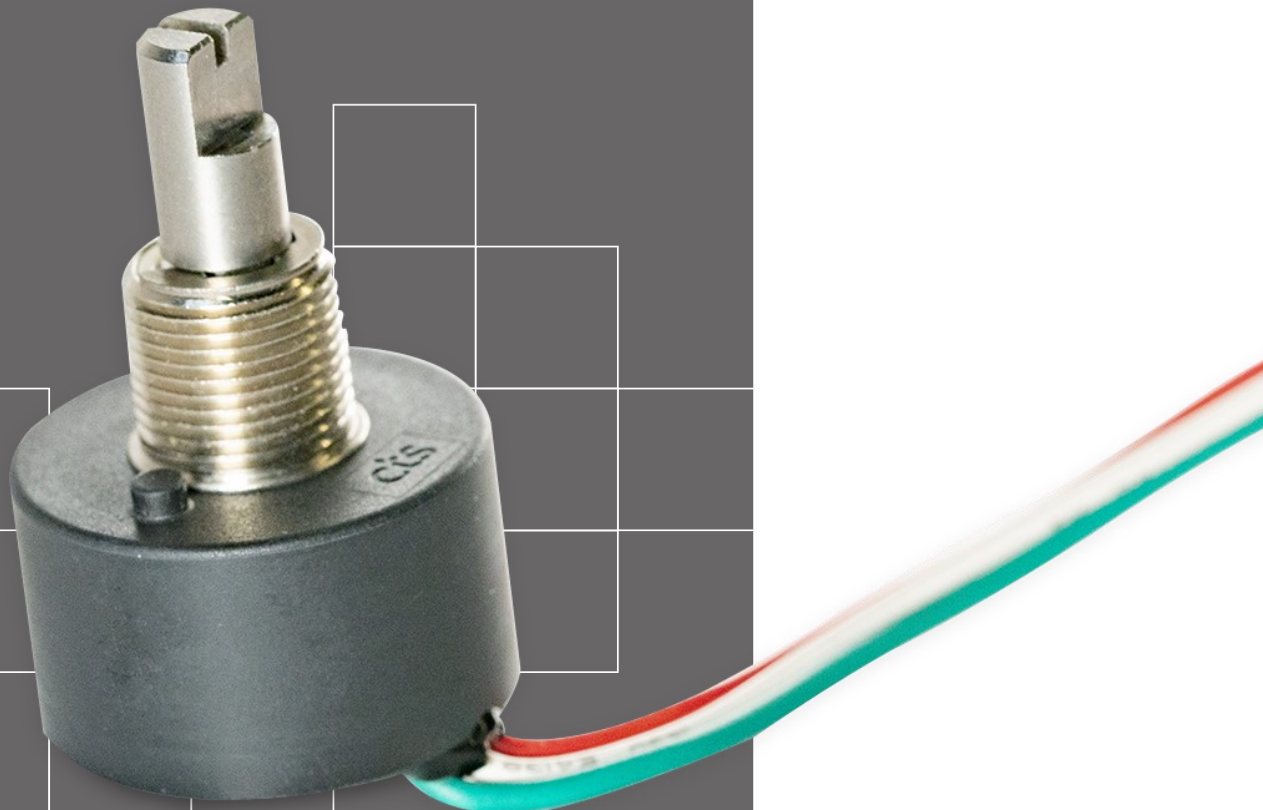


Series 285

New Product Brief

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 Non-Contacting Rotary Position Sensor.

Quality, performance and reliability are core aspects of this series of rotary position sensors.



Precision rotary position sensors have been used in many applications with traditional contacting technologies. The introduction of non-contacting technology into this product 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 maintenance and replacement costs. Demand for reduced maintenance cost, reduced equipment down-time, and increase in equipment efficiency leads equipment designers to technologies that are more dependable and will provide reliable performance.

Features

- » Non-contacting Hall Effect technology
- » Rotational Life: 10M (sleeve bearing) or 50M (ball 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

(Available Upon Request)

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

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 value proposition of this product in the following market segments:

Industrial

- » Wheel balancing equipment
- » Flow valves
- » Pneumatic control valves
- » Draw wire position sensors
- » Material handling
- » Riding mower

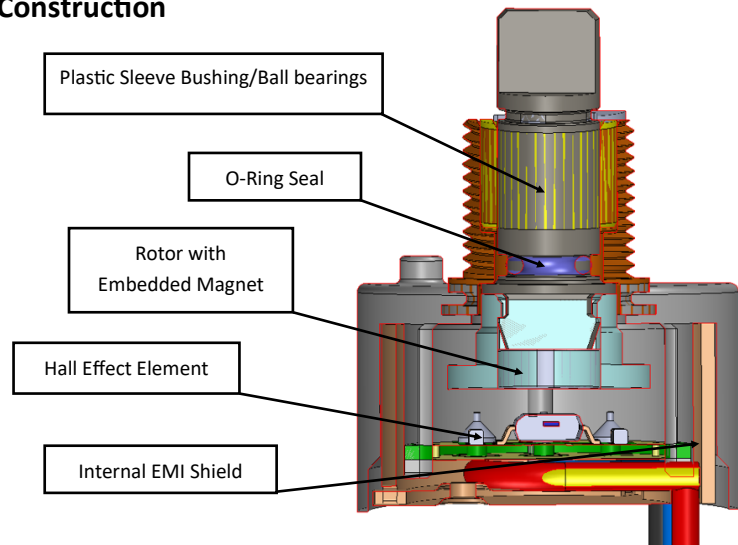
Medical

- » Patient platform
- » Dental chair
- » Mobility equipment

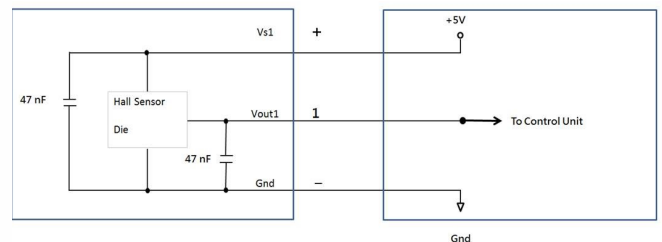
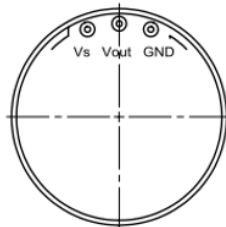
Transportation

- » Cycle/Scooters
- » Agriculture equipment
- » Construction equipment
- » Light rail

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. This product is now available through select CTS qualified distributors. Samples can be requested through authorized CTS Sales Representatives. For additional product information, please see the data sheet at www.ctscorp.com. Please send all technical inquiries to sensorscontrols@ctscorp.com.

Place contact information/business card in this space.

CTS Corporation Contact our team at:

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