



## POSITION AND MOTION SENSORS

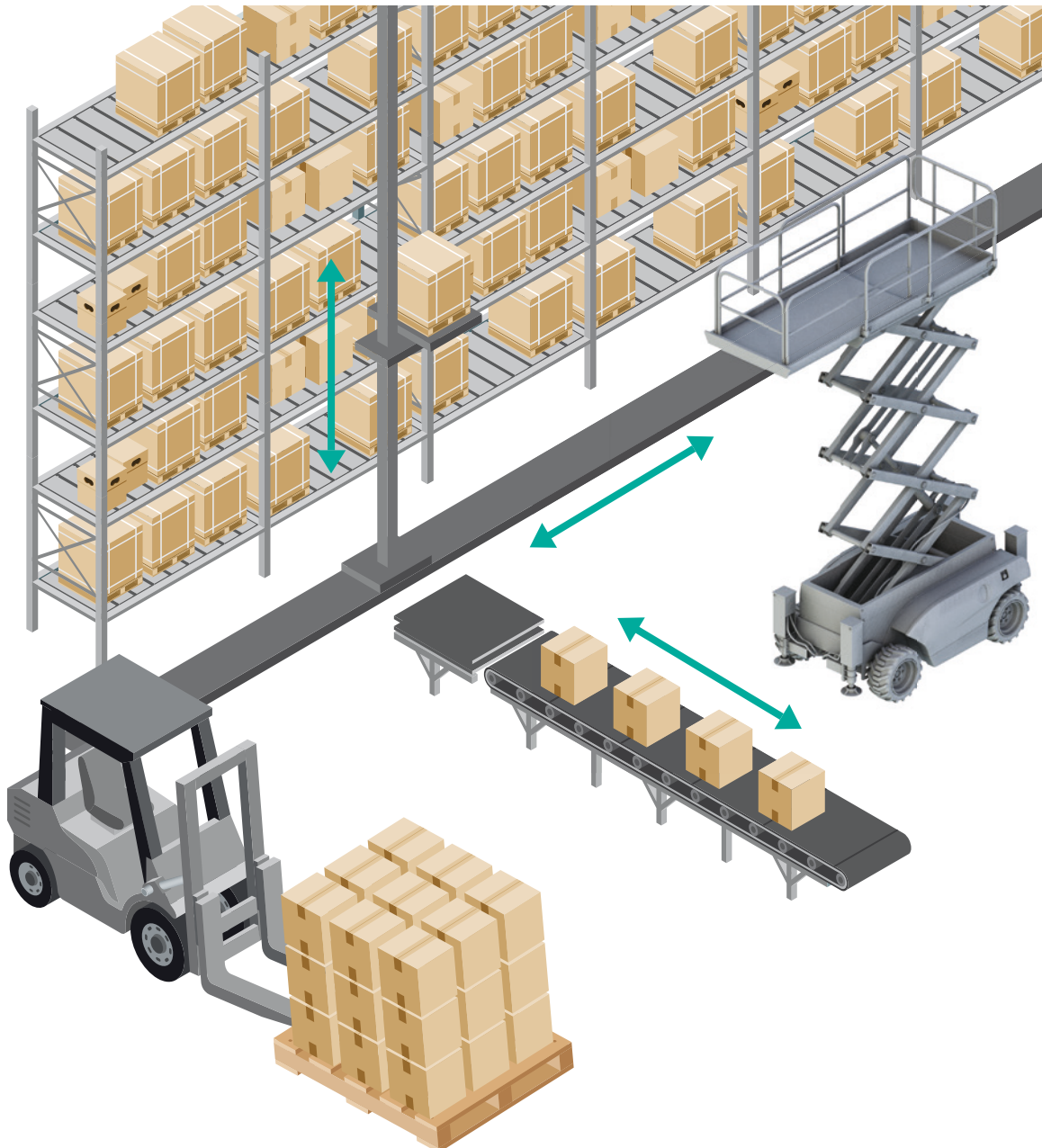


**Sensors for Material Handling**

## POSITAL in Material Handling

Whether it's in a warehouse, a logistics center, a factory or an airport, material handling needs to be efficient, accurate and safe. POSITAL has expertise with diverse material handling equipment over many years. POSITAL sensors are designed to provide accurate rotation, tilt and length measurement in different applications; automated warehousing,

forklifts, conveyors, cranes, aerial work platforms and scissor lifts. With a large variety of mechanical options and communication interfaces, the POSITAL products can be easily installed on any machine from a forklift with simple analog, to a large scale AS/RS or baggage handling systems with Fieldbus or Ethernet.



CANopen



CANopen  
safety easy to use

SAE J1939



ANALOG



ETHERNET  
POWERLINK



EtherCAT





## ➤ IXARC Rotary Encoder

- Operation Temperature -40 to +85 °C
- Environmental Rating: Up to IP69K
- Large Variety of Interfaces
- Up to 16 Bit Resolution
- Different Mechanical Options



## ➤ LINARIX Linear Sensor

- Linear Accuracy up to 0.35 mm
- User Defined Programmability
- Up to 15 m Range
- Different Mechanical Designs and Material
- Large Variety of Interfaces



## ➤ TILTIX Programmable Inclinator

- Compact Housing
- High Accuracy 0.1° and Resolution 0.01°
- Inclination Range: ±80° (2 Axes) or 360° (1 Axis)
- Large Variety of Interfaces
- Environmental Rating: IP67, IP68, IP69K



## Conveyors, AS/RS and Baggage Handling

In automotive production overhead conveyors move the vehicle chassis through the different work stations. In airports the baggage is moved by a labyrinth of conveyors in a fool proof manner. Such conveyors need precise positioning for a successful workflow.



## Hoists, Gantry and Port Cranes

Due to heavy loads and big distances cranes need very accurate positioning. Gantry cranes in warehouses or factories, need to know the exact position and height of the object while port cranes have to accurately place the container on the ships.

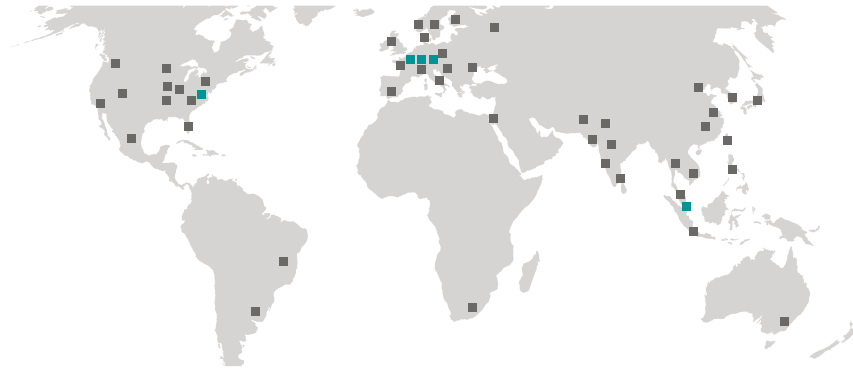


## Forklifts, Scissor Lifts and Aerial Work Platforms

Forklifts and elevating work platforms are used to move material and people to inaccessible areas. Therefore there is a need for constant monitoring of their tilt and height. For aerial work platforms the ground positioning is also needed.



OVER 50 YEARS EXPERIENCE WITH POSITION SENSORS



#### **FRABA Group**

FRABA is a group of enterprises focused on providing advanced products for the motion control and industrial automation markets. POSITAL has been a leading manufacturer of industrial rotary encoders for over 50 years and has expanded its business to include tilt and linear motion sensors. Other FRABA Group subsidiaries include VITECTOR, which focuses on protection sensors to guard doors and production machine covers. FRABA group is also an innovator in product design and manufacturing processes and a pioneer of Industry 4.0.

#### **History**

FRABA Group dates back to 1918, when its predecessor, Franz Baumgartner elektrische Apparate GmbH, was established in Cologne/Germany to manufacture relays. In 1973, FRABA introduced one of the first non-contact, absolute Multiturn encoders. Since then, the company has played a trend-setting role in the development of rotary encoders and other sensor products.

#### **Service and Production**

POSITAL has a global reach with subsidiaries in Europe, North America and Asia – and sales and distribution partners around the world. Products are manufactured in advanced production facilities. The computer-guided, semi-automated production system tracks each device from order, through assembly and testing, to final delivery.

#### **Stand Alone Encoder Business**

POSITAL's unique online product finder provides access to a huge variety of solutions without the need for specialized knowledge. Thousands of easy-to-browse datasheets are available in 11 languages. The traditional practice of customization has been replaced by this new approach. Even with one million unique configurations, standard products are ready to ship within 5 working days.

**Join Our Network!**



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