

# Inclinometer +45°

# NS-45/PI Inclinometer



#### **Applications**

- Zero point detection •
- Machine Tool Alignment
- Level Control

# Advantages

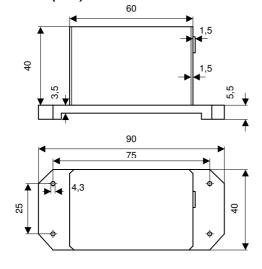
- IP 65 Housing
- Low vibration sensitivity
- High Precision

# **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 (-45°) to ≈ 4 mA (+45°)
6	Input digital RS232	RxD
7	Output digital RS232	TxD

#### Dimensions (mm)



#### Theory of Operation

The NS-45/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 with deposited thin film, platinum electrodes. The chamber is partially filled with electrolytic fluid and then 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 and analog current output. With their machined, aluminum base plate and IP 65 housing, they are an ideal choice for a variety of industrial, automotive and aerospace applications.

# **Specifications**

#### (\*) Impedance:

Type NS-45/PI

Standard version Z<sub>A</sub><150 Ohm, Order-no. 200454102100

Type NS-45/PI-260

Special version Z<sub>A</sub>< 260 Ohm, Order-no. 200454108100

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