point from the theoretical sine function line, in percents of the full measuring range. Linearity specified for up to ±30 degrees range; error is 0.05% deg. for±45 deg. range, 0.1% for ±60 degrees

DIMENSIONS (INCH/[mm]):



Rev. E

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