

# BOURNS®

Our engineering and production centers



Agricultural, construction and material handling vehicles require sophisticated precision control to achieve maximum performance.

Active steering, exhaust gas recirculation, electronically controlled suspension, and computer controlled fuel systems are some examples of the increased presence of electronics in these vehicles.

One of Bourns' key strengths as an industry leader is the ability to utilize core technologies to provide products specifically designed for customers' applications.



Engineering Centers

**Bourns, Inc.**  
Riverside, California  
U.S. Headquarters

**Bourns Sensors GmbH**  
Sauerlach, Germany

**Bourns, Inc.**  
Auburn Hills, Michigan  
USA



Production Centers

**Bourns Kft.**  
Ajka, Hungary

**Bourns Xiamen**  
Xiamen, China

**Bourns de Mexico**  
Chihuahua, Mexico

**Bourns de Mexico**  
Tijuana, Mexico



*Let Bourns provide you with an innovative solution!*

[www.bourns.com](http://www.bourns.com)

**BOURNS®**

**Transportation  
Products**

### Customer Service:

Americas: Tel +1-951 781-5500  
Fax +1-951 781-5700

EMEA: Tel +36 88 520 390  
Fax +36 88 520 211

Asia-Pacific: Tel +886-2 256 241 17  
Fax +886-2 256 241 16

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*Innovative Solutions for  
Heavy-Duty and Off-Road  
Equipment*

*Utilizing decades of experience in the automotive industry, Bourns is focused on selecting the most suitable technology for your specific application requirements.*

# Position and Speed Sensors

Bourns has provided position sensing products to the automotive industry for nearly 20 years and is capable of producing a custom sensor for your application.

Bourns' sensing technologies are favored design-ins for applications with a high demand for reliability in harsh environments.

Bourns is also a leading provider of components and solutions for circuit protection, circuit conditioning, panel controls and motion control.

## Vehicle Dynamics Sensors

### Steering

- Absolute Steering Angle Sensor
- Incremental Steering Angle Sensor
- Torque Sensor
- Torque and Index Sensor
- Torque and Angle Sensor
- BLDC Motor Position Sensor

### Chassis

- Chassis Level Sensor

### Braking

- Brake Pedal Sensor
- Passive and Active ABS Wheel Speed Sensors

## Engine & Powertrain Sensors

- EGR Sensor
- ETC Pedal Sensor
- Throttle Position Sensor
- Fuel Level Sensor
- Transmission Speed Sensors

## Comfort Sensors

- Hollow Shaft Encoder for Powered Closure Systems
- HVAC Air Flap Sensor
- HVAC Temperature Control
- Steering Reach and Rake Position Sensor
- External Mirror Position Sensor
- Seat Position Sensor
- Headlamp Leveling



Hall Effect-based Linear Position Sensor



Magneto Resistance-based Angular Position Sensor



Chassis Level Sensor



Non-Contacting Throttle Position Sensor



Torque and/or Torque Angle Sensor



Brake Wear Sensor



ABS Wheel Speed Sensor



Transmission Speed Sensor

## Bourns® Component Offering

### Circuit Protection

- ChipGuard® ESD Suppressors
- Gas Discharge Tube (GDT) Surge Arrestors
- LED Shunt Protectors (LSPs)
- Resettable Fuses - Multifuse® PPTC
- TBU® High-Speed Protectors (HSPs)
- Telefuse™ Telecom Protectors
- SinglFuse™ Thin Film Chip Fuses
- Thyristor Surge Protectors - TISP® Thyristors
- Transient Current Suppressors - TCS™ High-Speed Protectors

### Circuit Conditioning

- Trimpot® Trimming Potentiometers
- Chip Arrays
- Chip Diodes
- Chip Resistors
- Inductors, Transformers & Power Chokes
- Modular Contacts
- Precision Potentiometers
- Precision Resistors
- Resistor Networks
- RF Power Resistors

### Panel Controls

- Dials
- Industrial & Consumer Panel Controls

### Motion Control

- Contacting and Non-Contacting Rotary Position Sensors
- Encoders
- Linear Motion Potentiometers