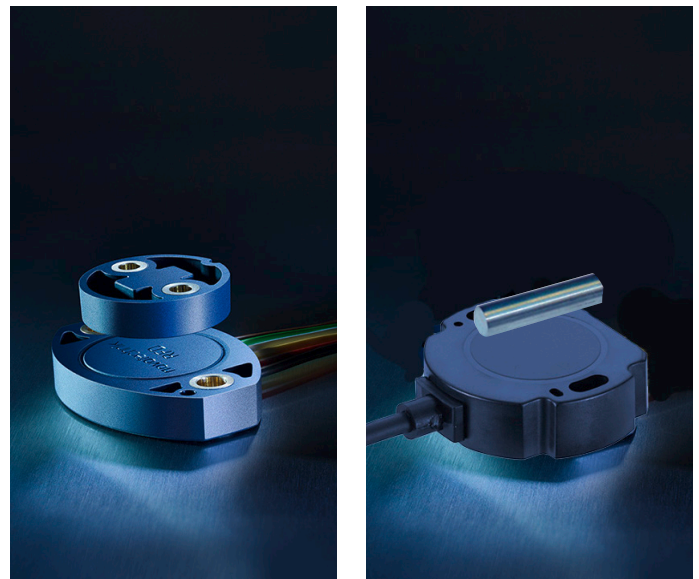


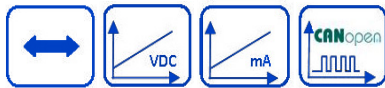
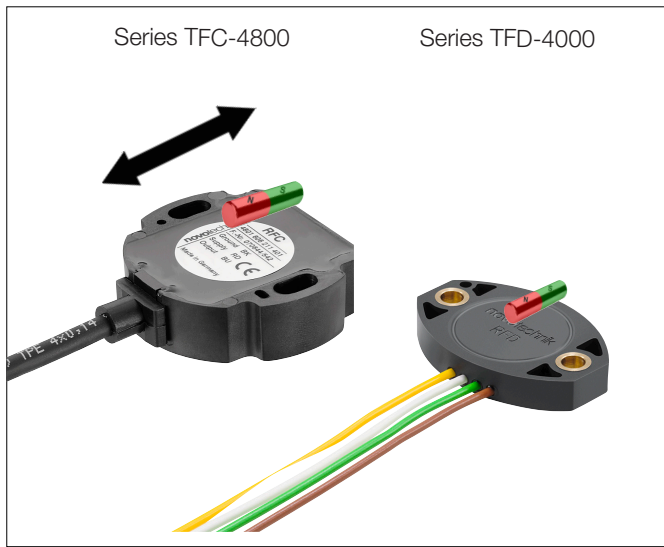
**NOVOHALL  
Transducer  
touchless  
transmissive**



**Linear Position Sensing in Tight Spaces:**

The new TFD-4000 and TFC-4800 Series -  
Touchless Measuring of Short Distances

# Inexpensive and Compact: Touchless Linear Transducers



## Special features

- Touchless, magnetic measurement technology
- Unlimited life expectancy thanks to the absence of mechanical couplings
- Compact designs
- Measuring range 5 to 50 mm
- Analog (current / voltage) and field bus interfaces
- Various output characteristics
- Single- and multi-channel designs
- Resolutions of up to 14 bits
- Broad temperature range of -40 to +125°C
- Protection class up to IP6K9K
- Suitable for tough environmental conditions
- Excellent EMC characteristics
- Suitable for industrial and mobile applications

## Inexpensive and Compact

The new touchless position sensors of the TFD-4000 and TFC-4800 series are ideally-suited for measuring distances of 5 to 50 mm.

These sensors yield highly precise measurement data across a broad temperature range, even in the presence of vibrations, and under tough environmental conditions. The completely potted electronics ensure protection up to IP6K9K, high media resistance, and an unlimited life-expectancy.

These sensors are available with analog interfaces (voltage/current) or field bus interfaces (CANopen) and with various output characteristics to suit your application needs.

## Competent Design

Our many years of experience in the development, production, and application of magnetic sensors as well as our state-of-the-art simulation tools, allow us to provide you with optimal designs to suit your applications.

Our products undergo extensive tests and validations in order to ensure that they meet general quality standards and also your individual requirements.

During product development, in the course of product launches, and for routine QC purposes, our products undergo various environmental tests.

For this demanding task, Novotechnik relies on a well-equipped testing bay that provides us with a multitude of possibilities.

## Suitable for Industrial and Mobile Applications

In the face of the most difficult environmental conditions in industrial and mobile technology, the sensors are ideally suited for a broad spectrum of applications.

Completely redundant designs can be utilized for applications where safety is a concern.

These sensors impress not only through their technical and economical advantages, but also through their attractive and extremely flat design.

## What you can measure us against

There are countless applications for Novotechnik sensors. For example, our solutions ensure maximum efficiency of large solar power plants. They enable innovative steering of SEGWAY Personal Transporter and assume control tasks in the high-speed ICE trains. Formula 1 teams put their trust in Novotechnik sensors in chassis, gearboxes and engines and a large number of mobile machine manufacturers relies on them in the agricultural and construction machine industry.

Our sensor solutions have traditionally proven themselves in open and closed-loop control systems and automation of processes in mechanical engineering, and specifically in the field of plastic injection moulding technology.

Novotechnik products can also be found in the engine management of motor vehicles and in medical technology.

Non-contacting, touchless or potentiometric: We offer our linear and rotary sensors in different technologies.

Novotechnik commands the technology and the experience to competently support you in your endeavours and to help you find solutions.



## Measurement Applications for Actuators

The sensor is used to provide feedback for positioning drives regulating valve throughputs.



## Measurement Applications for Two-Wheeled Vehicles:

In motorcycle applications, the sensor serves as setpoint generator, capturing the driver's desires, even as they are being communicated via the accelerator.



## Measurement Applications for Hydraulic Valves

The sensor captures the plunger's position, in order to determine the differential pressure within a hydraulic system.



## Measurement Applications for Bottling Plants

In beverage bottling plants, the sensor captures travel distances, ensuring exact bottling volumes.

Novotechnik  
Messwertaufnehmer OHG  
Postfach 4220  
73745 Ostfildern (Ruit)  
Horbstraße 12  
73760 Ostfildern (Ruit)  
Telefon +49 711 4489-0  
Telefax +49 711 4489-118  
info@novotechnik.de  
www.novotechnik.de



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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.

Your contacts can be found [www.novotechnik.de/service](http://www.novotechnik.de/service).



Wherever a linear displacement or angular position needs to be measured with the highest precision, sensors from Novotechnik are the first-choice solution.

The expertise in measuring technology that we have amassed in the course of more than 65 years is just one of the secrets behind a success story that began back in 1947.

The other cornerstones of our success include a passion for technology and an obsession with precision and reliability. Then there is our delight in devising solutions, 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 topclass service, as we strive day-by-day to optimise our measuring systems.

But the secret of our success has always been our passionate pursuit of the best possible solution for each individual customer applications.

And to ensure that we remain the first-choice partner for our customers, in future we will be staying focused on the strengths that made us the successful company that we are today.

Leading OEMs from a whole spectrum of industries put their trust in position transducers and rotary sensors made by Novotechnik:

be it general engineering, hydraulics, pneumatics, measuring technology or automotive engineering.

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