SUNSTAR传感与控制 http://www.sensor-ic.com/ TEL:0755-83376549 FAX:0755-83376182 E-MAIL:szss20@163.com SPECTROTILT^{Im}RS485 / 12 bit Electronic Inclinometer

The SPECTROTILT_{im} RS485 / 12 bit Electronic

Inclinometer offers unparalleled accuracy and value. By combining a single axis / hybrid electrolytic tilt sensor, with custom digital electronics and software, Spectron has successfully spanned the gap between cost and performance. Features include two available tilt ranges, +/-11.3 degrees or +/- 45 degrees, on-board linearity and temperature correction, ESD and EMI protection, aluminum housing, all in a hermetically sealed package. In addition, the digital output signal is ideal for long cable runs, eliminating concerns over signal loss and noise.

Applications

- Construction Equipment (Boom Angle, Safe Load Indicators)
- Road Graders and Pavers (Blade Angle)
- Wheel Alignment (Caster and Camber measurement
- * Antenna Position (Satellite Dish Elevation Angle)

General Specifications

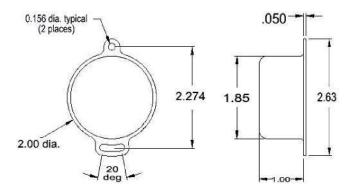
Tilt Range:+/-11.3 deg+/- 45 deg
Resolution:0.0032480.011721
Accuracy:+/-0.06 deg+/-0.06 deg (@+/-6 deg)
+/-0.11 deg (@+/- 12 deg)
+/-0.18 deg (@+/- 45 deg)
Output at null (zero degrees) 0 counts
Temperature Range
• operating40° to +80° C
• storage
Temp sensor output:0.25 deg C/count
Start-up Time
VibrationMIL Std. 810, method 514.4

* The output is transmitted in RS485 format, 9600 baud rate 8 data bits, 1 stop Bit, even parity,in MODBUS levels (0 and +5Vdc). 13 bit, Hexadecimal format

** Accuracy includes all effects, and is defined as the maximum output deviation from the absolute input angle.



Physical Dimensions (inches)



• vertical mounting shown!

Electrical Connections

Black =	Ground
Red =	+5 to +30Vdc (unregulated)
Green =	A (RS485)
Blue =	B (RS485)

Ordering Information

Part NumberDescriptionSSY0185-VDS12-RS485-11Vertical mountSSY0185-VDS12-RS485-45Vertical mountConsult factory for further technical information!



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