

Absolute Inclinometers.
For Profibus and CANopen.



Inclinometers

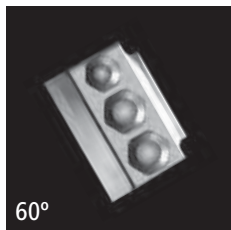
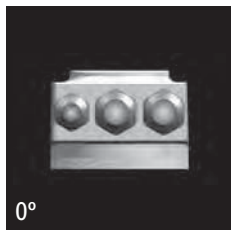
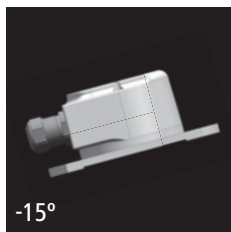
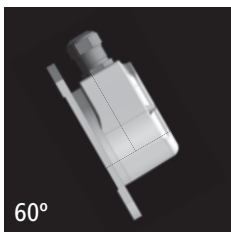
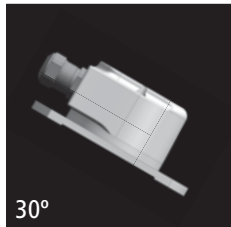
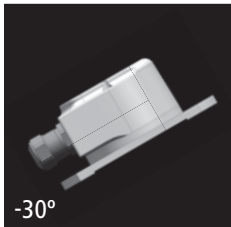
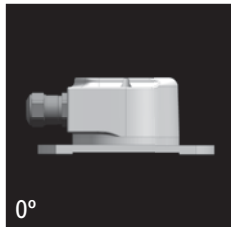
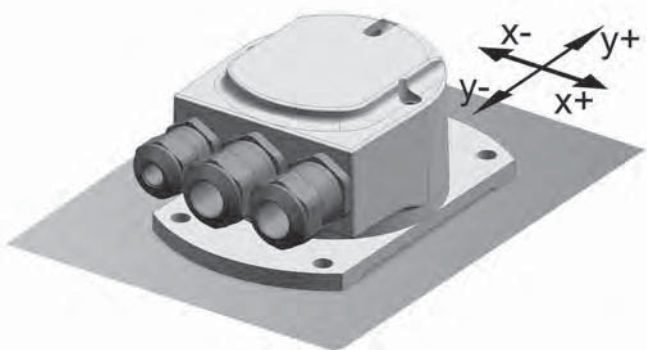
Inclinometers are electronic „water scales“ for sensing misalignments to the horizontal line. These sensors gain more and more importance since they considerably improve safety in industrial instrumentation.

The sensors are capable of detecting the misalignment relating to the horizontal line of nearly any moving object. Integrated fieldbus interfaces of common motion control systems as CANopen and Profibus simplify the use of inclinometers in measuring and sensing technology and consequently also in assembly and handling systems. The tasks for inclinometers are manifold, ranging from accident prevention at cranes, excavators and floor conveyors up to level sensing and machine control.



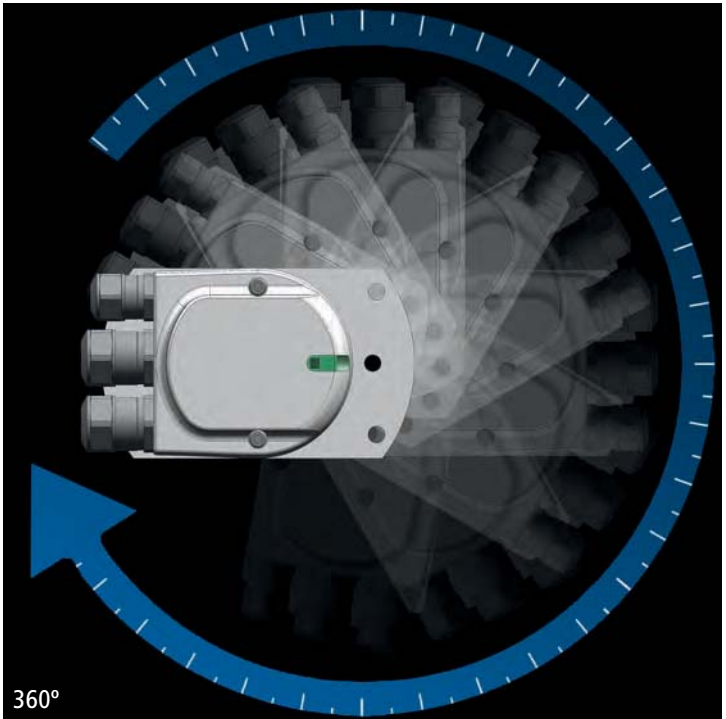
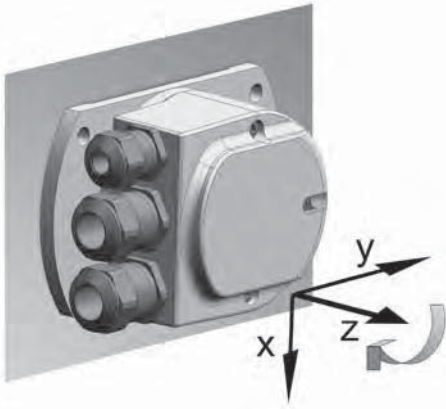
Mechanical mounting

The inclinometers with 15°, 30° and 60° sensing range come with a base plate for quick and secure mounting.



Mounting the 360° sensor

The 360° inclinometer must be mounted in vertical position as shown in the illustration for sensing the slope / rotation relating to the Z axis.



Compact designs

Inclinometers with outstanding high-integration technology and compact design. They come with an aluminium base plate where the sensor in a zinc-die cast housing is mounted. Also available is a stainless steel design.

Specifications

- One-dimensional sensing range: 360°
- Two-dimensional sensing range: 15°, 30° and 60°
- Fieldbus interfaces: CANopen / Profibus-DP
- Resolution: 0,001° to 1°
- Accuracy: 0.1° to 0.5°
- Programmable parameters
- Protection IP 66
- Operating temperature: -25...+85 °C (optional: -40...+85 °C)
- Optional: stainless steel design

Cable or connector output

The inclinometer is available with cable gland or M12 connector output – of course, also both Profibus and CANopen designs.

Configuration

Several configuration options provide utmost flexibility. The shafts can be operated invertedly within a programmable resolution from 0.001° to 1°. You can utilize offsets and permanent presets, especially latter being a vital help in levelling tasks.

Products

Absolute inclinometers are available with a range of 15°, 30° and 60° for sensing the slope of two axis utilizing a resolution of 0.001°.

The product family has come full circle - in the true meaning by a single-shaft 360° sensor detecting the full radius of a circle. Configuration by programmable parameters and diagnostic functions guarantee flexibility and safety in a broad application range.

Product	Axis	Meas. range	Interface
GNAMG.0215P32	2-axis	±15 °	CANopen, cable gland
GNAMG.0225P32	2-axis	±30 °	CANopen, cable gland
GNAMG.0235P32	2-axis	±60 °	CANopen, cable gland
GNAMG.0155P32	1-axis	360 °	CANopen, cable gland
GNAMG.0215PA2	2-axis	±15 °	CANopen, M12 connector
GNAMG.0225PA2	2-axis	±30 °	CANopen, M12 connector
GNAMG.0235PA2	2-axis	±60 °	CANopen, M12 connector
GNAMG.0155PA2	1-axis	360 °	CANopen, M12 connector
GNAMG.0213P32	2-axis	±15 °	Profibus, cable gland
GNAMG.0223P32	2-axis	±30 °	Profibus, cable gland
GNAMG.0233P32	2-axis	±60 °	Profibus, cable gland
GNAMG.0153P32	1-axis	360 °	Profibus, cable gland
GNAMG.0213PA2	2-axis	±15 °	Profibus, M12 connector
GNAMG.0223PA2	2-axis	±30 °	Profibus, M12 connector
GNAMG.0233PA2	2-axis	±60 °	Profibus, M12 connector
GNAMG.0153PA2	1-axis	360 °	Profibus, M12 connector



Excerpt of our list of customers

The Baumer IVO encoders are applied in all branches of industry.

- Drive and power transmission
- Lifts and elevators
- Automotive
- Mining and handling engineering
- Mechanical engineering
- Packaging machines
- Wind power stations



Other products

Encoders

- Absolute encoders
- Incremental encoders
- Cable-pull encoders

Counters

- Electronical counters
- Mechanical counters
- Electromechanical counters

Process displays

- Process displays analog / digital
- Tachometers

Spindle positioning systems

- Spindle positioning displays
- Memory controller
- Target value displays
- Gateways and motors



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