Battery Operated Servo-Inclinometer /Accelerometer, TSB Series

SINGER INSTRUMENTS & CONTROL

FEATURES:

- Operates from a single 9V battery, 3mA current
- 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

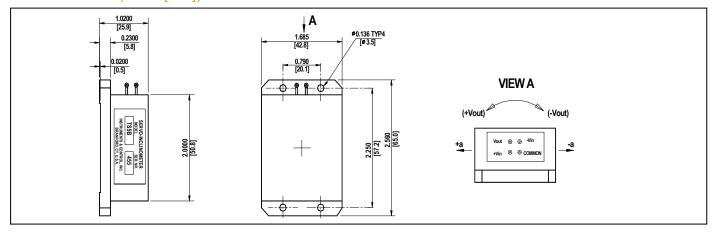




SPECIFICATIONS.	ACCELERATION	TILT	
Measuring range	±0.1g, up to ±1g	±5 to ±90 degrees	
Non-linearity error 1)	0.01%FR typ	0.01%FR typ	
Resolution	<0.0001g	<1 arc-sec	
Non-repeatability & Hysteresis	0.005% FR		
Sensitive axis misalignment	< 0.5 deg		
Cross-axis sensitivity	<0.002g/g		
Bias	<0.1% FR		
Power supply	9VDC @ 3mA unregulated (7 to 12VDC)		
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%/°C typ		
Temperature range (°C)	-30 to +70 operating	-40 to +85 survival	
Maximum overload	100g constant	100g constant acceleration	
Shock survival		250g, 11msec	
Housing material	Sulfuric anodized # 2	Sulfuric anodized # 2024 Aluminum alloy	
Weight	100 gr	100 grams	

Notes: 1) Non-linearity error defined as maximum deviation of any point from the theoretical sine function line, in percents of the full measuring range.

• DIMENSIONS (INCH/[mm]):



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