



0729-1759-99

Dual Axis Inclinometer RS232



Description

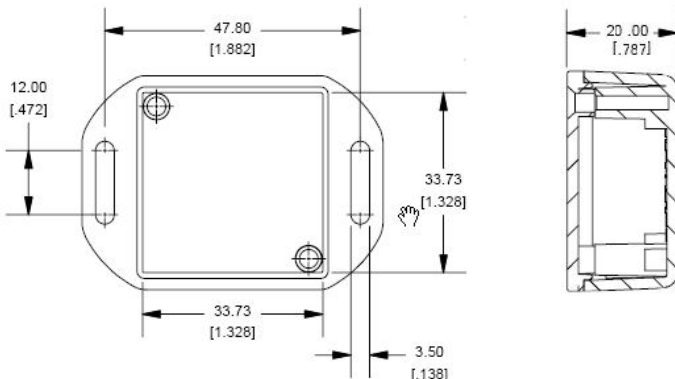
The dual axis inclinometer in a compact, high-impact plastic housing offers microprocessor based electronics with RS232 output for easy use and interface with instrumentation and equipment. Assembly includes the Fredericks dual axis *TrueTilt* 0717-4318-99 sensor which provides long term repeatability and environmental durability in the most demanding applications.

- Angle range $\pm 60^\circ$ (X & Y axis)
- Resolution .003 degrees
- Repeatability ± 0.1 Degrees
- Outputs (X& Y Axis) RS232
- Power Supply Voltage 7 to 16 VDC

Operating Specifications

Output	RS232
Angle Range	$\pm 60^\circ$ (X&Y axis)
Resolution (.003 degrees)	0.2 Arc Minutes
Repeatability	± 0.1 degrees
Power supply voltage	7 to 16 VDC (regulated)
Power supply current	20mA @ 7VDC
Operating & storage temperature range	-40°C to $+70^\circ\text{C}^*$
Symmetry (typ.)	5%
Null Offset	5.0°
Mech. Crosstalk / Deg. (to 20°)	0.025°
Temperature Coefficient	
* Null	20 arc sec / $^\circ\text{C}$
Scale	$0.1\% / ^\circ\text{C}$
Stability @ 24 hrs	0.1°
* Limited by housing	

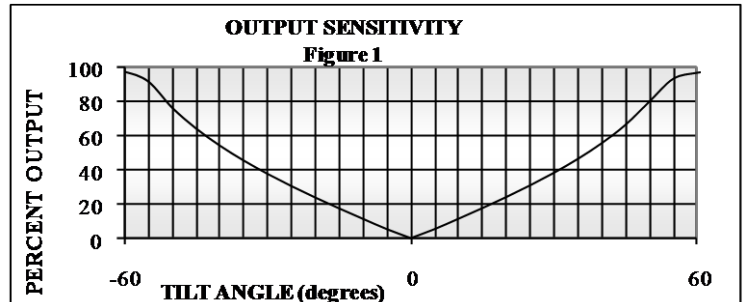
Physical Dimensions



Applications Include

- Solar Tracking
- Aerial Lift Platforms
- Construction machines
- Alarm System Activation
- Medical positioning and monitoring
- Machine tool leveling
- Mobile and stationary cranes

Sensor Output Sensitivity Chart



Circuit Board Specifications

Wire color	Signal name	Direction	Description
RED	Vcc	Input	Supply voltage input: +7 to +16 vdc
BLK	GND	-	Ground – The reference for the digital signals and the supply voltage
YEL	Gnd		
GRN	TX	Output	RS232 transmit output Response time: 25 msec (max) after command for complete ascii data string output
BLU	RX	Input	RS232 receive input

Note: Refer to 1-6200-006 spec sheet for more information

Note: Installed sensor is 0717-4318-99, other sensors can be utilized per customer request.