



#### **Applications**

- Zero point detection
- Alignment and level control
- Angle

#### Advantages

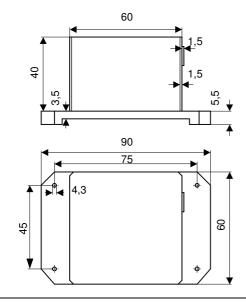
- Wide range of application
- Low vibration sensitivity
- Low price

## **Pinout**



1	+Ub	Supply Voltage
2	GND	Ground
3	Erde	Earth
4	GNDx	Ground for analogue output Ux
5	n.c.	n.c.
6	Ux	Voltage output Ux
7	n.c.	n.c.

#### Dimensions (mm)



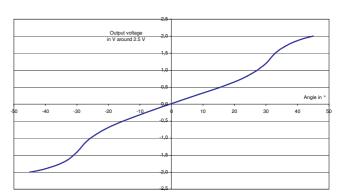
## NS-45/V Single Axis Inclinometer

With Analog Voltage Output

The NS-45/V 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.

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 ℃ +70 ℃
Storage temp. Range:	-40 ℃+85 ℃
Supply voltage:	+12 +24 VDC
Current consumption:	~ 9mA
Protection class:	IP 65
Connection:	Connector or Pigtail