

Features

- Non-contacting sensor technology
- MR or HE technology
- Sensor can be placed outside of the gearbox
- Linear option also available
- Electronic calibration

Applications

- Park lever position detection
- Electric park brake

Rotary Gearbox Park Position Sensor

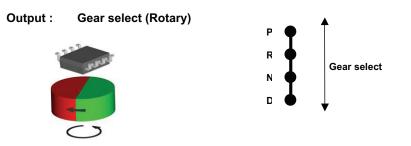
Introduction

The Bourns® Rotary Gearbox Park Position Sensor senses the rotary or linear displacement of the park lever in an automatic gearbox application. When the park position is selected in the gearbox, the park engagement pin shifts to lock the transmission. The feedback from this sensor works in conjunction with the TCU to ensure that the park lever is released only if the brake pedal is depressed. This prevents a vehicle from lurching forward if started in gear.

The sensor may be placed internally or external to the gearbox depending on the available space.

The signal may be used to decouple the torque converter to save fuel and/or to trigger the engagement of the Electro-Mechanical Park Brake (EMPB).

Rotary Gearbox Park Position Sensor - 1D Rotary Sensor Vout/Vdd [%] Diagnostic Band (High) 90.0 Clamping High Clamping Low 10.0 Diagnostic Band (Low) Angle MR **Total Angle**



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Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

Typical Parameters

Total Range 60 °*
Measurement Range (MR) 40 °*
Air Gap Magnet Sensor 1~8 mm typical
Operating Temperature40 to +125 °C
Protection DegreeTBD*
Linearity± 3 % full scale MR
Resolution< 0.3 % MR
Supply Voltage 5 ± 0.25 V
Supply Current< 20 mA
Output Modes Analogue, PWM

* Application Specific

For higher temperature range or improved accuracy applications, please contact Bourns engineering.

Automotive Division

Europe:

Bourns Sensors GmbH Eschenstrasse 5 D 82054 Taufkirchen

Phone: +49 89 80 90 90 0

The Americas:

Bourns, Inc.

1660 N. Opdyke Road, Ste. 200 Auburn Hills, MI 48326-2655 USA

Phone: +1 248 926-4088

Asia:

Bourns, Inc.

10F, No. 146, Sung Jiang Road Taipei, Taiwan, 104 PRC Phone: +886 2 2562-4117

www.bourns.com

automotive@bourns.com