



KH SERIES KH41 & 42 SHAFTLESS ROTARY POSITION SENSOR

The KH41/42 Series of Non Contact 2-channel rotary position sensors are designed to withstand the harsh environments of motorsport and on-vehicle automotive testing applications.

By using a proven 'Hall Effect' technology, the KH41/42 offers high performance and reliability at temperatures up to +300°F. Alternatively, it is capable of operational excellence in cold environments down to -40°F.

The sensor has no moving parts, a magnet is inserted into the moving component. The sensor detects movement and provides a linear output signal proportional to the rotational angle.

With a small and lightweight 0.91" diameter body and standard size flange mounting, the KH41/42 Sensor is designed for use on throttle bodies, other installations include: gearbox and pedal position.

The sensor is available in either Single (3 wire) or Dual (6 wire) outputs.

Sensors For Motorsport

Features

- Shaftless Design
- ±0.1% Linearity
- -40° to 300°F
- Lightweight - 0.7oz
- IP67 Sealing

TECHNICAL SPECIFICATIONS

Electrical Angles (Degrees)	60° to 360° in 1° Increments. Standard Angles: 60°, 100°, 240°, 360°
Power Supply	5Vdc or 6-30Vdc (Max 32mA) Reverse Polarity Protected
Output	Please See Part Number Configurator - page 2 For Options
Resolution	12 Bit
Accuracy, Linearity	±0.1%
Accuracy, Hysteresis	<0.1°
Update Rate	5KHz
Mechanical Life	> 25 Million Cycles at Max 150RPM
Operating Temperature Range	-40°F to +300°F (-40°C to +150°C)
Housing Material	Aluminum
Air Gap/Concentricity	0.04" - 0.12" Air Gap/0.04" - 0.08" Concentricity
Track Technology	Hall Effect, Non Contact
Electrical Connection	20" 26AWG, 3/6 Wire, 55spec, FDR 25 Sleeve
Protection Class	IP67
Weight	0.7oz
Options	Cable Length, Magnet Type and Labelling

Applications

- Throttle Position
- Steering Angle
- Pedal Position
- Gear Position
- Aero Surfaces
- Actuators

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PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice

