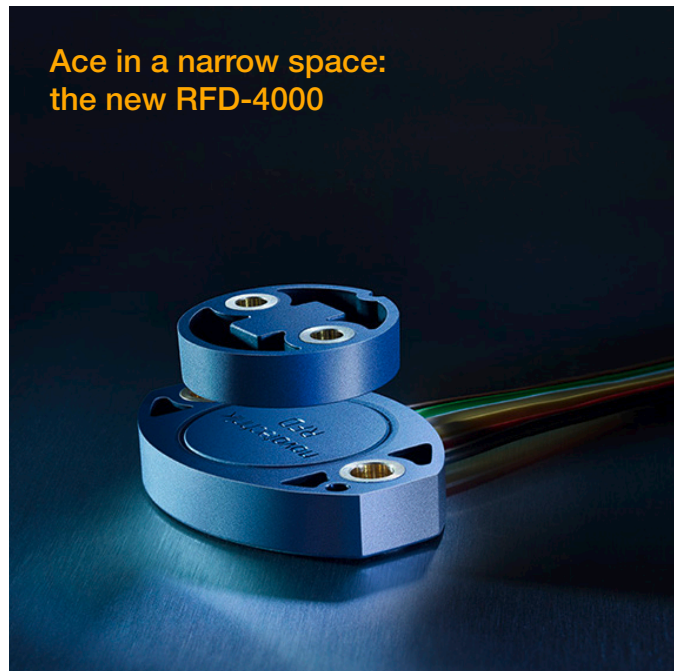


**NOVOHALL  
Rotary Sensor  
touchless  
transmissive**

**Ace in a narrow space:  
the new RFD-4000**



**Precise angle measurement  
in limited spaces:**

The new RFD-4000 is the ideal sensor solution,  
for narrow spaces and tight budgets

## Inexpensive, yet powerful: Super flat, touchless Rotary Sensor



### Features and Benefits

- flat sensor of 7 mm thickness
- high-quality, robust design
- magnetic, absolute
- touchless measuring
- unlimited mechanical life
- protection class IP67 / IP69K
- single and multi-channel designs
- measuring ranges up to 360°
- easy installation
- customized output characteristics

### Reliable and powerful

These sensors meet high requirements:  
They are suitable for measurement angles of up to 360°. They offer a 12 bit resolution and an independent linearity of  $\pm 0.5\%$ . And they are available in single, partially or completely redundant designs.

### Super-Flat

The super-flat sensor housing measures only 7 mm in height. It is manufactured from a robust thermoplastic material, and the two screw mounts consist of injection molded brass bushings. The position marker has a small size, with a diameter of 22.2 mm and a height of 5.6 mm, which features also a thermoplastic material with injection molded brass bushings.

### Suitable for Industrial and Automotive Applications

Even in the face of the most difficult environmental conditions in industrial and automotive technology, the sensors are suitable for a broad spectrum of applications. Completely redundant designs can be utilized for applications where safety is a concern.

And these sensors impress not only through their technological and economic advantages, but also through their attractive designs.



## Construction Machinery

Rotary sensors are used in the slip ring transmitters of construction machinery, where they facilitate the transmission of energy and data between the rotating mounts and the mobile undercarriage, as well as the sensing of the excavator arm's position.



## Agricultural Machinery

Be it in harvesters, in tractor attachments for hoe, rotary cultivator, and tiller positioning, in planters and cutters, or in balers - wherever a high degree of protection and unlimited mechanical life are required.



## Valve Control

Novotechnik's position transducers and rotary sensors provide for the precise control and setting of valves, guarantee the desired flow volume, and reliably and continuously monitor the position sensing of setting devices.



## Machine Engineering

For the control of tension adjustment and take-off speed in textile, packaging, or wire winding machinery, in labeling machines, or position sensing for dancer applications. In all these settings, the design without bearings is advantageous.



## Medical Technology

Whether in medical diagnostic equipment, such as CT or mammography devices, or the positioning of patients, in respiratory, x-ray, or rehab devices: Where exact data are crucial for survival, Novotechnik's sensors are on call.



## Household Electronics ("White Goods")

Sensors for application-specific system solutions for electric and household appliances excel with their optimum cost-benefit ratio. At the same time, precision and quality are not neglected.



## Transmission / Throttle Valve

Temperature fluctuations, extreme vibrations, and moisture are challenges to the precision, safety, and reliability of sensors in engine and transmission management. Their redundant designs are suitable for applications where safety is a concern, such as in steering angle sensors.



## Material Handling

The current trend in automotive design is towards the electronic transmission of all operator commands. Electronic systems reduce expensive hydraulic assemblies and ensure greater ease of use as well as safety. Such solutions can be achieved with reliable sensors.



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 65 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.

## 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.

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