

TOCOS®

NON-CONTACT ANGLE SENSOR

- Long LifeQuiet Operation
- ► Durable
- Economical

The RSC24 Non-Contact Angle Sensor is a low cost, high performance inductance method sensor. The non-contact, no-friction design results in long life and quiet operation. The one-piece housing provides durability plus protection against dust and humidity.

RSC24 Features:

- Non-contact design provides long rotational life and quiet operation
- Shaft rotation angle up to 160°
- High linearity, minimal hysteresis
- Operating temperature: -25 to +85°C
- Fully RoHS compliant

A magnetic field is generated when AC is applied to the coil. Rotation rotor (c magnetivalues Impeda by the s proport rotation angle d

Rotation of the non-contacting rotor (conductor) over the magnetized coil causes impedance values to change in the coil. Impedance changes are converted by the sensor's IC to a signal proportional to the angle of rotation and output as rotational angle data.

IC Board

One-piece, durable housing protects internal elements from invasion of dust and humidity.

Applications:

- Angle sensor for automotive applications.
- Joystick controls for gaming industry.
- Electronic musical instruments.
- Position sensor for robotics, building construction equipment and HVAC.
- Valve position sensor.
- Any application where angle detection is needed and which requires a long life, highly durable sensor.

3 pin connector and cable





Diagram of Dimensions



Rotation Angle vs. Output Voltage Characteristics

