



Experts in Railway Applications

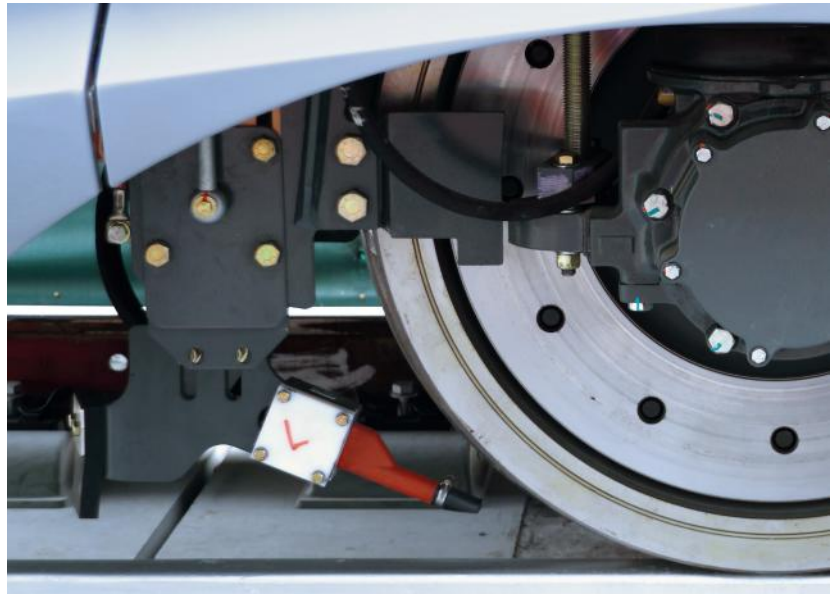
Sensors, pole wheels and diagnostic system for rolling stock

High-speed Train
EMU/DMU
Tramway
Subway
Trolleybus





SIGNALLING



BRAKE



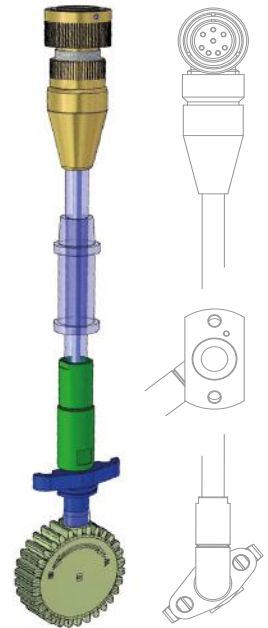
Multi Channel Speed Sensor

- 2 or 3 galvanic insulated circuits
- 3 or 4 channels
- Robust design
- Effective combined solution for upgrade, retrofit and new applications



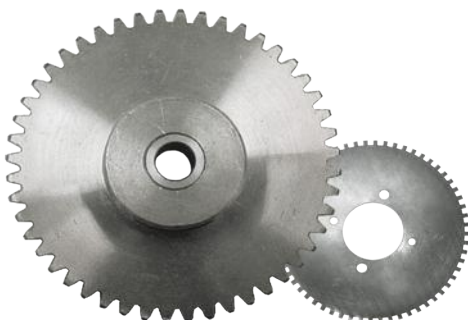
Eddy Current Speed Sensor

- Works with aluminum and steel targets
- Low power consumption
- Wide range of power supply
- Frequency up to 20 kHz
- Target module 2 to 7
- According to EN 50155



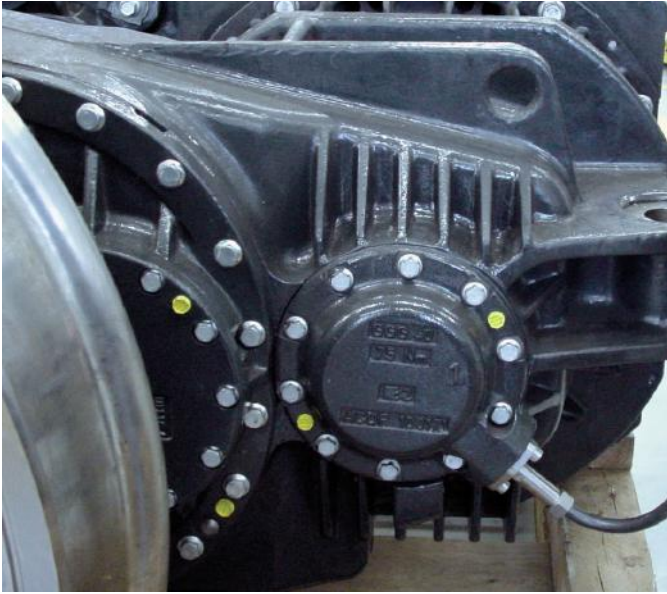
Modular Design matched to your demands

We develop, produce and distribute speed sensors for advanced equipment in the railway industry. More than 155,000 railway sensors are in operation.



Targets – Pole Wheels

- Teeth designed for optimum signal output
- No contact to the sensor
- In steel, aluminum or other magnetic materials
- Module 1 to 6, on request
- Customized solutions



PROPULSION



ENGINE DIAGNOSTICS

ALPHABOX – The Predictive Diagnostic System for Engines

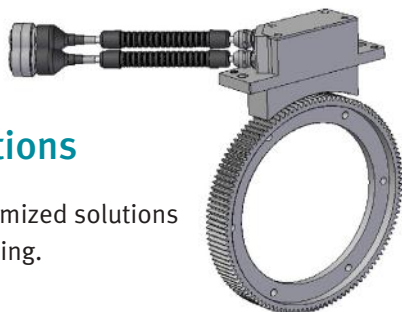
ALPHABOX only requires the input signal from a crankshaft speed sensor to analyze torsional vibrations as an early indication of possible mechanical failure in your engine.



Hall Effect Speed Sensor

- Stainless steel flange version for harsh environments
- Reliable 1- to 4-channel sensors
- High degree of EMI immunity
- Long term stability
- Static or dynamic behavior

Optional: galvanic separation, interpolation, integrated temperature measurement



Integrated Solutions

We offer complete customized solutions including signal processing.

- Reduced space and weight
- Easy maintenance easy replacement
- Combined temperature and speed measurement



Designed for

- Cylinder-by-cylinder diagnostics
- Early detection of engine problems
- Extension of engine lifespan
- Clear and concise report
- Entire fleet installation
- Quick return on your investment
- A cost efficient solution
- Easy to install and commission
- Maintenance-free use
- Remote and local access to data
- Ideally suited for retrofit engines
- Continuous monitoring and reporting

Swiss know-how and quality matched to your demands

JAQUET manufactures speed sensors in quantities from 1 to millions per project and year. These mostly customer specific solutions add value through being matched to individual applications. **Since 1889, a spirit of excellence complementing tradition and innovation.**



Automotive turbochargers

Turbocharger for trucks, passenger cars, construction equipment

- Speed of VG/VN turbochargers
- Gearbox shaft and retarder speed



Railway systems

- Optimum traction control
- WSP (wheel slide protection) systems
- Speed information for automatic train control



Power generation

Gas, hydro, steam and wind turbines

- Overspeed protection
- Speed measurement and control



Hydraulics

Agricultural machinery, construction and mining equipment, cranes, ROV – remote operated vehicles

- Motors and pumps, flow-rate measurement
- Position measurement, traction synchronization



Diesel and gas engines

Large diesel and gas engines in marine, rail, off-road applications and power production.

- Cam and crank shaft for dynamic position
- Turbocharger speed, engine diagnostics

Quality systems

ISO TS 16949
ISO 9001
AS 9100
IRIS

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