



Applications

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

Advantages

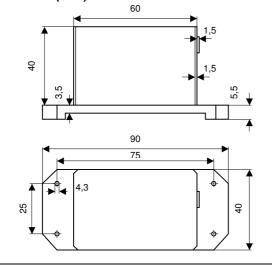
- Wide range of application
- Low vibration sensitivity
- Higher Precision

Pinout



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

Dimensions (mm)



NS-45/P Single Axis Inclinometer

The NS-45/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.

Specifications

Range:	<i>±</i> 45 °
Percision:	
analogue:	<i>±</i> 0.05 °
digital:	± 0.05°
Resolution:	0.003°
Temperature stability:	_
Zero point:	< 2*10 ⁻³ %K
Sensitivity: (up to ±30°)	< 5*10 ⁻³ %K
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:	-40°C+85°C
Supply voltage:	+ 7+ 24VDC
Current consumption:	ca. 35 mA
Protection class:	IP 65
Connection:	Connector or Pigtail