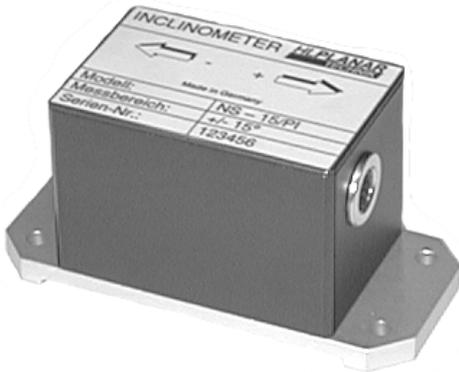


NS-15/PI Single Axis Inclinometer



The NS-15/PI, 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 PI-type inclinometers are microprocessor controlled transducers capable of producing a linearized RS-232 digital or 4-20 mA current output. With their machined, aluminum baseplate and IP 65 housing, they are an ideal choice for a variety of industrial, automotive and aerospace applications.

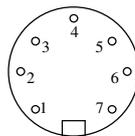
Applications

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

Advantages

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

Pinout

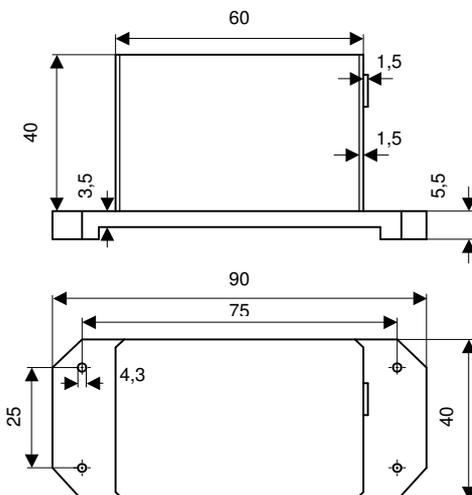


1	+Ub	Supply Voltage
2	GND	Ground
3	Earth	Earth
4	GNDx	Ground for analogue current output signal Ix
5	Output Analogue Ix	≈ 20 mA (-15°) to ≈ 4 mA (+15°)
6	Input digital RS232	RxD
7	Output digital RS232	TxD

Specifications

Range:	± 15°
Precision:	
analogue:	+/- 0.05°
digital:	+/- 0.01°
Resolution:	0.001°
Temperature stability:	
Zero point:	< 5*10 ⁻⁴ %/C
Sensitivity:	< 1*10 ⁻³ %/C
Analog Output:	
Analog current:	≈ 20mA(-15°) to ≈ 4mA(+15°) (*)
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

Dimensions (mm)



(*) Impedance:

Type NS-15/PI
Standard version $Z_A < 150 \text{ Ohm}$, Order-no.. 200154102100

Type NS-15/PI-260
Special version $Z_A < 260 \text{ Ohm}$, Order-no. 200154108100