

# TECHNICAL INSIGHT

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## Transmission Torque Sensor Unit

### Development Objectives

Direct torque measurement for better T/M efficiency & shift quality

### General Description and Product Features (Structure and Operating Principles)

#### Features

- › Direct torque measurement
- › High accuracy of torque sensing

#### Structure and Operating Principles

Hall sensors integrated  
in bearing

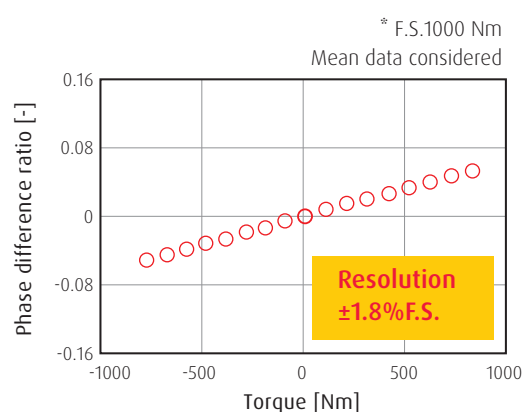
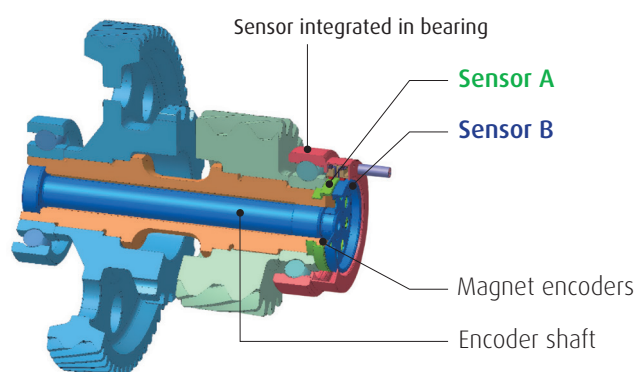


Easy mounting of sensor unit

- › Space saving
- › One harness

High accuracy

- › Gap between sensors and encoders is managed



#### Principle of measurement

Torque angle between Sensor A and Sensor B is measured by phase difference  $\theta$

