VACUUM BRAKE BOOSTER SENSOR

The brake booster pressure sensor measures the relative pressure in the vacuum booster. In operation, the transducer senses the difference between the applied pressure and the atmospheric pressure via strain-sensitive piezo-resistors which are implanted in the silicon MEMS die membrane. Changes in resistance are converted into an output signal.

Features

- Proven MEMS technology with millions of sensors in the field
- Best cost performance
- Flexible calibration possibilities to meet specific customer control strategies
- Support both analog or digital SENT communication

Benefits

- Brake booster pressure monitoring which allows for optimized vacuum pump control
- Allows for detection of booster leakage
- Small size and lightweight design

Sensata manufactures a variety of low to high pressure sensors, suitable to support future advanced applications like Brakes (booster).
For better selection, look at specifications.

SPECIFICATIONS

***Pressure range**	-105 to 0 kpa rel -112 to 2.3 kpa rel
***Proof pressure**	400 kPa abs
***Burst pressure**	1000 kPa abs for 1 minute
Technology	MEMS
***Mounting**	Radial O-ring seal, quick fit connection (male/female)
***Operating temperature**	-40° to 125° C
***V supply**	5.0V ± 0.25V
***Typical accuracy**	≤1.6% FS
Output type	SENT, Analog
Supporting ISO 26262	On request
***IP protection class**	IP66
***Media**	Air
Application	Brake system

* Different options are available

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