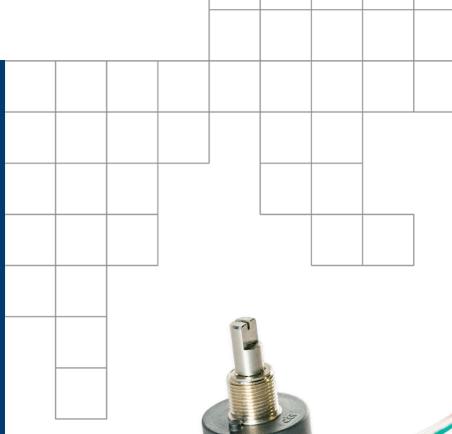




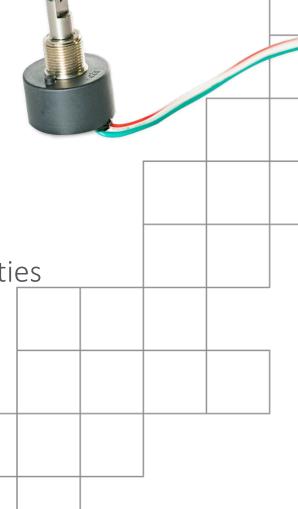
Series 285 Rotary Position Sensor





Agenda

- Product Overview
- Hall-Effect Technology Overview
- Product Assembly Exploded View
- Features & Benefits
- Product Custom/Value Added Capabilities
- Value Proposition
- Target Applications
- Sales Collateral

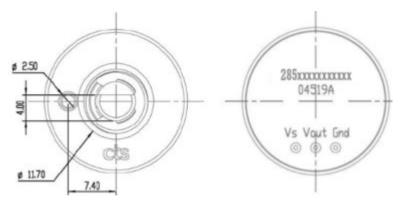


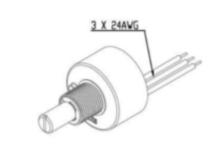


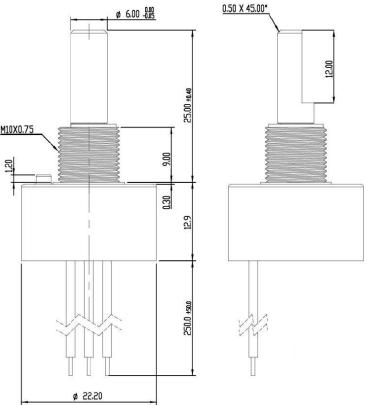


Series 285 New Product Overview

- Compact 22mm size
- Non-contacting Hall Effect technology
- Extended rotational life: 10M cycles
- Precise Linearity: ±0.5% (optional ±0.25%)
- Hysteresis: 0.2%
- Wide operating temperature range:
 -40°C to +125°C
- Seal: IP50 (optional IP54 & IP67)





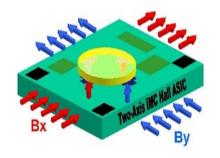


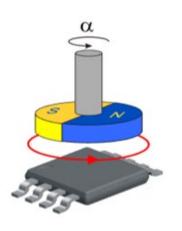




Hall Effect Technology

- Discovered by Edwin Hall in 1879
- Magnet rotates in close proximity to the Hall element
- The rotation of the magnet causes a potential difference in the Hall element
- The potential difference (voltage) is produced through which electric current flows
- There are no mechanical contacting parts
- Output is consistent throughout the life of the product

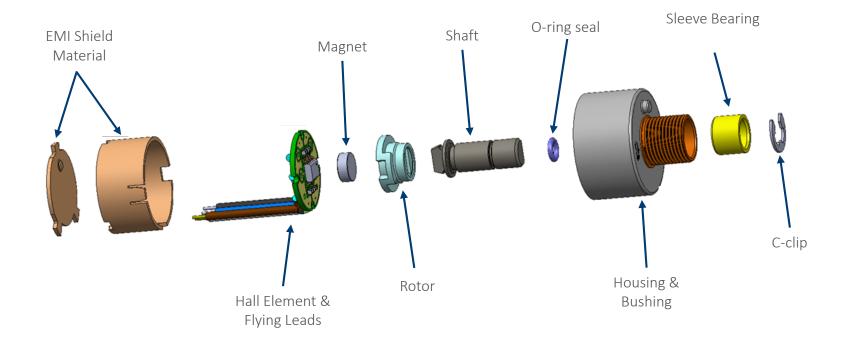






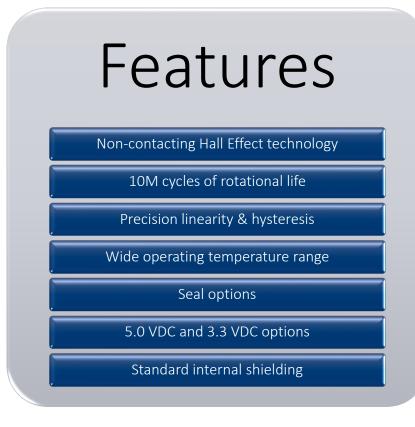


Series 285 Product Exploded View













Series 285 Product Capabilities

Custom and Value-Added Capabilities

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





Series 285 Product Value Proposition





The Series 285 Rotary Position Sensor provides a flexible, programmable, non-contacting design with standard internal electromagnetic interference (EMI) shielding offered at a competitive price.

- The flexible design allows for the basic assembly to be repackaged for various mounting styles and configurations
- The product design allows for different outputs and communication protocols to fit the customer's design
- Standard EMI shielding allows the product to be used in areas where magnetic fields are present
- CTS has over 20 years of experience in designing Hall-Effect non-contacting products for automotive applications and is now bringing this technology to industrial grade rotary sensors





Series 285 Product Target Market Segments/Applications







- •Wheel balancing equipment
- Flow valves
- Pneumatic control valves
- •Draw wire position sensors
- Riding mower
- •Portable generators













- Diagnostic equipment
- •Emergency & patient monitor
- Medication management
- Patient platform
- •Dental chair
- Mobility equipment



- Cycle/Scooters
- Agriculture equipment
- •Construction equipment
- $\bullet \mathsf{Material}\ \mathsf{handling}$
- •Light rail
- Marine















Series 285 Product Collateral



Updated Product Brochure

https://www.ctscorp.com/wp-content/uploads/Controls-Brochure2017.05.pdf

New website landing page

https://www.ctscorp.com/sense product line/rotary-position-sensors/





Series 285 Product Availability









Global Distributors



Regional Distributors



- Inventory is readily available at e-Catalog distributors worldwide
- A comprehensive network of established global supply chain distributors are ready to assist
- World-class local language customer support is available to help with designs and production





Thank you

