



#### **Applications**

# Zero point detection •

- Aligning and level control
- Angle

#### Advantages

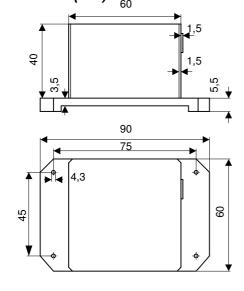
- Wide range of application
- Low vibration sensitivity
- Low price

## **Pinout**



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

### Dimensions (mm)

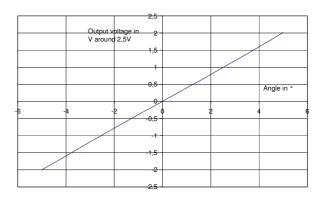


## NS-5/V Single Axis Inclinometer With analog voltage output

The NS-5/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:	±5°
Precision:	0,03° for -3° +3°
Resolution:	0,001°
Temperature stability:	
Żero point:	0,1° for 0 ℃ +50 ℃
Sensitivity:	0,3° for 0 ℃ +50 ℃
Analog Output:	-2V (-5°) to +2V (+5°)
Operating temp. Range:	0 ℃+70 ℃
Storage temp. Range:	-40 ℃+85 ℃
Supply voltage:	+12 +24VDC
Current consumption:	~ 9mA
Protection class:	IP 65
Connection:	Connector or Pigtail