

## FORCE SENSOR FOR ELECTROMECHANICAL BRAKING (EMB)

Innovatively designed force sensor for use as part of closed loop control within the caliper or drum of an Electromechanical Brake (EMB) system. This flexible technology, based upon Sensata’s Multi Strain Gage Technology helps to facilitate faster reaction compared to conventional hydraulic and electrohydraulic braking systems and provides a high accuracy output enabling EMB system optimization and customization. Technology can be scaled to support both EMB applications on both front and rear axles.



### Features

- Robust and proven piezoresistive Micro Silicon Strain Gauge technology
- Suitable for caliper & drum brakes, for both front and rear axle brakes
- Force range: 0-65kN
- Analog & SENT output
- ASIL-C compliant possible with SENT output

### Benefits

- Compact design
- Accurate force measurement enabling consistent system performance under all conditions
- Specifically designed for integration into brake calipers and drums
- Supports next generation Electromechanical Braking architecture

## SPECIFICATION

Force Ranges	0-65kN	0-45kN	0-25kN	0-40kN
Application	Cast Iron calipers	Cast Iron & Aluminium calipers		Simplex & Duo-servo Drum
Sensing Technology	Micro Strain Gauge			
ISO 26262 compliance	ASIL C			
Operating temperature	-40°C - 150°C			
Voltage supply	5V +/- 0.25V			
Output	SENT, Analog available			
Sensor fixation (if needed)	Press fit, o-ring, retaining ring, others			
Connection	3 spring connection			Wire attached to terminal

Other sensor specifications available upon request

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