



## **Applications**

Level control of machines and structures

Civil engineering studies

Marine ballast transfer systems

Vehicle Wheel Alignment

# **LSI Series**

DC-Operated, Gravity-Referenced Servo Inclinometer

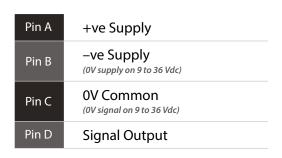
#### **Features**

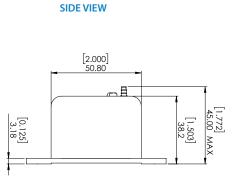
- Fully self-contained connect to a DC power source and a readout or control device for a complete operating system
- High-level DC output signal proportional to sine of the angle of tilt
- $\pm 14.5^{\circ}$ ,  $\pm 30^{\circ}$  &  $\pm 90^{\circ}$  ranges available

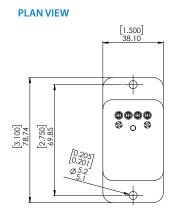
#### **Benefits**

- Economically Priced
- High Accuracy
- -20°C to +80°C Temp Rating

### **Electrical Connections**









± 90°

 $\pm 30^{\circ}$ 

-20 to 80

-40 to 90

500g, 0.5msec, 1/2 sine

### **Specifications**

Specifications by Range @ +20°C

Operating Temperature Range °C

Survival Temperature Range °C

**Shock Survival** 

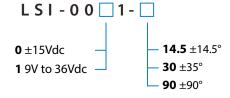
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Output Impedance	Ω (nom)		Less than 10	
Non-linearity (see note 2)	% FRO (max)	0.02	0.02	0.05
Cross-axis Sensitivity (see note 3)	% FRO (max)		±1	
Zero Offset (see note 4)	Volts dc (max)		± 0.050	
Thermal Zero Shift	%FRO/°C (max)		± 0.003	
Thermal Sensitivity Shift	%Reading/°C (max)		± 0.01	
Electrical				
Full Range Output (FRO) (see note 1)	Volts dc		±5 ±0.5%	
Excitation Voltage	Volts dc		±15 or +9 to +36	
Power Consumption	W (max)		$\pm 15V$ version = $\pm 0.6$ +9V to +36V version = 1.5	
<b>Environmental Characteristics</b>				

± 14.5°

#### **Notes**

- 1. Full Range Output is defined as the full angular excursion from positive to negative, i.e.  $\pm 90^{\circ} = 180^{\circ}$ .
- 2. Non-linearity is determined by the method of least squares.
- 3. Cross-axis Sensitivity is the output of unit when tilted to full range angle in cross-axis.
- 4. Zero offset is specified under static conditions with no vibration inputs.

#### **Model Designation & Ordering Code**



+44 (0)1256 630 300



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