

NS-5/VI Single Axis Inclinometer

With current output



The NS-5/VI 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 VI-type inclinometers have an internal pre-processor

and produce a 4-20 mA current output. They have a

compact sturdy design and a whole range of uses are

possible thanks to the possibility of many different externalswitching combinations. With their machined, aluminum

baseplate and IP 65 housing, they are an ideal choice for a

automotive

Applications

control

Advantages

Zero point detection

Aligning and level

Angle

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

Pinout

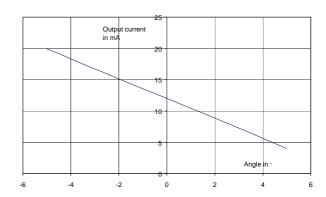


1	+Ub	Supply Voltage
2	GND	Ground
3	Erde	Earth
4	GNDx	Ground for analog output Ix
5	n.c.	n.c.
6	lx	Current output lx
7	n.c.	n.c.

Diagram (angle vs. output signal)

variety of industrial,

applications.



Dimensions(mm) 60

1,5 1,5 1,5 2,6 30 75 4,3

Specifications

Range:	± 5°
Precision:	0.03° for -3° +3°
Resolution:	0.001°
Temperature stability:	
Zero point:	0.1° for 0°C 50°C
Sensitivity:	0.3° for 0°C 50°C
Analog Output:	≈20mA (-5°) to
	≈4mA (+5°)
Operating temp. Range:	0°C +70°C
Storage temp. Range:	-40°C+85°C
Supply voltage:	+12 24VDC
Current consumption:	ca. 30mA
Protection class:	IP 65
Connection:	Connector or Pigtail

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