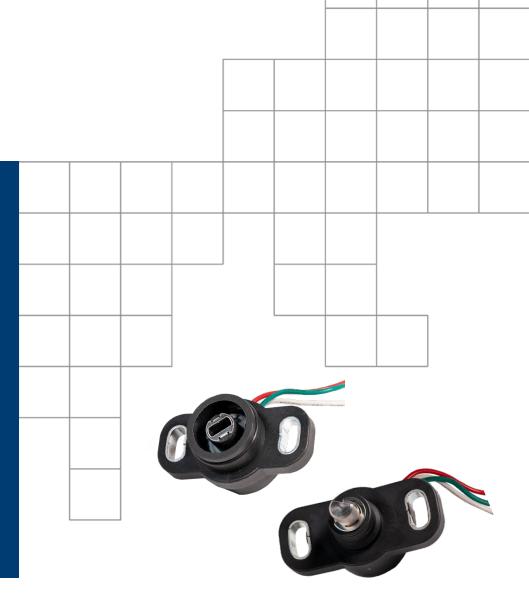




Series 285 Flange Mount Rotary Position Sensor

September 2019





Agenda

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

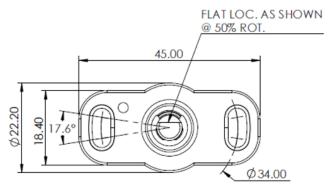


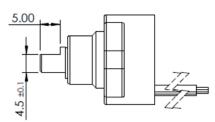


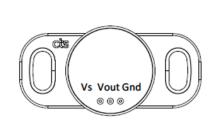


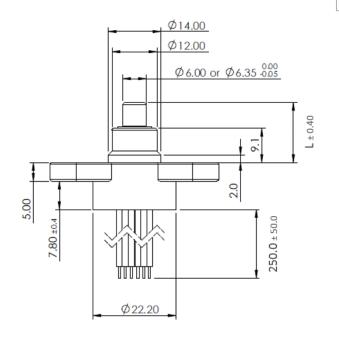
Series 285 Flange Mount Rotary Sensor Overview

- Compact 45mm x 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)







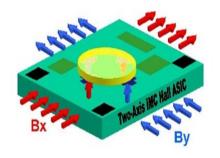


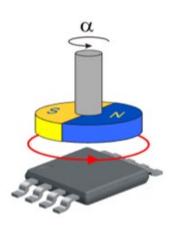




Hall Effect Technology

- 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

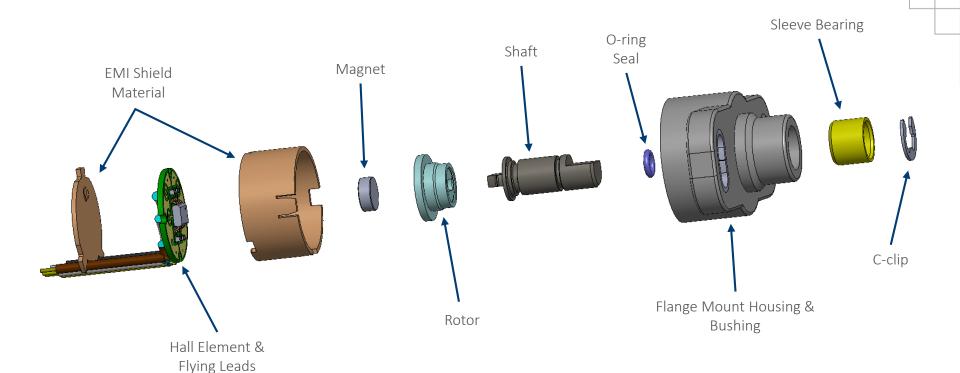








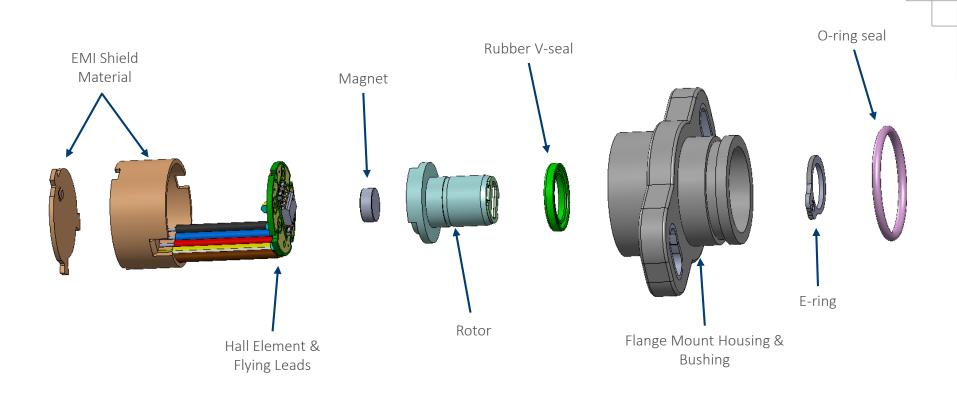
Series 285 Flange Mount Product Exploded View





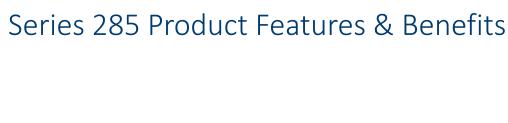


Series 285 Product Flange Mount Shaftless Exploded View









Features

Non-contacting Hall Effect technology

10M cycles of rotational life

Precision linearity & hysteresis

Wide operating temperature range

Seal options

5.0 VDC and 3.3 VDC options

Standard internal shielding

Benefits

Elimination of wearing electrical contacting parts

Extended field deployment

Allows for precise position sensing

Suitable for use in cold or hot environments

Suitable for use in dusty or wet environments

Power supply flexibility

Protection against EMI





Series 285 Flange Mount Product Capabilities

Custom and Value-Added Capabilities

- Electrical & mechanical angle customization
- Output communication protocol (i.e. PWM, SSI, SPI, CANbus, etc.)
- Cable/connector customization
- Custom packaging





Series 285 Flange Mount Product Value Proposition





The Series 285 Rotary Position Sensor provides a flexible, programmable, Hall-effect 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 to fit the application
- 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
- The dual output option is available for applications that require dual function or redundant output for enhanced safety.





Series 285 Flange Mount Product Target Market Segments





- Valve controllers and actuators
- •Pneumatic control valves
- •Food & beverage processing
- •Automated assembly & packaging
- Robotics







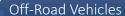






Transportation and Marine

- •Scooter/cycles
- •Train seat positioning
- Door opening sensors
- Boat throttle controls
- Ship propulsion



- •Throttle position sensors
- •Throttle for EFI
- •Riding lawn mowers
- Mining machinery
- •Agriculture equipment

















Series 285 Flange Mount Product Collateral



Updated website landing page

https://www.ctscorp.com/sense_product_line/rotary-position-sensors/

Updated Product Brochure

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





Series 285 Flange Mount 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





