

## KH SERIES KH21 & 22 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 -40°C.

With a small and lightweight 22.5mm diameter body, the KH21/22 Sensor is ideal for many applications with typical applications including; throttle, gearbox and pedal position.

This IP67 rated sensor is available with either Single (3 wire) or Dual (6 wire) outputs. The modular design allows for various mounting arrangements with different Shaft/Drive types.

#### 20° to 360° in 1° Increments. **Electrical Angles (Degrees)** Standard Angles: 30°, 60°, 120°, 240° & 360° Supply **5V DC Regulated** Please See Part Number Configurator For Options Output **Output Centre Position (Voltage)** 2.5V When Shaft Flat / Identifier Is In Line With 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 Aluminium **Housing Material Shaft Material** Stainless Steel Track Technology Hall Effect **Electrical Connection** 50cm 26AWG, 55 Spec, FDR 25 Sleeve Protection Class IP67 15g Without Cable Weight

# **TECHNICAL SPECIFICATIONS**

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

PRESSURE | TEMPERATURE | FORCE | TORQUE | POSITION | SPEED | ACCELERATION | GYRO

Sense Analyse Control

### Features

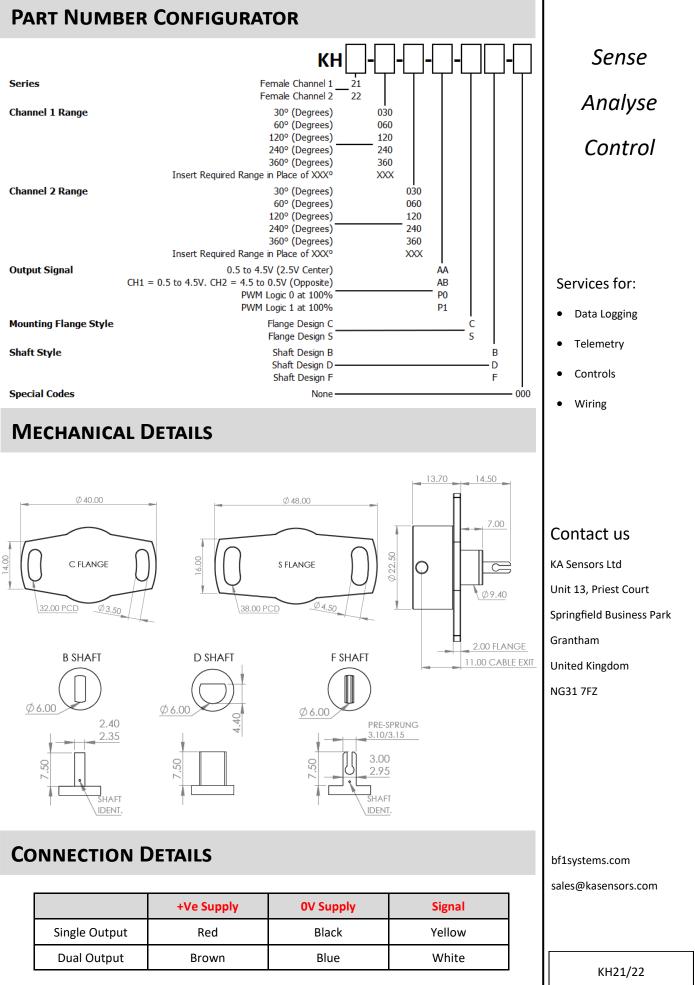
- Compact Design
- Excellent Linearity
- High Temperature
- Lightweight
- IP67 Standard Sealing
- Rugged Construction

### Applications

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

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> KH21/22 KA024D-DS (rev1)



ENGINEERING LED | CONFIDENTIAL | EXPERIENCED | RESPONSIVE | DYNAMIC | FRIENDLY

KA024D-DS (rev1)