bf1systems

Sensors

High-performance sensors engineered to deliver accurate, reliable data in the world's most demanding motorsport, automotive, aerospace and defence applications.

Pressure | Temperature | Speed | Linear Position
Laser Ride Height | Rotary Postion | Air Speed
Accelerometer | Force Measurement

Combined Pressure and Temperature Sensors

Why have two separate sensors when a single combined pressure and temperature sensor saves space, weight and overall cost? With a range of solutions to suit your application, our combined sensors present engineers with an optimised installation package, while providing reliable monitoring of critical fluid and gas systems in demanding applications.

Pressure Sensors

Accurate, repeatable and reliable pressure measurement is critical across applications including fuel, oil, coolant, hydraulic and pneumatic circuits. With a range of parts covering different pressure ranges, physical sizes, thread specifications and budgets, we have a solution for your application.

Temperature Sensors

Whether you need to monitor the temperature or fluids or gases, in any application, our temperature sensors offer a range of sizes and sensor specifications to suit the application, allowing engineers to optimise performance, reliability and thermal management.

Linear Position Sensors

With a measurement range of 12.5mm to 450mm, our linear position sensors combined high accuracy with long term reliability, for precise monitoring of position in applications such as suspension travel, actuator position, and mechanical movement, enabling engineers to optimise performance, validate designs and monitor system behaviour.

Air Speed

Our separate air speed sensor and pitot tube assembly provides accurate air speed measurements, whilst also providing significant flexibility with the mounting of the parts allowing them to be mounted in a variety of locations and engineers to optimise aerodynamic performance.

Speed Sensors

Robust, noise resistant speed sensors provide the critical data needed to monitor wheel speed, gearbox operation, and engine speed in demanding motorsport and vehicle development applications.

Laser Ride Height Sensors

Available in 200mm and 500mm measurement ranges, our laser ride height sensors are trusted at all levels of motorsport to provide accurate, repeatable measurements across a range of surfaces and at high temperatures. An unparalleled level of configurability allows teams to optimise sensor setup in real time, and ensure that critical ride height data is always available.

Force Measurement

With 25 years of experience instrumenting everything from pushrods to steering columns to damper top hats, to splitters and pedals, we know what is required to create force measurement solutions that provide the measurements that are really required, in a reliable, accurate way.

Infrared Temperature

Where non-contact temperature measurement is required, we have a solution to enable this. Standard parts include a variety of multi-point temperature measurement for tyre temperature monitoring, as well as single or multi-point brake disc temperature measurement.

Rotary Position Sensors

Our non-contact rotary position sensors are available with a variety of measurement ranges including multi-turn, and also have a range of options including mounts, interfaces and outputs allowing for uses such as throttle position, steering column position and suspension position.

Accelerometer

Providing accurate measurement of longitudinal, lateral and vertical acceleration, our accelerometers help engineers understand vehicle behaviour, optimise setup and validate design performance.

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The Competitive Advantage

Explore our full sensing portfolio