



# 感应式位置传感器

Inductive Position Sensor

## 高精度测量转向角或齿条轴位移

High-precision measurement of steering angle  
or rack shaft displacement

### 概要

#### ✓ 高精度检测

High accuracy

#### ✓ 高抗磁场干扰性

High immunity to Stray Magnetic Fields

#### ✓ 支持冗余设计

Supporting redundancy

### 产品应用

#### 转向/减震器

##### 转向角检测 / 齿条轴位移检测

(用于线控转向系统及四轮转向系统)

##### 减震器位移检测

(用于电子控制悬架系统)

Steering angle detection / Rack shaft displacement detection  
(for steer-by-wire and four-wheel steering systems)

Damper displacement detection  
(for electronically controlled suspension)

## ■ 角度传感器 Angle Sensor

- 采用感应式原理，具有高磁场抗扰性

High magnetic field immunity due to inductive method

- 通过一对齿轮结构实现绝对角度检测  
(减少零件数量)

Detection of absolute angle in a pair of gears structures  
(Reduction of the number of parts)



外观  
Appearance

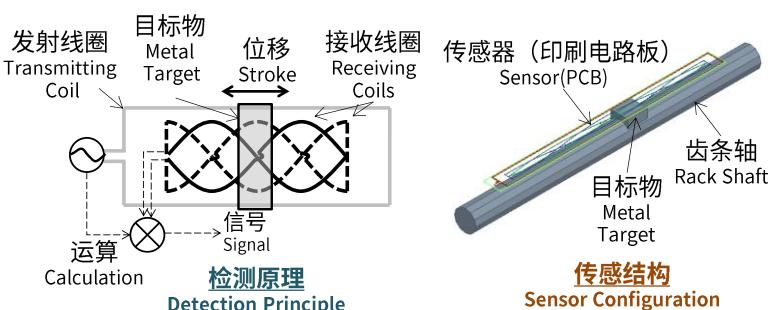
传感结构  
Sensor Configuration

## ■ 位移传感器 Stroke Sensor

- 采用无需旋转机构的直接检测方式，  
从而实现节省空间和减少零件数量

Direct detection method without using a rotation mechanism,  
achieving space-saving and fewer components.

- 凭借独特的线圈形状，对齿条轴的倾斜具有高稳定性  
High robustness against rack shaft inclination due to unique coil shape.



传感结构  
Sensor Configuration

项目 Item	规格(暂定) Specification (provisional)
旋转范围 Range	5圈 (可选) 5 rotations (Optional.)
精度 Accuracy	±2°
尺寸 Size	TBD
电源电压 Supply Voltage	5VDC
输出类型 Output type	2角度 (通过运算实现绝对角度检测) 2 Angles (absolute angle detection by calculation)
通信协议 Protocol	SENT/SPC
ASIL <sup>(*)</sup>	B, B+B,D

项目 Item	规格(暂定) Specification (provisional)
位移量 Range	±100mm
精度 Accuracy	±0.2mm (±0.1%FS)
尺寸 Size	TBD
电源电压 Supply Voltage	5VDC
输出类型 Output type	绝对位移 (Absolute) Absolute
通信协议 Protocol	SENT
ASIL <sup>(*)</sup>	B,B+B

(\*) ASIL: Automotive Safety Integrity Level (汽车安全水准)