novotechnik
Siedle Group

Linear and Rotary Sensors



Railway Technology

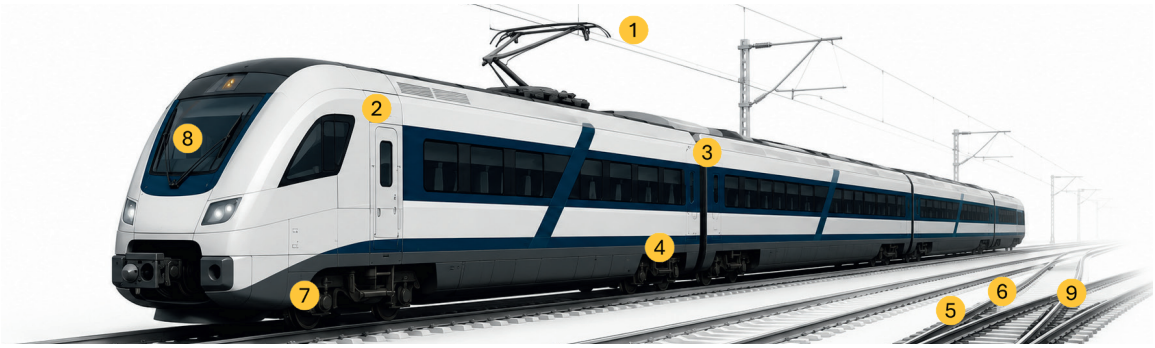
Precision that makes a difference.

Reliable sensor solutions for rail technology – for greater safety, efficiency, and availability

Sensors used in rail vehicle applications must operate continuously and reliably—regardless of harsh conditions such as vibrations, temperature fluctuations, humidity, and long lifespans. The requirements for precision, robustness, and availability are correspondingly high, as these sensors support essential functions in rail operations.

Our rotary and linear position sensors support numerous applications in rail sector — rolling stock as well as infrastructure. From door leveling and speed displays to measurement and control tasks in plumbing, HVAC, and utility systems. Thanks to their robust design and high measurement accuracy, they ensure safe and reliable operation.

Our product portfolio includes sensors with various electrical interfaces, ranging from analog outputs to digital interfaces such as CANopen, SSI, and IO-Link—suitable for every application.



1. Pantograph
2. Doors
3. Articulation
4. Brake wear
5. Track maintenance
6. Track measurement (width, wear)
7. Active centering / Level sensing / Load monitoring
8. Speed control
9. Railway switch position

Rotary Sensors

RFC-4800 / RFD-4000

Touchless Rotary Sensors





- Hall technology – wear-free and durable
- Two-part sensor design
- Redundant outputs for safety applications
- High protection class up to IP69K

1 2 4 8

RSC-2800 / RSA-3200 / RSX-7900

Non-contacting Rotary Sensors







- Hall technology – wear-free and durable
- High EMC resistance
- High protection class up to IP69

3 5 7 8

P-4500 / SP-2800

Potentiometric Rotary Sensors





- High resolution, high precision
- Cost-effective
- Protection class up to IP54

2 5 7 8

Linear Sensors

TEX, TX2, T/TS, TR/TRS

Potentiometric Linear Sensors



- A wide variety of mounting options:
  - Cardanic via pivot heads
  - Via retaining clip on the profile housing
  - Centrally mounted via thread at push rod
- Protection class up to IP67

6 8

TM1

Integratable Linear Sensor

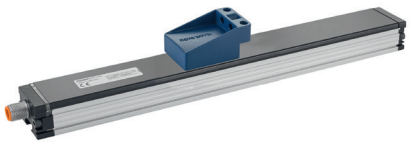


- Magnetostrictive measurement principle
- High resolution and signal stability
- Can be integrated into hydraulic cylinders
- Pressure-resistant up to 350 bar
- Protection class up to IP69

5 6 7

TF1

Touchless Linear Sensor



- Highly dynamic, inductive measurement principle
- High tolerance to external magnetic fields
- Contactless, wear-free
- High resistance to shock and vibration
- Protection class up to IP67

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About Novotechnik

Your partner for sensor technology.

Wherever in the world distances and angles need to be measured with precision, sensors from Novotechnik are the top choice.

It is our passion for technology, as well as our uncompromising commitment to precision and reliability. It is our enthusiasm for finding solutions, as well as our interest in new materials and manufacturing techniques.

It is our strong commitment to consultation and service, and our goal of continually perfecting our measurement systems.

Reliable

Sturdy and durable

Custom Solutions

Global Presence

Your Contact

Whether it's consulting, project planning, or technical support—our team is here to help you.

Do you need technical information?

Get quick help here:

+49 711 4489-250

support@novotechnik.de

Our Representatives Worldwide

Today, Novotechnik has a presence in all major markets around the world, both through its own offices and through qualified distribution partners. Thanks to this network of direct channels, we can ensure that our customers receive first-class service anywhere in the world.

Here you will find all of our representatives worldwide and your contact person:

https://www.novotechnik.de/en/contact/representatives/

