

**Sense
Measure
Control**

KH21 & KH22 SERIES NON-CONTACT ROTARY POSITION SENSOR

The KH21 and KH22 series of non-contact rotary position sensors are designed to withstand the harsh environments of motorsport applications and on-vehicle automotive applications.

Using proven 'Hall Effect' technology, the sensors offer high performance and reliability at temperatures up to +300°F. Alternatively, it is capable of operational excellence in cold environments down to -15°F.

With a small and lightweight 0.89" diameter body these are ideal for many applications within both motorsport and automotive testing and development programs. Typical installations 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 for the sensor and also importantly the different shaft/drive types.

Features

- *Compact Design*
- *0.05% Linearity*
- *300 °F Operation*
- *Lightweight - 0.7oz*
- *IP65 or IP67 Sealing*

Applications

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

TECHNICAL SPECIFICATIONS

Electrical Angles	30°, 60° 120°, 240° 360° also custom
Output Channels	1 or 2 (Fully redundant)
Output	Analog 0.5 to 4.5V or PWM
Supply	5V or 6-30V (max 32mA)
Electrical Protection	Reverse and short circuit
Resolution	0.02% FS
Linearity	±0.05% FS
Hysteresis	<0.05% FS
Operating Temperature Range	-15°F to 300°F (-25°C to +150°C)
Protection Class	IP65 or IP67
Housing Material	Aluminum
Shaft Material	Stainless steel
Sensing Technology	Hall effect
Electrical Connection	20 ins 3/6 wire Raychem 55A, 26 AWG, FDR 25 sleeve
Weight	0.7oz
Options	Output, Flange, Shaft drive, Cable length & labelling

Contact us

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Represented by:



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

Sensors and solutions for Motorsport and On-Vehicle applications

KAfigurator

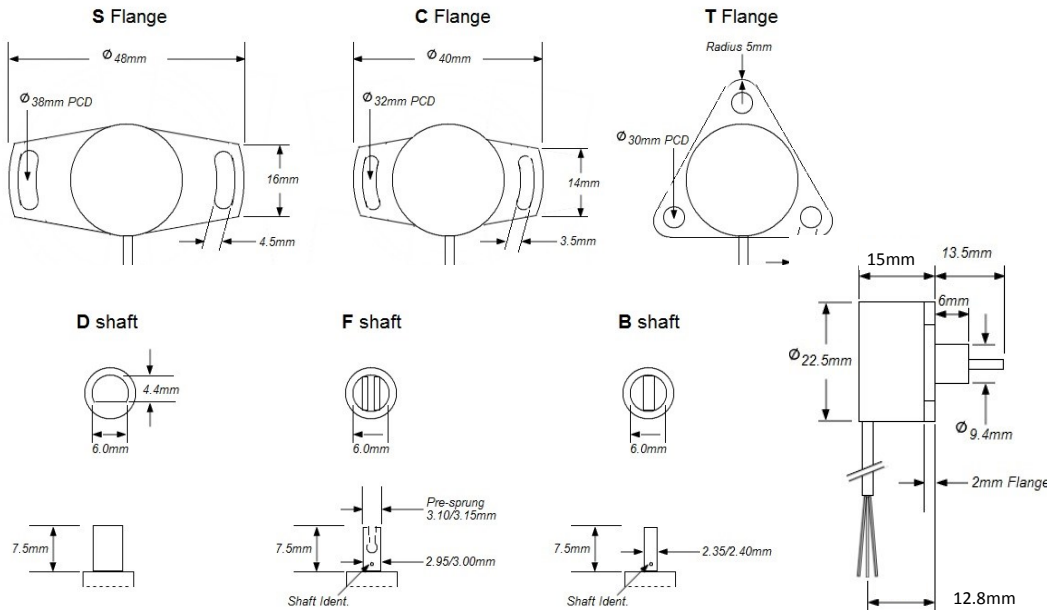
KH21 030 4 AA C 65 B 000

Series	1 Channel	KH21					
	2 Channel	KH22					
Electrical Range	30° (Degrees)	030					
	60° (Degrees)	060					
	120° (Degrees)	120					
	240° (Degrees)	240					
	360° (Degrees)	360					
	Insert required range in place of xxx° (Degrees)	xxx					
Supply	5V	4					
	6-30V	5					
Output Signal	0.5 to 4.5V	AA					
	CH1 = 0.5 to 4.5V CH2 = 4.5 to 0.5V (Opposite)	AB					
	PMW logic 1 at 100%	P1					
	PMW logic 0 at 100%	P0					
Mounting Flange Style	Flange Design C	C					
	Flange Design S	S					
	Flange Design T	T					
Seal Rating	IP65	65					
	IP67	67					
Shaft	Shaft Design B	B					
	Shaft Design D	D					
	Shaft Design F	F					
Special Code	None	000					

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

MECHANICAL DETAILS

Dimensions in mm



ELECTRICAL DETAILS

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

Sense Measure Control

Sensors for

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services for

- Data Logging
- Telemetry
- Controls
- Wiring
- Design

KA Sensors are

- Engineering led
- Confidential
- Experienced
- Responsive
- Dynamic
- Friendly

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