



Position
Transducers and
Rotary Sensors in
Mobile Applications

Precision you can trust ...anywhere on earth.

Novotechnik offers not only a broad range of standard products, but also the option of customer-specific sensor solutions.

Insensitive even under harsh operating conditions

Our contactless sensors are optimized for the high requirements in mobile applications and are tested to the highest requirements as ISO-pulses and high interferences. In this process, both industry-specific and customer-specific standards are realised. Potentiometers as passive systems are very insensitive to electromagnetic influences anyway.

Whether hot or cold, dusty or damp

Depending on their technology and design, Novotechnik sensors can be used for temperature ranges from -55°C to +140°C.

They do not just satisfy standard protection classes up to IP69K, they are also tested for the most demanding requirements, which exceed the pure standard specifications. This also includes the simultaneous influences of temperature, humidity and fluids.

Reliable and safe

Many series have redundant signal outputs and are suitable for use in safety-related systems up to SIL 3 PLd. In the field of functional safety, our many decades of experience as a supplier to the automotive industry are especially apparent in safety-relevant applications. The sensors are - depending on the applications - resistant to all occurring media such as oils, fuels, salt water etc.

A special focus is the durability of the sensors when exposed to the shocks and vibrations which occur in mobile driven machines.

Passive potentiometers are a simple solution for use in potentially explosive environments.

Certain ATEX zones can easily be covered by using protective circuits for the avoidance of combustible pulses.



Non-contacting, touchless or potentiometric Rotary Sensors RSC, RFD, RFC, RSM, SP

Application

Robust, compact rotary sensors for direct mounting or integration in angle measuring systems

Advantage

- transmissive measurement possible
- cost-effective
- customizable



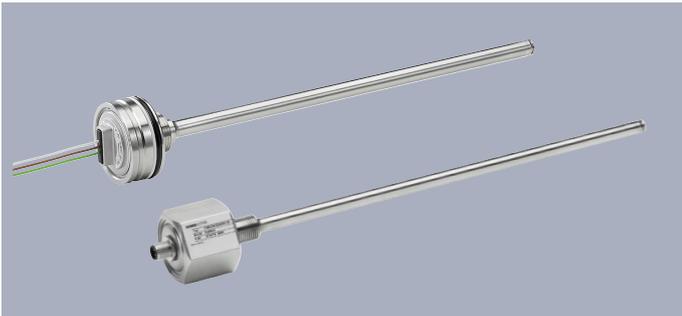
Non-contacting, touchless or potentiometric Rotary Sensors RSX, RFX, RSB, RMB, IPX

Application

Angle measurement under harsh application conditions

Advantage

- suitable for external applications even at exposed locations
- extremely robust and compact dimensions
- developed for highest reliability



Touchless Linear Transducers TIM

Application

Rod-shaped sensor for direct integration into the pressurized zone of hydraulic and pneumatic cylinders

Advantage

- high-precision, direct, absolute and analog linear measurement in extremely rough environment
- welded stainless steel mechanics including electronics for complete installation in a cylinder
- high compressive resistance and unlimited mechanical lifetime



Touchless Linear Transducers LAS

Application

Easy mounting e.g. on synchronizing or steering cylinder with through going piston rod

Advantage

- inductive measuring principle, insensitive against electrical and magnetic fields
- complete encapsulated, high mechanical stability, protection class IP69K, chemical resistance
- redundant sensor with crossed gradient, security level 3, PLd



Potentiometric Linear Transducers LWG, LWX

Application

Pivot heads gimbal-mounted between two connecting points

Advantage

- Long-life precision potentiometer with double-mounted 10 mm stainless steel actuating rod
- patented pressure difference compensation system for protection class up to IP67 even in action
- Heavy-Duty version in all-metal housing, with shaft-protector and exchangeable sealing



Potentiometric Linear Transducers, TX2, TEX

Application

Assembling with various mounting options in different applications

Advantage

- Long-Life precision potentiometer with very high variance for optimized customer solutions
- Linear Transducer with or without restoring spring, protection class IP 40 up to IP67
- Heavy-Duty version in all-metal housing with sintered brass bearing and double sealing

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Representatives worldwide

Today, Novotechnik is represented in all of the world's major markets - be it with our own subsidiaries or by approved dealers.

Wherever our customers will be, thanks to this tightly-knit network we can ensure that, they can rely on first-class service and customer care.

Wherever in the world a linear displacement or an angular position needs to be measured with the highest precision, sensors from Novotechnik are the products of choice. The measuring technology expertise that we have gathered in the course of 70 years represents just one of the secrets behind a success story that began in 1947:

The other cornerstones of our success include a passion for technology and an obsession with precision and reliability. Then, there is our love of solution-oriented thinking, coupled with a fascination with new materials and production methods. And of course, there is our constant awareness of the importance of providing sound advice and first-rate service, complementing our overall goal of continuous improvement of our measuring systems.

The greatest secret of our success, however, has been our passion for devising the best possible solution for each individual customer application. To this end, we will continue to focus on the strengths that made us the successful company that we are today.

Leading OEMs from a multitude of different industries are putting their trust in position transducers and rotary sensors by Novotechnik: be it in general engineering, in hydraulics, in pneumatics, in measuring technology, in medical technology, or in automotive engineering.

And, talking of the automobile industry: more than 50,000 of our sensor components are installed into new cars, each and every day.

Your contacts can be found <http://www.novotechnik.de/nc/en/service/representatives/>