



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⁾ | 0.02%FR typ | 0.02%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 | ±15VDC @ 5mA 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%/°C typ | |
| Temperature range (°C) | -30 to +70 operating -40 to +85 survival | |
| Maximum overload | 100g constant acceleration | |
| Shock survival | 250g, 11msec | |
| Housing material | Sulphuric anodized # 2024 Aluminum alloy | |
| Weight | 100 grams | |

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

DIMENSIONS (INCH/[mm]):

