



Applications

Advantages

- Zero point detection
 - Aligning and level
- control • Angle
- sensitivityLow price

Wide range of

Low vibration

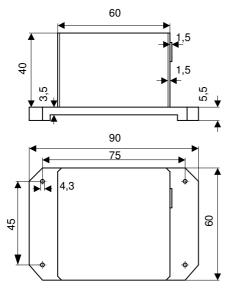
application





1	+Ub	Supply Voltage
2	GND	Ground
3	Erde	Earth
4	GNDx	Ground for analog output Ux
5	GNDy	Ground for analog output Uy
6	Ux	Voltage output Ux
7	Uy	Voltage output Uy

Dimensions (mm)



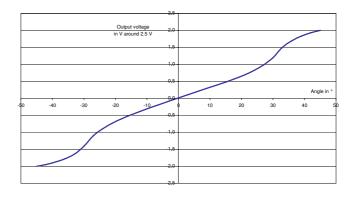
NS-45/V2 Dual Axis Inclinometer

With Analog Voltage Output

The NS-45/V2 dual-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.

The V-type sensors have an internal pre-processor and produce a -/+2V analog output. They have a compact sturdy design and a whole range of uses are possible thanks to the possibility of many different external-switching combinations. With their machined, aluminium baseplate and IP 65 housing, they are an ideal choice for a variety of industrial, automotive and aerospace applications.

Diagram (angle vs. output signal)



Specifications

Range:	±45°
Precision:	+/- 0.5 °
Resolution:	0.001 °
Temperature stability:	
Zero point:	0.1 ° for 0 ℃ +50 ℃
Sensitivity:	0.3° for 0 ℃ +50 ℃
Analog Output:	-2V (-45 °) to +2V (+45 °)
Operating temp. Range:	0 °C +70 °C
Storage temp. Range:	-40 ℃+85 ℃
Supply voltage:	+12 +24 VDC
Current consumption:	~ 9mA
Protection class:	IP 65
Connection:	Connector or Pigtail

HL-Planartechnik GmbH Hauert 13, D - 44 227 Dortmund, Tel.: +49 (0) 231/97400, Fax.: +49 (0) 231/974020 Internet: <u>http://www.hlplanar.com</u> E-Mail: service@hlplanar.de