



## JAUQUET solutions for truck and automotive industries



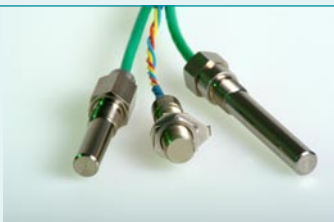
### TURBOCHARGER SPEED

The optimum use of variable geometry and variable nozzle turbocharger technology is dependent on the reliable measurement of speed within a harsh environment e.g. in the bearing housing or at the compressor wheel. JAUQUET is the world leader in speed sensor solutions for all turbocharger applications in both trucks and passenger cars. You can rely on our decades of experience in this field to bring the right technology, installation package and electrical interface to your advantage.



### ENGINE MONITORING & DIAGNOSTICS

Our MDS 4000 monitoring and diagnostic product range provides a window into the performance and behaviour of diesel engines. Based on established theories of engine behaviour, MDS 4000 measures the finite variations in rotational speed and from that calculates engine torque, power output and most importantly individual cylinder work in real time. OEM configurations can then be used for gearbox control, performance display and for on board diagnostics. The payback is in reduced fuel consumption & minimized maintenance costs, whilst maximizing vehicle in service time.



### ELECTRONIC CONTROL OF HYDRAULICS

Secondary power sources are often created in industrial truck and off-highway vehicles using hydraulic motors and pumps. Measuring hydraulic motor speed provides a cost effective means of achieving electronic control. The new JAUQUET HALL-ASIC is configurable as a 2 or 3 wire sensor providing both speed and direction information. A patented circuit ensures near zero current consumption in the event of an output short circuit and broken wire detection is available for safety critical applications. Quick fit housings that can withstand high oil pressure are provided to suit the OEM requirement.



### CAM AND CRANKSHAFT SPEED

No matter whether your requirement is for low volume custom solutions for highly demanding military applications or high annual volume quick fit designs for truck engines, JAUQUET offers you a competent and professional partnership, which starts with an understanding of your technical requirements.



### CUSTOM PRODUCTS

JAUQUET solutions don't stop with standard product lines. Tomorrow's innovations are constantly under development for a range of applications, with gearbox actuator position measurement, sensing of 2 gear speeds with one sensor and non-contact data coupling being just a few examples. We look forward to being challenged by your requirements.

JAUQUET TECHNOLOGY GROUP offers the world's most versatile and advanced range of solutions for the detection, measurement, diagnosis and management of rotational speed.

Our industry and application specific expertise ensures that you will achieve an optimum solution. Completely matched to your individual requirements, meeting key industrial standards and certifications, our products help boost the performance of your machinery while reducing cost of ownership.



#### TYPICAL INDUSTRIES SERVED

- Automotive and truck
- Aerospace
- Diesel / Gas engines
- Hydraulics
- Railway
- Turbines
- Turbochargers
- Industrial machinery



#### PRODUCTS – SPEED SENSORS

- Various technologies
- Standard, custom and OEM models
- For demanding applications, e.g. 300,000 rpm, temperature up to 320 °C / 600 °F, high vibration, shock to 200 g, etc.
- GreenLine speed sensors for general applications
- Ex models for hazardous areas
- Pole bands and target wheels available where needed



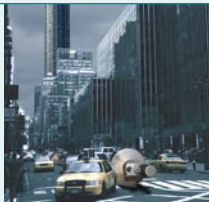
#### PRODUCTS – SYSTEMS

- Multi-channel overspeed protection systems
- 1–2 channel measurement, protection and control modules
- Engine diagnostic systems
- Redundant speed measurement and indication



#### SPECIAL PROJECT EXAMPLES

- An automotive linear movement sensor
- Integrated power and torque measurement for display and gearbox control
- Naval spec. turbine protection for nuclear submarines
- Speed measurement in turreted, tracked vehicles



#### QUALITY MANAGEMENT AND STANDARDS

- Quality management: TS 16949 and ISO 9001, ZELM ATEX 1020, KWU
- Sensors: GL, KWU, TÜV, ATEX, EN 50155, NF F 16-101 102, ABS, EMC
- Systems: IEC 61508 SIL 2 and SIL 3, API 670, GL, TÜV, KWU, EX
- Environmental: RoHs - EU directive 2002/95/EC



#### JAUQUET – YOUR PARTNER

- Efficient and professional service - JAUQUET TECHNOLOGY GROUP is headquartered in Basel, Switzerland and has subsidiaries in Belgium, China, Germany, the Netherlands, United Kingdom and United States along with a worldwide distributor and end-user service network.
- Flexible production quantities; from 1 to millions per project
- Reduction of total costs by intelligent and cost-effective solutions
- Fast turn around time