

BRAKE PRESSURE SENSOR

Sensata Micro Strain Gauge (MSG) brake pressure sensors are a flexible sensing solutions, which monitor hydraulic pressure and provide signal input to various automotive systems. The pressure signal combined with temperature information can be used to optimize system performance and enable additional functionalities.



Features

- Robust and reliable piezoresistive Micro Strain Gauge technology
- ISO26262 ASIL Compliant
- Compact and adaptable design
- Support both SENT and Analog communication
- Low current consumption
- Quick response times

Benefits

- Proven technology with hundreds of millions of sensors in the field
- Small size and lightweight design
- Improves braking performance and enables additional functionalities
- Best cost performance
- Supports advanced braking applications
- High signal accuracy and product quality

SPECIFICATIONS

Sensata manufactures a variety of low to high pressure sensors, suitable to support future advanced applications like Brakes and Suspension. All options are ISO 26262, with different pressure range, operating temperature, output type and accuracy. For better selection, look at the table.

Pressure Range (different options are available)	0-50 bar 0-180 bar 0-250 bar 0-300 bar
Proof Pressure (different options are available)	150 bar 250 bar 300 bar
Burst Pressure (different options are available)	250 bar 300 bar 350 bar 450 bar
Hermetic	Yes/No
Technology	Micro Strain Gauge
Mounting (different options are available)	Clinch Clinch/O-ring Thread
Housing Material (different options are available)	Stainless steel Stainless steel 305SS AISi7
Connection Type	Spring 3x USCAR KeyD (Can be customized)

Operating Temperature (different options are available)	-40° to 120° C -40° to 125° C -40° to 130° C
V Supply (different options are available)	5.0V ± 0.25V 5.0V ± 0.375V
Typical Accuracy (different options are available)	±1.7% FS ±2% FS ±3.2% FS
Output Type	SENT, Analog
RoHS Compliant	Yes
Supporting ISO 26262	Yes
IP protection class (different options are available)	IP30 Solid 6Kx Water x9K
Media (different options are available)	Air Oil Fuel
Appication	Brakes, Suspension, Transmission

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