

KH SERIES KH21 & KH22 Non-Contact Rotary Position Sensor



The KH21/22 Series of Non-Contact Rotary Position Sensors are designed to withstand the harsh environments of motorsport and automotive testing applications.

By using a proven 'Hall Effect' technology, the KH21/22 offers high performance and reliability at temperatures up to +150°C. Alternatively, they are capable of operational excellence in cold environments down to -25°C.

With a small and lightweight 22.5mm diameter body, the KH21/22 Sensor is ideal for many applications within both motorsport and automotive testing and development programs. Typical applications include: throttle, gearbox and pedal position.

Available in either Single (3 wire) or Dual (6 wire) outputs, the modular design allows for various mounting arrangements with different Shaft/Drive types.

TECHNICAL SPECIFICATIONS

Electrical Angles (Degrees)	30°, 60°, 120°, 240°, 360°, Custom Angles Available		
Supply	5V or 6-30V (Max 32mA) Reverse Polarity Protected		
Output	Please See Part Number Configurator For Options		
Output Centre Position (Voltage)	2.5V When Shaft Ident Is In Line With The Cable Exit		
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	-25°C to +150°C		
Housing Material	Aluminium		
Shaft Material	Stainless Steel		
Track Technology	Hall Effect		
Electrical Connection	50cm 26AWG, 3/6 Wire, 55spec, FDR 25 Sleeve		
Protection Class	IP65 or IP67		
Weight	20g		
Options	Cable Length, Labelling, Mounting Flange & Shaft Drive		

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

Sensors For Motorsport

Features

- Compact Design
- Excellent Linearity
- High Temperature
- Lightweight
 - IP65 or IP67 Sealing
- Rugged Construction

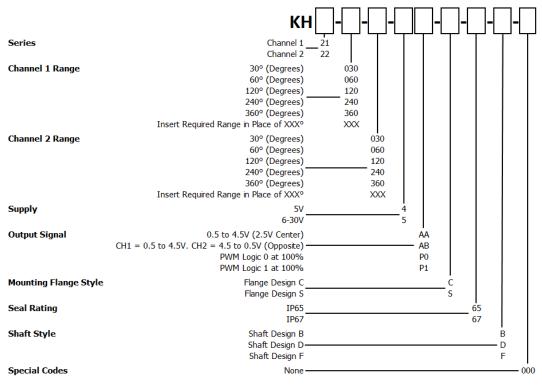
Applications

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

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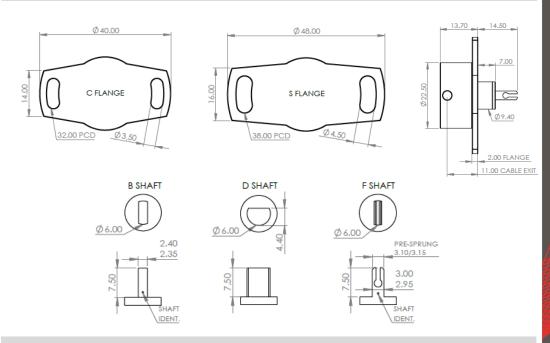
KH21/22 10.18

PART NUMBER CONFIGURATOR



The KA configuration tool is used to specify a standard KA Sensor, other options are available.

MECHANICAL **D**ETAILS



CONNECTION DETAILS

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

Sense Analyse Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

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KH21/22 10.18