

## KR22 SERIES ROTARY POTENTIOMETER



The KR22 Series of Rotary Potentiometers are designed to withstand the harsh environments within motorsport and automotive testing applications.

By using a proven conductive plastic, track technology and multi-fingered contacts, the KR22 offers high performance and reliability at temperatures up to +175°C. Alternatively, it is capable of operational excellence in cold environments down to -40°C.

With a small and lightweight 22.5mm diameter body, the KR22 Sensor is ideal for many applications within both motorsport and automotive testing and development programs.

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

<b>Electrical Angles (Degrees)</b>	45°, 125°, Dual 125°, 350°
<b>Nominal Resistance</b>	5 kOhm (±20%)
<b>Resolution</b>	Essentially Infinite
<b>Repeatability</b>	<=0.01%
<b>Operational Speed</b>	150 RPM
<b>Mechanical Life</b>	> 25 Million Cycles
<b>Independent Linearity</b>	<= ± 0.5%
<b>Supply</b>	5V typical (40Vdc Maximum)
<b>Operating Temperature Range</b>	-40°C to +175°C
<b>Housing Material</b>	Aluminium
<b>Shaft Material</b>	Stainless Steel
<b>Track Technology</b>	Conductive Track
<b>Electrical Connection</b>	50cm 26AWG, 3/6 Wire, 55spec, FDR 25 Sleeve
<b>Protection Class</b>	IP65 or IP67
<b>Weight</b>	20g
<b>Options</b>	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

kasensors.com

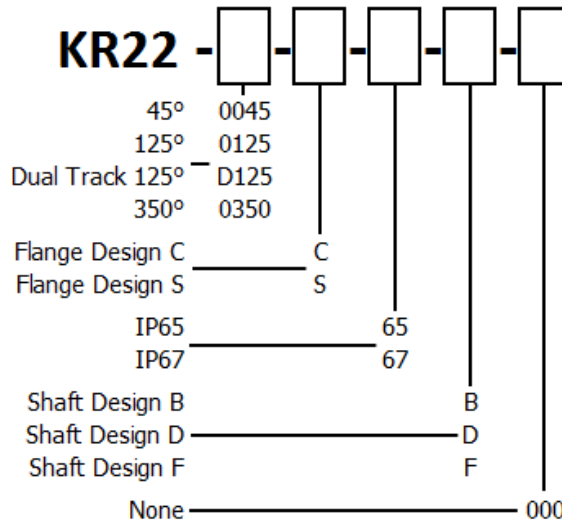
sales@kasensors.com

+44(0)1476 568057

KR22 10.18

# PART NUMBER CONFIGURATOR

## Electrical Range (Degrees)



## Mounting Flange Style

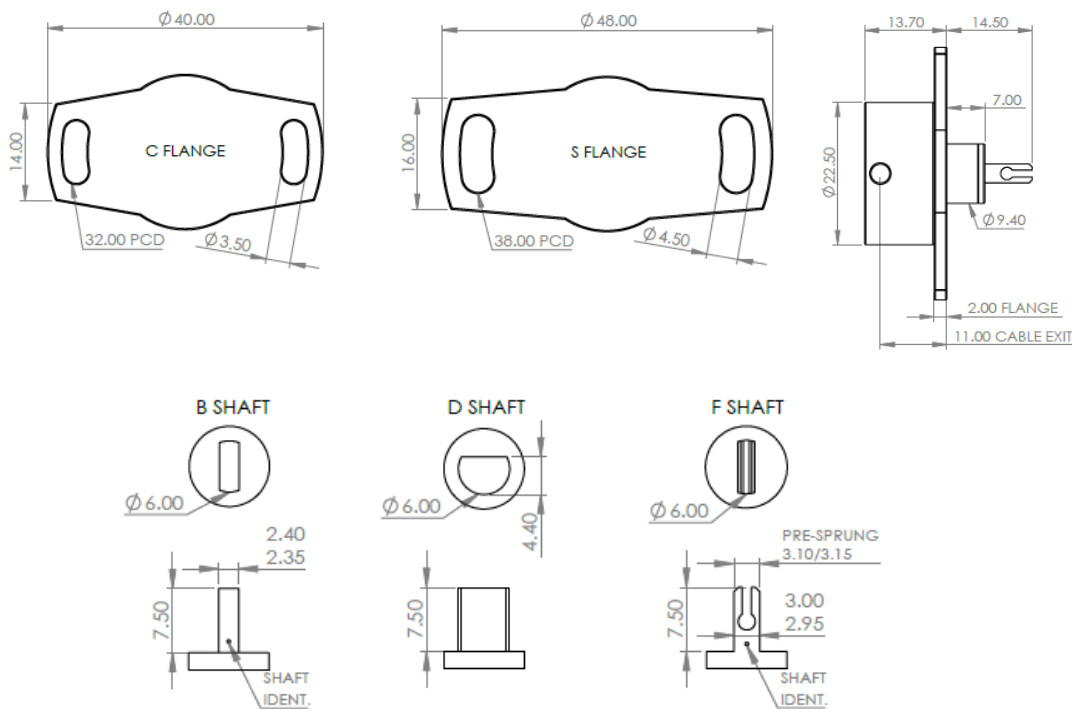
## Seal Rating

## Shaft

## Special Code

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

# MECHANICAL DETAILS



# 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

KA Sensors Ltd  
Unit 14 & 15  
The Old Malthouse  
Springfield Road  
Grantham  
Lincolnshire  
United Kingdom  
NG31 7BG

kasensors.com  
sales@kasensors.com  
+44(0)1476 568057

KR22 10.18