

KH SERIES KH31 & 32 FEMALE ROTARY POSITION SENSOR



Sense
Analyse
Control

The KH31/32 Series of Female 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 KH31/32 offers high performance and reliability at temperatures up to $+150^{\circ}$ C. Alternatively, it is capable of operational excellence in cold environments down to -40° C.

With a small and lightweight 22.5mm diameter body and standard size 32mm PCD Flange Mounting, the KH31/32 Sensor is designed for use on throttle bodies with an 8mm D Type Shaft; other installations include: gearbox and pedal position.

This IP67 rated sensor is available with either Single (3 wire) or Dual (6 wire) outputs.

Features

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

TECHNICAL SPECIFICATIONS

Electrical Angles (Degrees)	20° to 360° in 1° Increments. Standard Angles: 30°, 60°, 120°, 240° & 360°	
Supply	5V DC Regulated	
Output	Please See Part Number Configurator For Options	
Output Centre Position (Voltage)	2.5V When Keyway 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	-40°C to +150°C	
Housing Material	Aluminium, PEEK	
Shaft Material	Aluminium	
Track Technology	Hall Effect	
Electrical Connection	50cm 26AWG, 55 Spec, FDR 25 Sleeve	
Protection Class	IP67	
Weight	20g	

Applications

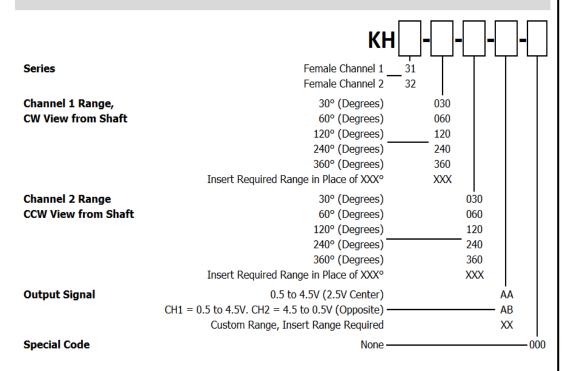
- Throttle Position
- Steering Angle
- Pedal Position
- Gear Position
- Aero Surfaces
- Actuators

bf1systems.com sales@kasensors.com

> KH31/32 KA025D-DS (rev1)

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

PART NUMBER CONFIGURATOR

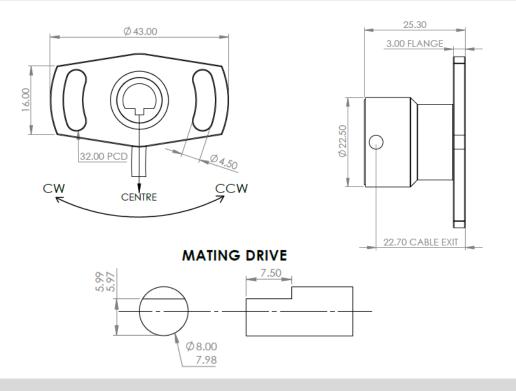


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Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

MECHANICAL DETAILS



Contact us

KA Sensors Ltd
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Springfield Business Park
Grantham
United Kingdom
NG31 7FZ

CONNECTION DETAILS

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

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