



Key Features

- Strain gauge technology
- Wide operating temperature range
- Fast response time
- Versatile compatibility

Applications

- Anti-lock Braking System (ABS)
- Electronic Stability Control (ESC)
- Integrated Brake System

Derivative Applications

- Hydraulic suspension system
- Air suspension system

HYDRAULIC BRAKE PRESSURE SENSOR

High Pressure Sensor

TE Connectivity's (TE) Hydraulic Brake Pressure Sensor continuously monitor the hydraulic pressure within the brake lines, providing critical data to the Electronic Control Unit (ECU) for optimal brake performance. This sensor is a crucial component in modern braking systems, playing a vital role in providing safe and efficient vehicle operation.

Engineered Durability

Leveraging TE Connectivity's extensive experience in pressure sensor design, this sensor is engineered to endure and perform in harsh conditions. With a design that helps mitigate the risk of assembly damage, it upholds integrity and reliability across diverse automotive environments.

High Performance with Long-term Stability

Through the use of the latest silicon strain gauge technology, this sensor offers high sensitivity, precise measurement capabilities, and exceptional stability.

Functional Safety

TE's experience and proficiency in Functional Safety (FuSA) design help partners in achieving their safety objectives, making these sensors a trustworthy choice for safety-critical braking applications.

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HYDRAULIC BRAKE PRESSURE SENSOR FEATURE SHEET

High Pressure Sensor

PERFORMANCE SPECIFICATIONS

The specifications provided are an example of standard offerings tailored to common design needs. If you're looking for a customized solution to fit unique project specifications, our team is ready to offer in-depth support. Contact your local sales representative or click 'Connect with an Expert' below to learn more about our custom solutions.

Product Type	High Pressure Sensor
Product Technology	Silicon Strain Gauge on Stainless-steel
Measurement Ranges	
Operating Pressure	0 ~ 30MPa. Can comply with customer requirements
Proof Pressure	<40MPa
Burst Pressure	<40MPa
Performance	
Operating Temperature	-40 ~ 130°C
Pressure Accuracy	±1.8%FS initial, ±2.0%FS over product lifetime with 4 sigma criteria
Temperature Accuracy	< ±10°C
Response Time	< 10ms
Output	
Supply Voltage	4.75 ~ 5.25V
Supply Current	13 mA, Max.
Interface (Digital, 3P)	SENT, SAE J2716 Dual Pressure and Temperature Out
Mechanical Interface	
Pressure Connection	Metal to metal sealing through clinch-fit into Al block
Fluid Compatibility	Brake fluid DOT3, DOT4, DOT5 and CHF 11S, CHF202
Electrical Connection	Spring pin to PCB-A or Contact pads or Leadframe
Special Features	
Functional Safety	ASIL C (D)
Durability	Engineered for high durability, the sensor maintains its integrity in challenging environments
Quality	Manufactured in ISO 7 Clean Room

HYDRAULIC BRAKE PRESSURE SENSOR FEATURE SHEET

High Pressure Sensor

Have a unique challenge? We've got you covered.

At TE, we understand the critical role of precise, high-quality sensors in automotive engineering. Our solutions, developed through advanced engineering capabilities and industry application knowledge, are tailored to meet demanding technical requirements. Around the world, we provide responsive service and seamless integration into your existing systems. If you're looking for sensors that deliver both performance and reliability, let's connect. Our team is ready to discuss how we can contribute to the success of your next project with our customized sensor solutions.

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NORTH AMERICA
Tel +1 800 522 6752

EUROPE
Tel +31 73 624 6999

ASIA
Tel +86 0400 820 6015

te.com/sensors

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