

The KH41/42 Series of Non-Contact 1 or 2 Channel Rotary Position Sensors are designed to withstand the harsh environments of motorsport and automotive testing applications. By using a proven 'Hall Effect' technology, the KH41/42 offers high performance, reliability and operational excellence in extreme temperature environments between –40°C to +150°C.

The sensor has no moving parts; a magnet is inserted into the moving component with its Polarity Identifier in line with the cable exit. The sensor detects rotational movement and provides a linear output signal proportional to the rotational angle. This output can be measured on both Top and Bottom sides of the sensor body.

With a small and lightweight 23mm diameter body and standard size Flange Mountings, the KH41/42 Sensor is designed for use on throttle bodies, other installations include: gearbox and pedal position. This IP67 rated sensor is available with either Single (3 wire) or Dual (6 wire) outputs.

TECHNICAL SPECIFICATIONS

Electrical Angles (Degrees)	60° to 360° in 1° Increments. Standard Angles: 60°, 100°, 240°, 360°	
Supply	5V DC Regulated	
Output	Please See Part Number Configurator 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°C to +150°C	
Housing Material	Aluminium	
Air Gap / Concentricity	1-3mm Air Gap / 1-2mm Concentricity	
Track Technology	Hall Effect, Non Contact	
Electrical Connection	50cm 26AWG, 55 Spec, FDR 25 Sleeve	
Protection Class	IP67	
Weight	20g	

 $KA \ Sensors \ adopts \ a \ continuous \ development \ program \ which \ sometimes \ necessitates \ specification \ changes \ without \ notice.$

Sensors For Motorsport

Features

- Shaftless Design
- Excellent Linearity
- High Temperature
- Lightweight
- IP67 Standard Sealing
- Rugged Construction

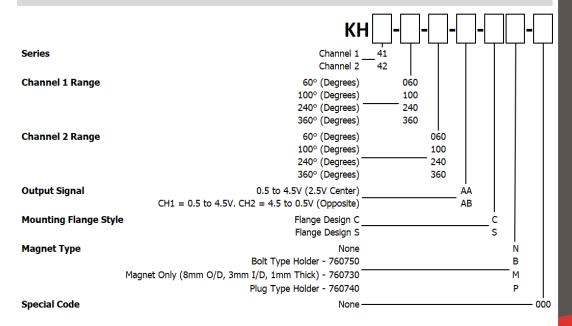
Applications

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

kasensors.com sales@kasensors.com

KH41/42 10.22

PART NUMBER CONFIGURATOR

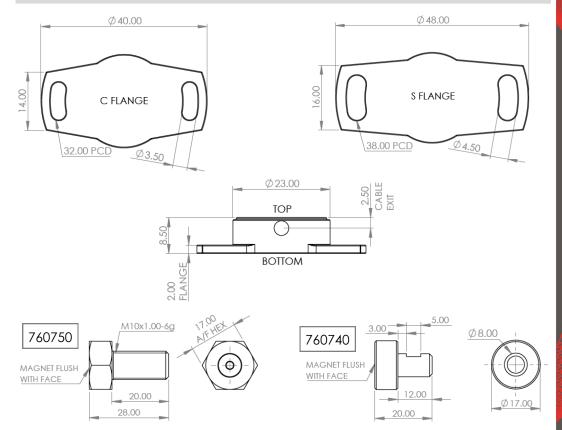


Sense Analyse Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

MECHANICAL DETAILS



Contact us

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CONNECTION DETAILS

	+Ve Supply	0V Supply	Signal
Single Output	Red	Black	Yellow
Dual Output	Brown	Blue	White

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KH41/42 10.22