



POSITION AND MOTION SENSORS

Rotary Encoders – Inclinometers – Linear Sensors

www.posital.com

IXARC INDUSTRIAL SENSORS



Advanced Technology for Superior Position Feedback

As a leading manufacturer with over 60 years of experience, we offer a wide portfolio of rotary encoders. Our range includes absolute encoders, incremental encoders, and modular kit encoders without integral ball bearings. These smart and maintenance-free solutions provide accurate real-time position and motion feedback – even in the most demanding environments.



Absolute & Incremental Industrial Encoders

- > 15+ Communication Interfaces
- > Multiturn – No Battery, No Gears
- > Based on Wiegand Technology
- > Up to 19 bit Resolution



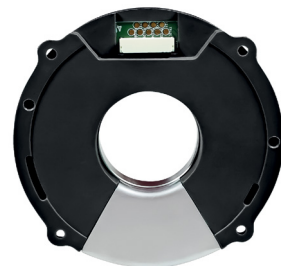
Encoders for Hazardous Locations

- > ATEX Certified Zone 1/21 & 2/22
- > UL Certified Division 2
- > Large Variety of Mechanical Configurations
- > High Shock & Vibration Resistance



Multiturn Modular Encoders

- > BiSS-C, BiSS Line, SSI
- > Compact Size; 36 mm & 20 mm
- > Up to 19 bit Resolution
- > Insensitive to Dust and Moisture



Through Hollow Shaft Kit Encoders

- > BiSS-C, SSI
- > Shafts 30 mm or 50 mm
- > Slim Design (18 mm Thickness)
- > Easy to Install

TILTIX INCLINOMETERS



Precise And Robust Tilt Sensors

Our static and dynamic tilt sensors or IMU provide accurate angle measurements using smart algorithms. Easy to install and free of mechanical linkages, they offer smart, cost-effective integration across industries – from mobile machinery and material handling to medical devices and solar systems – delivering reliable performance even in harsh environments.



Dynamic Inclinometers

- > Clean Measurement in Dynamic Movements
- > Compensation of External Accelerations
- > Output of Accelerations & Rate of Rotation
- > Extended Filtering Capabilities



Compact Inclinometer

- > Cost Effective
- > Up to 360° Single Axis, Up to ±180° Dual Axis
- > Single or Dual Axis Output
- > Teach-In, Preset and Scaling Functions



Heavy Duty Inclinometer

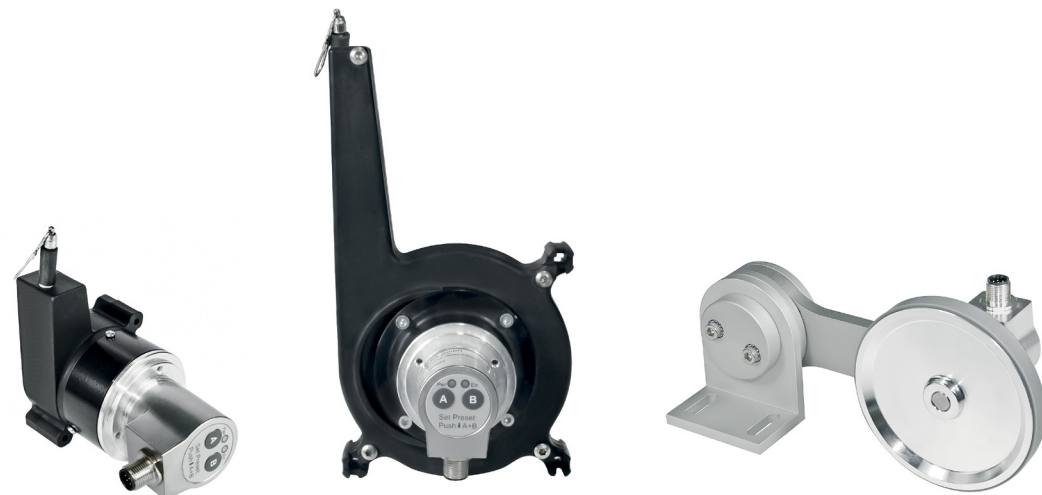
- > Robust, Stainless Steel Housing
- > High Shock & Vibration Resistance
- > Vertical & Horizontal Mounting
- > Up to IP69K



Inclinometers for Explosive Environments

- > ATEX Certified Zone 1/21
- > Ideal for Mining or Oil & Gas
- > Stainless Steel Housing
- > Easy Mounting

LINARIX LINEAR SENSORS



Versatile Linear Sensors

LINARIX linear sensors combine high-precision draw wire and measuring wheel encoders to deliver reliable, accurate position and length measurements. Rugged and versatile, they support analog, fieldbus, and Ethernet outputs – ideal for demanding environments like cranes, lifts, and automated machinery.



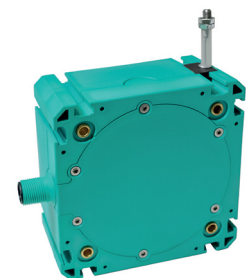
Draw Wire Encoder

- > Measurement Length: 1 to 15 m (3' to 49')
- > Teach-in Functionalities, Scalable Analog Output
- > Robust Metal Enclosures, IP69K
- > Economical, Small Footprint Versions Available



Draw Wire with Built-in Inclinometer

- > Length and Angular Position
- > High Linearity / Accuracy $\leq \pm 0.15\%$ FSO $\pm 0.10^\circ$
- > Ideal for Articulating & Telescopic Boom Lifts
- > Heavy Duty Housing, IP69K



Redundant Linear Sensor

- > Prepared for Functional Safety
- > Output: Analog or RS485
- > Up to 8 m Measuring Range
- > Flexible Mounting & Compact Design



Measuring Wheel Encoder

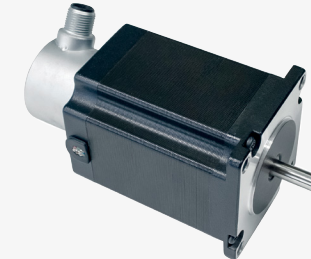
- > Ideal for Cut to Length & Velocity Measurement
- > Knurling, Smooth, Studded & Corrugated
- > Variety of Mounting Designs
- > 15+ Communication Interfaces

INDUSTRIES



Trusted Sensors for Every Industry

With over 60 years of experience, POSITAL delivers sensors trusted worldwide, from compact robotics to heavy-duty equipment in harsh environments. Our mass customization approach offers countless mechanical and electrical options, while our experts work closely with you to find the right solution for your application and industry.



Drives & Robotics

- > Driving and Steering System
- > Handling System
- > Servo & Stepper Motors
- > Industrial & Collaborative Robots



Mobile Automation

- > Construction Machinery
- > Mining & Drilling
- > Agricultural Machinery
- > Defense Equipment



Material Handling

- > AGV's
- > Hoists, Gantry & Port Cranes
- > Forklifts, Scissor Lifts
- > Overhead Conveyors



Production Machinery

- > Food & Beverage
- > Metal Casting Machinery
- > Textile & Plastic
- > Packaging



POSITAL AT A GLANCE

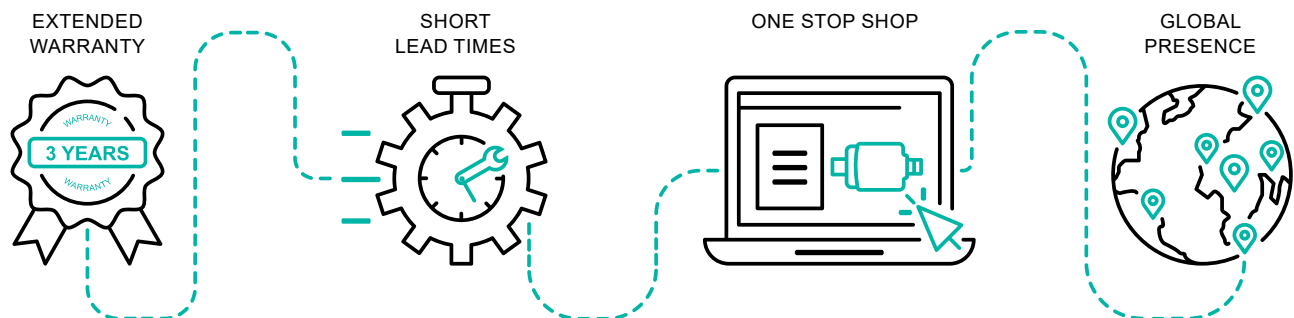


POSITAL designs and manufactures motion control sensors, including rotary encoders, inclinometers, and linear position sensors. These products play a key role in modern manufacturing, robotics, mobile machinery and material handling applications, enabling accurate automation, dependable processes, and higher efficiency.

With its roots in the FRABA Group, founded in Cologne, Germany in 1918, POSITAL benefits from over a century of technological expertise combined with a strong spirit of innovation. Leveraging advanced design methods and highly flexible manufacturing processes, the company ensures that customers worldwide enjoy the advantages of cutting-edge technology, a broad range of options, superior product quality, and long service lifetimes.

- > **Leaders in Innovation Technology**
- > **No Battery, No Maintenance, Based on Wiegand**
- > **Built to Order Production System**
- > **200+ Distributors Worldwide**

- > **Large Product Portfolio – Mass Customization**
- > **Short Lead Times**
- > **Over 60 Years' Experience in Absolute Encoders**
- > **36 Month Warranty**



www.posital.com