

Series 285 New Product Brief

Flange mount non-contacting Hall-effect rotary position sensors are designed for the most demanding applications in the industrial, medical, and transportation markets. With over 20 years of experience in non-contacting solutions for automotive applications, CTS is now bringing this technology to industrial grade rotary position sensors with the release of the Series 285 Flange Mount Non-Contacting Rotary Position Sensor. Quality, performance and reliability are core aspects of this series of rotary position sensors.



Precision rotary position sensors with traditional contacting technologies have been used in many applications over the years. The introduction of non-contacting technology into rotary position sensors has improved product performance to provide longer life and compatibility in harsh environments. Improved performance results in higher reliability, better quality and longer deployment in the field while reducing associated

Features

- » Non-contacting Hall-effect technology
- » Rotational Life: 10M (sleeve bearing)
- » Precision linearity ($\pm 0.5\%$ and $\pm 0.25\%$ options)
- » Precision hysteresis ($0.2\% V_{sup}$)
- » Wide operating temperature range (-40°C to $+125^{\circ}\text{C}$)
- » Seal options (IP 50, 54, and 67)
- » 5.0 VDC and 3.3 VDC options
- » Internal magnetic shield
- » ROHS and REACH compliant*

*ROHS3 Directive 2015/863 Amendments of Annex II on March 31, 2015.

Benefits

- » Elimination of wearing electrical contacting parts
- » Extended field deployment
- » Allows for consistent and precise position sensing
- » Suitable for use in extreme cold, hot, wet, and dusty environments
- » Power option flexibility
- » Protection against EMI

Custom/Value Added Options

- » Electrical and mechanical angle customization
- » Shaft/Bushing diameter & length customization
- » Output options (i.e. PWM, SSI, SPI, CANbus, etc.)
- » Ball bearing for extended life
- » Terminal options
- » Cable/connector customization
- » Dual output option

(Other options available upon request)

Product Fit & Applications

This product series is best suited for applications where the reliability and long life associated with non-contacting technology are required, and where customers understand the

Industrial Automation

- » Valve controllers and actuators
- » Material handling equipment
- » Food and beverage processing
- » Automated assembly and packaging
- » Robotics

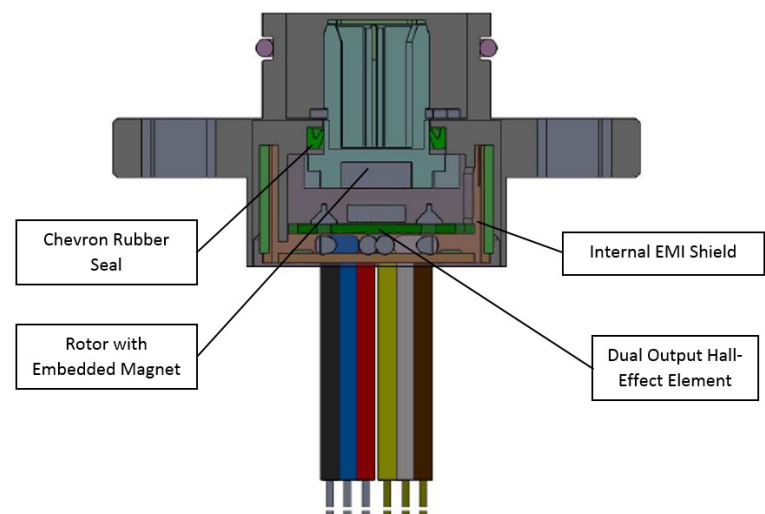
Off-Road Vehicles

- » Throttle-position sensors
- » Throttle for EFI
- » Riding lawn mowers
- » Small engine applications

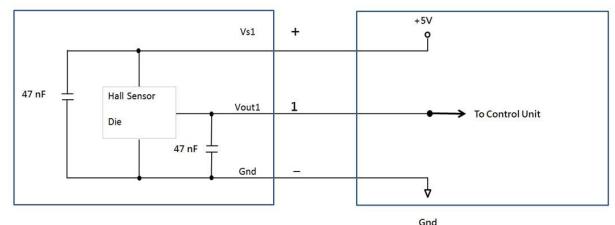
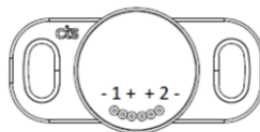
Transportation and Marine

- » Cycle/Scooters
- » Train seat positioning
- » Boat throttle controls
- » Ship propulsion
- » Rudder position feedback

Basic Construction



Circuit Diagram



CTS (NYSE: CTS) is a leading designer and manufacturer of products that Sense, Connect and Move. CTS manufactures sensors, actuators and electronic components in North America, Europe and Asia, and supplies these products to OEMs in the aerospace, communications, defense, industrial, information technology, medical and transportation markets.

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