

# ANGLE POSITION SENSORS

Angle position sensors based on Hall technology respond to magnetic fields generated by a (rare-earth) magnet. They provide a linear change in voltage output corresponding to the rotation of the axis.

## Features

- High tolerance for misalignment
- Available with different connector and connecting cable versions
- IP67
- RoHS compliant

## Typical applications

- Hydraulic valve
- Hydraulic controls
- Electric drives
- Pneumatic controls
- Zero-contact encoder alternative
- Gear selection / shifting position
- Lifting and driving height position
- Throttle valve and pedal switch
- Steering wheel position

## AN1

**Angle position sensor with integrated magnets and return spring**

- Patented intrinsically linear angle position sensor (LLAPS)
- Magnet/sensor orientation provides linear output from 5° to 85° of rotation without the need for electrical compensation
- Return spring provides resistance to CCW motion
- Fully encapsulated assembly

## AN8

**Programmable angle position sensor for 360° applications**

- Non-contact angular position sensing for 360° rotation
- Custom programming available for: angle range, offset, PMW output, custom magnets – contact factory
- Separation of sensor and magnet means no mechanical wear
- Available with Delphi connector or 305 mm wire leads



## AN9

**Programmable angle position sensor for 360° rotation**

- Non-contact angular position sensing for 360° rotation
- Two separate output signals for extreme reliability
- Custom programming available for: angle range, offset, PMW output, custom magnets – contact factory
- Separation of sensor and magnet means no mechanical wear
- With 305 mm wire leads

## ANG

**Programmable angle position sensor for 360° rotation**

- Custom programming available for: angle range, slope, PMW output, custom magnets – contact factory
- No mechanical interface means no parts to wear out or jam
- Available with 20 AWG 305 mm (12") discrete wire leads
- IP68
- Maximum airgap of 6 mm (0.24")
- EMC/EMI/ESD compliant in accordance with industrial/automotive guidelines



## Technical data

Series	AN1	AN8
Dimensions L/W/H mm (inches)	47.10 x 51.10 x 23.50 (1.850 x 2.010 x 0.930)	48.30 x 57.33 x 17.70 (1.900 x 2.260 x 0.700)
Rotational sensing range	5 to 85°	0 to 360°
Supply voltage (V DC)	5.0 ±10%	5.0 ±10%
Resolution	analog	analog
Operating temperature range (°C)	-40 to +125°C	min. -40 to +125°C

## Technical data

Series	AN9	ANG
Dimensions L/W/H mm (inches)	48.30 x 40.00 x 8.50 (1.900 x 1.570 x 0.335)	32.50 x 42.95 x 6.50 (1.280 x 0.250 x 0.425)
Rotational sensing range	0 to 360°	0 to 360°
Supply voltage (V DC)	5.0 ±10%	5.0 ±10%
Resolution	analog	12 bit
Operating temperature range (°C)	-40 to +125°C	-40 to +140°C