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Product Overview

Inclinometers

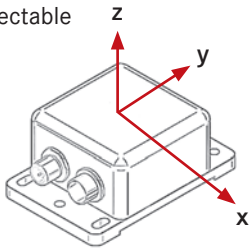


Inclinometers



Crane booms, undercarriages, solar panels, balance bridges and much more. Common to them all, among other things, is that the alignment of the components relative to the horizon, i.e. their inclination in the earth's gravitational field, has to be measured. Our N-series inclinometers serve a wide area of applications, with our devices being distinguished by high measuring accuracy, robustness and the design of hardware and software for safety-relevant operations.

- ❖ MEMS technology (Micro-Electro-Mechanical Systems)
- ❖ Robust housing
100 mm x 65 mm x 42 mm
- ❖ Vibration filter adaptable to the application
- ❖ Also available as printed circuit board
- ❖ Zero setting possible
- ❖ Up to two axes selectable



Product	NBN 65	NBA 65	NKN 55	NKA 55
Interface				
Analogue		Current / Voltage		Current / Voltage
CANopen	available		available	
CANopen Safety	available		available	
Electrical data				
Number of axes	1 or 2 from x, y, z	1 or 2 from x, y, z	1 or 2 from x, y, z	1 or 2 from x, y, z
Measurement range	±5° up to ±90°	±5° up to ±90°	±5° up to ±90°	±5° up to ±90°
Resolution	0,01°	0,01° max.	0,01°	0,01° max.
Measuring accuracy	up to 0,1°	up to 0,1°	up to 0,1°	up to 0,1°
programmable	•	•	•	•
Nominal operating voltage	24 VDC	24 VDC	24 VDC	24 VDC
Temperature compensation	•	•	•	•
Redundant system	available	available	available	available
Redundant system				
Housing material	Aluminium or stainless Steel	Aluminium or stainless Steel		
Connection	Connector cable	Connector cable	wires	wires
Protection class	IP65/IP69K	IP65/IP69K	IP00	IP00
Operating temperature	- 40 ... +85 °C	- 40 ... +85 °C	- 40 ... +85 °C	- 40 ... +85 °C

- ❖ The bootloader feature integrated with many transducers enables the device's firmware to be updated locally by the user by means of the universal programme PMU from TWK.

For safety-relevant applications such as crane construction, inclinometers with SIL2 certification according to IEC61508 are available. The redundant system uses the CANopen safety profile according to CiA DS 304, version 1.0.1.



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For further information and data
sheets with detailed product
descriptions, including examples
of applications, refer to:

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