



Experts in railway applications

Sensors, pole wheels and encoders for rolling stock

High-speed Train
EMU/DMU
Tramway
Subway
Trolleybus





SIGNALING

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



Eddy Current Speed Sensor

- Works with aluminum and steel targets
- Reduced weight by using aluminum
- EMC according to EN 50155
- Shock and vibration proof ENV61373, cat. 3
- Unaffected by run-out, vibration and electric motor magnetic fields



ENGINE DIAGNOSTICS

Diesel Engine Monitoring System MDS 4500

The MDS 4500 system provides a health check for your diesel or gas engine by analyzing the acyclic content of the crank shaft speed. It can deliver accurate diagnostic information cylinder-by-cylinder and monitor the efficiency of your engine during normal operations.

- Ensures the efficient operation of your diesel engine
- Helps to avoid excessive fuel consumption caused by various problems
- Reduces maintenance costs
- Delivers early detection signals of engine failure





BRAKE



PROPULSION

Modular Design matched to your demands

We develop, produce and distribute speed sensors and axle encoders for advanced equipment in the railway industry. More than 100,000 railway sensors 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

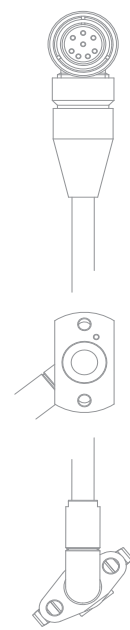
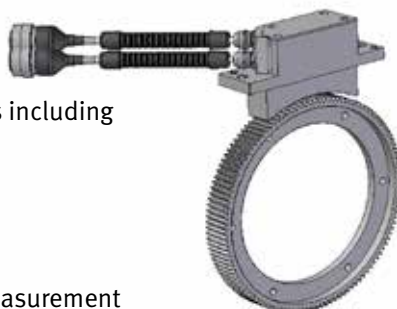
Axle-End Encoder

- Robust, light and waterproof IP 66 aluminum housing
- Shock and vibration proof EN61373, cat. 3
- High EMC interference immunity according to EN50121-3-2
- 1 to 4 channels

Integrated Solutions

We offer complete customized solutions including signal processing.

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



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



Worldwide and local to you through

JAQUET Technology sales offices, subsidiaries and distributors.