

The NS-15/V2I 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.

**Applications**

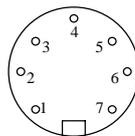
- Zero point detection
- Aligning and level control
- Angle measurement

**Advantages**

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

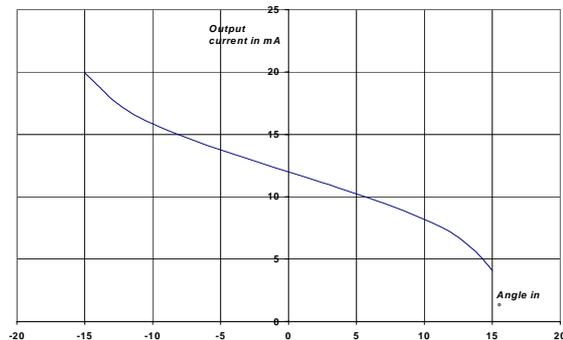
All VI-type inclinometers have an internal pre-processor and produce a 4-20 mA current output. They have a compact sturdy design and a whole range of uses are possible thanks to the possibility of many different external-switching combinations. With their machined, aluminum baseplate and IP 65 housing, they are an ideal choice for a variety of industrial, automotive and aerospace applications.

**Pinout**

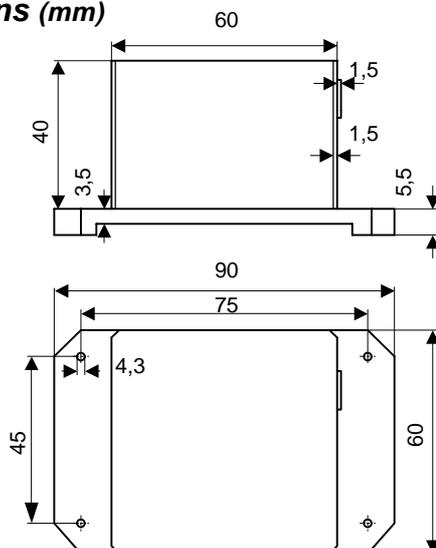


|   |      |                               |
|---|------|-------------------------------|
| 1 | +Ub  | Supply Voltage                |
| 2 | GND  | Ground                        |
| 3 | Erde | Earth                         |
| 4 | GNDx | Ground for analogue output Ix |
| 5 | GNDy | Ground for analogue output Iy |
| 6 | Ix   | Current output Ix             |
| 7 | Iy   | Current output Iy             |

**Diagram** (angle vs. output signal)



**Dimensions (mm)**



**Specifications**

|                        |  |
|------------------------|--|
| Range:                 | $\pm 15^\circ$   |
| Precision:             | 0,03° for -3°... +3°<br>0,08° for -10° ... +10°                |
| Resolution:            | 0,001°   |
| Temperature stability: |  |
| Zero point:            | 0,1° for 0°C ... 50°C  |
| Sensitivity:           | 0,3° for 0°C ... 50°C  |
| Analog Output :        | $\approx 20\text{mA}$ (-15°) to<br>$\approx 4\text{mA}$ (+15°) |
| Working temp. Range:   | 0°C ... +70°C  |
| Storage temp. Range:   | -40°C ... +85°C  |
| Supply voltage:        | 12VDC ... 24VDC  |
| Current consumption:   | ca. 30 mA  |
| Protection class:      | IP 65  |
| Connection:            | Connector or Pigtail   |