

AN8 Series



Programmable, non-contact magnetic position sensors capable of continuous rotation

Features and Benefits

- Angular position with high tolerance for misalignment
- Provides non-contact angular position sensing and full 360° rotation
- 5VDC ratiometric device.
- Linear output over specific angular rotation ranges available on request
- Sealed design exceeds IEC 60529 IP67 standard for immersion
- Performs with AS500106 standard magnetic carrier
- Sensor can be programmed for use with custom magnets
- Custom programming option for rising or falling output slope with selectable offset, gain, clamp voltage
- PWM output option available for custom applications
- Provided with EMI/ESD protection to SAE J1113 standards
- No mechanical interface means no parts to wear out

Description

The sensor is applied by rotating a magnetic actuator close to the face of the sensor. Output voltage varies with angular position of the magnet relative to the sensor.

Optimal performance is achieved with Cherry's AS500106 magnetic actuator. Sensor kits including this standard magnet are available

Applications

- Throttle position sensor
- Replacement for smart bearings
- PRNDL switch for harsh environments
- Steer wheel position for drive by wire systems
- Pedal position sensor

Mechanical Specifications

Mechanical Travel	0 to 360 degrees (no stops)
Dither	No mechanical contact
Mating Connector	Connector: Delphi Metri-pak 150.2 12162185 Terminal:12124075
Maximum Air Gap	5 mm
Maximum Center-to-Center Offset	2 mm diameter (magnet to sensor)

Dimensions mm

