



POSITAL

FRABA

The FRABA Group is a market-leading enterprise that makes use of advanced product design and manufacturing process to ensure that its customers enjoy the benefits of technology leadership, choice, product quality and competitive prices.

Designs and markets sensors for motion control and safety assurance systems. Products include rotary encoders, inclinometers, linear position sensors and a large variety of accessories. These products are used in a wide range of settings, from manufacturing to mining, agriculture to energy.

Incremental Encoders

Many applications require a simple, cost effective solution for accurate positioning. IXARC incremental encoders provide high resolution measurement using an incremental interface. They are available with common configurations such as A, B, Z, and inverted signals available as HTL (Push-Pull) or TTL (RS422).

- Any PPR up to 16384 Available
- Flexible Scaling Functionality
- Compact Size Down to 36 mm Ø
- Optional Stainless Steel and Heavy Duty Housings Available
- High Shock and Vibration Resistance



Absolute Encoders

Motion control applications – ranging from factory automation to control systems for mobile machines – require precise, real-time information about the physical location of mechanical equipment. Absolute rotary encoders can provide precise and unambiguous measurements without losing track of their position due to a temporary loss of instrument power.

- Maintain Position Information When Power is Lost
- Wiegand Technology means No Battery Backup Necessary – Never Change Batteries
- Compact Size - Down to 36 mm Ø
- Stainless Steel, ATEX and SIL Encoders Available
- High Shock and Vibration Resistance





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Kit Encoders

POSITAL's kit encoders offer a unique combination of accuracy, reliability and cost efficiency. Absolute measurement versions provide 17 bit electrical resolution and multiturn position measurements with a range of more than one million revolutions.

Electrical Resolution: Up to 17 Bit, Multiturn: Up to 32 Bit

- Accuracy: 0.1°
- Compact Size: 36 mm diameter, 24.2 mm
- Height Operating Temperature: -40 to +105°C
- Auto Calibration – No Complex Equipment
- Extensive Diagnostic Coverage
- Various Programmable Parameters



Linear Encoders

Many applications require linear motion to be monitored for system control or to ensure safety. With lengths ranging from 1 m to 15 m (3' to 49'), LINARIX draw wire sensors are available in many configurations to meet an application's requirements. Options include a wide variety of outputs (including analog, fieldbus and Ethernet variants), heavy duty housings and compact designs.

- Wide Selection of Measuring Lengths 1 to 15 m (3' to 49')
- Absolute Position Measurement with Resolutions up to 2 μ m
- High Linearity even with Long Cycle Times
- Low Cost yet Rugged Construction
- Scalable Analog Output to Fit Measuring Length

Inclinometers

Inclinometers, also called tilt sensors are designed to measure the angle of an object with respect to the force of gravity. These tilt or level meters determine pitch and/or roll angle and output these values via the appropriate electrical interface. Inclinometers are easy to integrate to an application, because there is no need for mechanical linkages other than just the installation itself – a real advantage for design engineers. Posital developed several inclinometer types to have a suitable solution for different applications for each industry. Accurate measurement of the degree of tilt or inclination from a horizontal position is very important for many motion control systems or to ensure safety.

- Well Protected up to IP69K
- Rugged and Compact Design
- Measurement Range $\pm 80^\circ$ (Dual Axis) or 360° (Single Axis)



Wiegand Sensor

Wiegand sensors are used as a pulse generator in multiple applications. The sensor needs no external power source and has no moving parts. Instead, it exploits the properties of a small diameter wire invented by John Wiegand.

When a magnetic field changes the magnetic state of the Wiegand wire within the sensor, a substantial output pulse is produced which can be used as a power source in an energy self-sufficient revolution counter.

Wiegand sensor products from POSITAL reflect the knowledge from a full decade of experience using Wiegand-effect base revolution counters. The high performance sensors are assembled using SMD mounting technology and can be used for revolution counters in absolute rotary encoders as well as in other applications, e.g. gas or water meters. Advantages

