

Magnetostrictive Torque Sensor

NSK

Magnetostrictive Torque Sensors Capable of Detecting Shaft Torque without Contact

New Products

Early Prototype



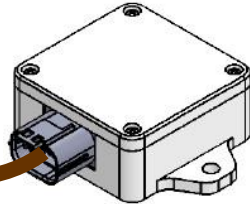
Development ①

Shot peening
Processed carburized
steel shaft
Carburized steel
shaft



Development ②

Processing Unit with
temperature compensation
function



Development ③

Torque detection
using a coil on a
flexible printed
circuit board



Features

- ✓ Contactless shaft torque detection
- ✓ Thin, narrow width and compact sensor
- ✓ Realizing condition monitoring and feedback control

Why NSK ?



Using materials and surface treatment technologies cultivated through bearing development, we have optimized output characteristics and achieved shaft torque detection.

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【Under joint development with PROTERIAL, Ltd.】

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Change & Go Beyond