

Stoneridge Advantage

Stoneridge's family of Non-Contact Rotary Position Sensors (RPS) is designed for manufacturers requiring a higher degree of accuracy ($\pm 1\%$ linearity), reliability and durability while still constraining price. Stoneridge Rotary Position Sensors are designed specifically to perform in externally mounted environments and adeptly handle rocks, mud, water, snow and extreme temperatures. The unique magnetic design coupled with a high-volume automated production line make this product family a cost effective solution for any rotary position sensor application.



Features

Quality

- Accuracy of $\pm 1\%$ linearity
- Operating temperatures from -40° to $+150^{\circ}\text{C}$
- Tested to over 10 million cycles
- Surface-mounted solid-state electronics
- Environmentally sealed electronics
- Weather-tight connector
- ISO/TS 16949:2004 quality systems

Adaptable

- Input voltage of 5V
- With or without mechanical stops
- With or without return springs
- Compact package size customized to application
- Interface flexibility

Programmable

- Rotation angle from 0° to 360°
- PWM or analog outputs
- Single or redundant outputs

Diagnostics

- Over/under voltage protection
- Open/short circuit protected
- Reverse polarity protected
- EMC and ESD optimized and tested from -40° to $+150^{\circ}\text{C}$

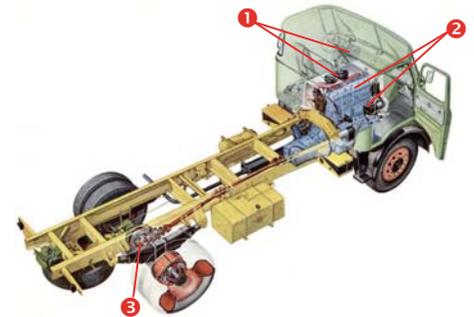
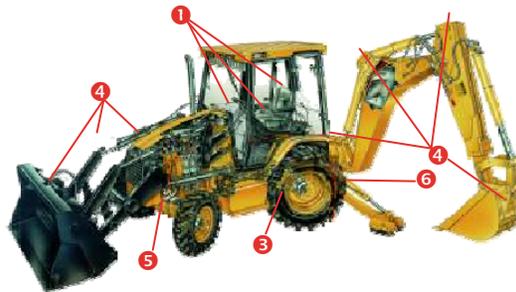
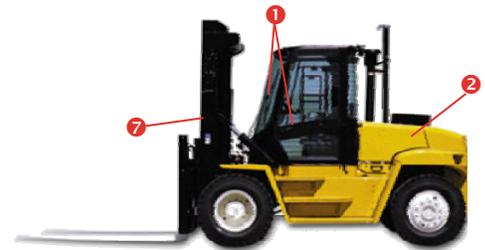
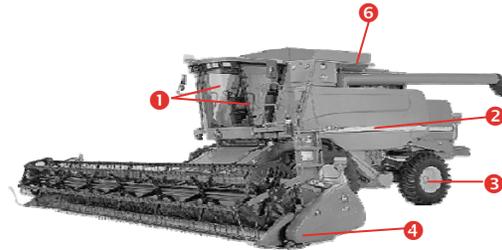
Typical Applications

Automotive / MD-HD Truck / Con-Ag

- Transmission gear selection
- Agricultural implement location
- Adaptive lighting leveling
- Pedal position
- Throttle position
- Transfer case mode position



Other Applications



- 1 Customer actuated controls (pedals, levers, steering, etc)
- 2 Power train position sensing (EGR, throttle, transmission)
- 3 Height feedback (suspension, loader, wheel, cultivator)
- 4 Depth control (agricultural equipment, armature, implements)
- 5 Steering (rear steer, verification of actuators)
- 6 Lock/position verification (stabilizers, safety interlocks)
- 7 Angle indication

Unique Product Applications

- Dump truck tilt angle
- Crawler track position location
- Seeder shoot opening size
- Bail size measurement
- Plant row locator
- Brake wear indicator

CONTACT US:

Stoneridge Inc.
Control Devices Division
 300 Dan Road
 Canton, MA 02021 USA
 Tel: 781-830-0340
 Email: sales@stoneridge.com

North America Sales:

Stoneridge Inc.
 28001 Cabot Drive
 Suite 100
 Novi, MI 48377 USA
 Tel: 248-489-9300

European Sales:

Stoneridge GmbH
 Paradiesweg 11
 73733 Esslingen, Germany
 Tel: +49 711 9933820

Asia-Pacific Sales:

Stoneridge Asia Pacific Electronics (Suzhou) Co., Ltd.
 Shanghai Branch
 Room 805 INNOV Tower
 1801 Hongmei Road,
 Xuhui District, Shanghai
 200233
 P.R. China
 Tel: +86 21 3395 0304
 Fax: +86 21 3395 0387

Stoneridge Korea

#807 Hangang Posville
 33-1, Dangsandong-5ga
 Yeongdungpo-gu, Seoul
 150-045 Korea
 Tel: +82-2-2633-0672
 Fax: +82-2-2633-0673

Stoneridge Japan

3-21-2 Helios Kannai Bld.
 4F Motohama-cho,
 Yokohama city, Kanagawa
 Japan 231-0004
 Tel: +81(0) 45-222-8317
 FAX: +81(0) 45-222-8283

Stoneridge is an independent designer and manufacturer of highly engineered electrical and electronic components, modules and systems principally for the automotive, light/medium/heavy-duty truck, agricultural and off-highway vehicle markets. Our products provide engineered solutions that improve the efficiency and performance of electric and electronic systems.

*The **Control Devices Group** focuses on products that sense, switch and control a specific function. Our key technologies include:*

- Electromechanical Actuators
- Customer Actuated Switches
- Emissions Sensors
- Solenoid Coil Valves
- Powertrain Switches and Sensors
- Pressure Switches and Sensors
- Speed Sensors
- Temperature Sensors
- Position Sensors
- Emissions Sensors