Battery Operated Servo-Inclinometer /Accelerometer,TSB Series

SINGER INSTRUMENTS & CONTROL

FEATURES:

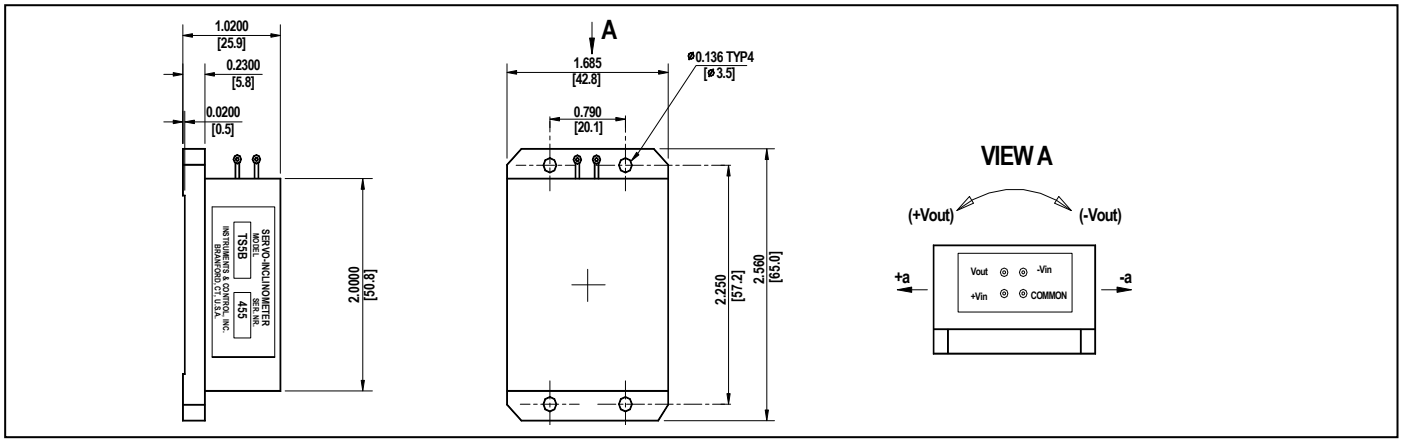
- Operates from a single 9V battery, 3mA current
- Low range acceleration/tilt sensor
- High accuracy closed loop operation
- Infinite resolution
- Excellent repeatability
- High environmental resistance
- Fast response
- Low power unregulated supply
- High level, low impedance output

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	<0.00001g	<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 acceleration	
Shock survival	250g, 11msec	
Housing material	Sulfuric anodized # 2024 Aluminum alloy	
Weight	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]):



Singer Instruments & Control Ltd.

2 Yozma St., Tirat Carmel 39032, **ISRAEL**
info@singer-instruments.com

Tel: 972-4-857-8880
Fax: 972-4-857-8881