

NS/P Single Axis Inclinometer





Applications

- Zero point detection
- Aligning and level control
- Angle measurement

Advantages

- Wide range of application
- Low vibration sensitivity
- Higher Precision

NS/P Single Axis Inclinometer

The NS/P single-axis inclinometer is a member of a family of high performance, competitively priced, single and dual-axis inclinometers. The heart of every HL Planartechnik inclinometer is a small, state-of-the-art, inclination sensor. The sensor, which is comprised of a molded, ceramic case bonded, via a glass sealing process, to a ceramic substrate. Thin film, platinum electrodes are deposited on the substrate. Then the chamber is partially filled with electrolytic fluid and hermetically sealed.

The molded, ceramic, sensor housing combined with a precise, planar electrode geometry yields excellent performance and consistent part-to-part uniformity.

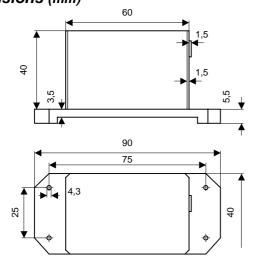
All P-type inclinometers are microprocessor controlled transducers capable of producing a linearized RS-232 digital or analog voltage output. With their machined, aluminum baseplate and IP 65 housing, they are an ideal choice for a variety of industrial, automotive and aerospace applications.

Pinout



1	+Ub	Supply Voltage
2	GND	Ground
3	Earth	Earth
4	Output Analogue Ux	+/- 1.5V ratio metrically around about GNDx
5	GNDx	Ground for analog voltage signal Ux
6	Input digital RS232	RxD
7	Output digital RS232	TxD

Dimensions (mm)



Specifications

			1	
Range:	±5°	± 15°	± 45°	
Percision:				
analogue:		+/- 0.05°	+/- 0.05°	
digital:	+/- 0.01°	+/- 0.01°	+/- 0.05°	
Resolution:	0.0005°	0.001°	0.003°	
Temperature stability:			_	
Zero point:	< 5*10 ⁻⁴ °/C		< 2*10 ⁻³ °/C	
Sensitivity:	< 1*1	0 ⁻³ %C	< 5*10 ⁻³ %	
Analog Output:	+/- 1.5V around GNDx			
Digital Output:	RS-232 in degrees			
Transmission rate:	2400 or 9600 Baud			
Format:	ASCII			
Operating temp. Range:	-25°C +85°C			
Storage temp. Range:	<i>-40°</i> C+85°C			
Supply voltage:	+5VDC+ 24VDC			
Current consumption:	ca. 35 mA			
Protection class:	IP 65			
Connection:	Connector or Pigtail			

Measurement Specialties/HL Planartechnik GmbH Tel: +49(0)231 97400, Fax: +49(0)231 974020 E-Mail: service@hlplanar.de

Http://www

Measurement Specialties

E-Mail: zhoujianz@.com

Http:/