

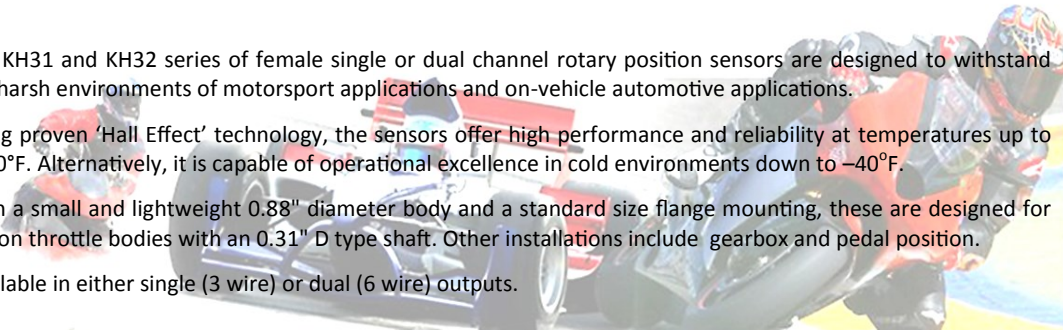
KH31 & KH32 SERIES FEMALE ROTARY POSITION SENSOR

The KH31 and KH32 series of female single or dual channel 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 -40°F.

With a small and lightweight 0.88" diameter body and a standard size flange mounting, these are designed for use on throttle bodies with an 0.31" D type shaft. Other installations include gearbox and pedal position.

Available in either single (3 wire) or dual (6 wire) outputs.



*Sense
Measure
Control*

Features

- 1 or 2 Channels
- 0.1% Linearity
- -40 to 300°F
- Lightweight - 0.7oz
- IP65 or IP67 Sealing

Applications

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

TECHNICAL SPECIFICATIONS

Electrical Angles	20° to 360° in 1° increments. Standard: 30°, 60°, 120°, 240°, 360°
Power Supply	5V or 6-30V (max 32mA) reverse polarity protected
Output	0.5 to 4.5V (see kfigurator on 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, PEEK
Shaft Material	Aluminum
Track Technology	Hall effect
Electrical Connection	24 ins , 3 or 6 wire Raychem 55A, 26 AWG, FDR 25 sleeve
Protection Class	IP65 or IP67
Weight	0.7oz
Options	Electrical Angle, 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

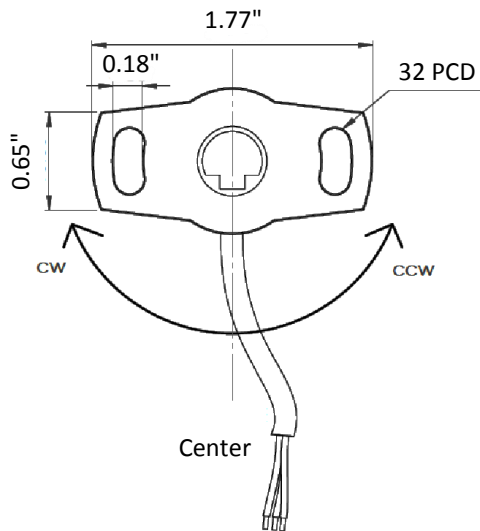
Sensors and solutions for Motorsport and On-Vehicle applications

KAfigurator		KH31	030	000	4	AA	C	65	DF8	000
Series	Female 1 Channel	KH31								
	Female 2 Channel	KH32								
Range Channel 1	30° (Degrees)	030								
	60° (Degrees)	060								
	90° (Degrees)	090								
	120° (Degrees)	120								
	240° (Degrees)	240								
	360° (Degrees)	360								
	For custom insert required range in place of xxx° (Degrees)	xxx								
Range Channel 2	None	000								
	30° (Degrees)	030								
	60° (Degrees)	060								
	90° (Degrees)	090								
	120° (Degrees)	120								
	240° (Degrees)	240								
	360° (Degrees)	360								
	For custom 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				
	Custom Range Required					XX				
Mounting Flange Style	Flange Design C						C			
Seal Rating	IP65							65		
	IP67							67		
Shaft	Female D. 8mm								DF8	
Special Code	None									000

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

MECHANICAL DETAILS

Dimensions in inches



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 is

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

Sensors and solutions for Motorsport and On-Vehicle applications