micromax

JAQUET
TECHNOLOGY GROUP

Experts in Railway Applications

Sensors, pole wheels and encoders for rolling stock

High-speed Train
EMU/DMU
Tramway
Subway
Trolleybus

IRIS Certification

SIGNALING

ENGINE DIAGNOSTICS

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

ALPHABOX – 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.

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

BRAKE

PROPULSION

Modular Design matched to your demands

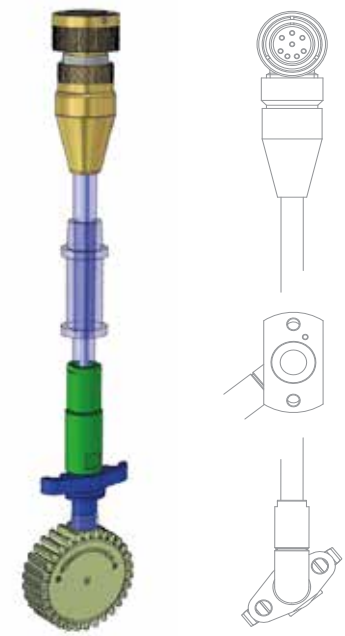
We develop, produce and distribute speed sensors and axle encoders for advanced equipment in the railway industry. More than 140,000 railway sensors in operation.

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

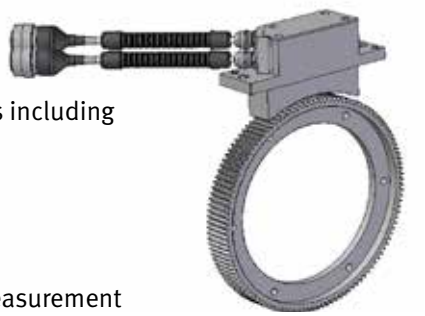
Axle-End Encoder

- 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

JAQUET TECHNOLOGY GROUP

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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