KR22 Series
Rotary Potentiometer

Sensors For Motorsport

The KR22 Series of rotary potentiometers are designed to withstand the harsh environments within motorsport and on-vehicle 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 +350°F. Alternatively, it is capable of operational excellence in cold environments down to –40°F.

With a small and lightweight 0.89" 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 for the sensor and also importantly the different Shaft/Drive types.

Features

- Single or Dual Track
- Excellent Linearity
- 350°F Operation
- Lightweight - 0.7oz
- IP65 or IP67 Sealing

Technical Specifications

Electrical Angles (Degrees)	45°, 125°, Dual 125°, 350°
Nominal Resistance	5 kΩ(±20%)
Resolution	Essentially Infinite
Repeatability	≤0.01%
Operational Speed	150 RPM
Mechanical Life	> 25 Million Cycles
Independent Linearity	≤± 0.5%
Power Supply	5V typical (40Vdc Maximum)
Operating Temperature Range	-40°F to 350°F (-40°C to +175°C)
Housing Material	Aluminum
Shaft Material	Stainless Steel
Track Technology	Conductive Track
Electrical Connection	20" 26AWG, 3/6 Wire, 55spec, FDR 25 Sleeve
Protection Class	IP65 or IP67
Weight	0.7oz
Options	Cable Length, Labelling, Mounting Flange & Shaft Drive

Applications

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

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Represented by:

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

Part Number Configurator

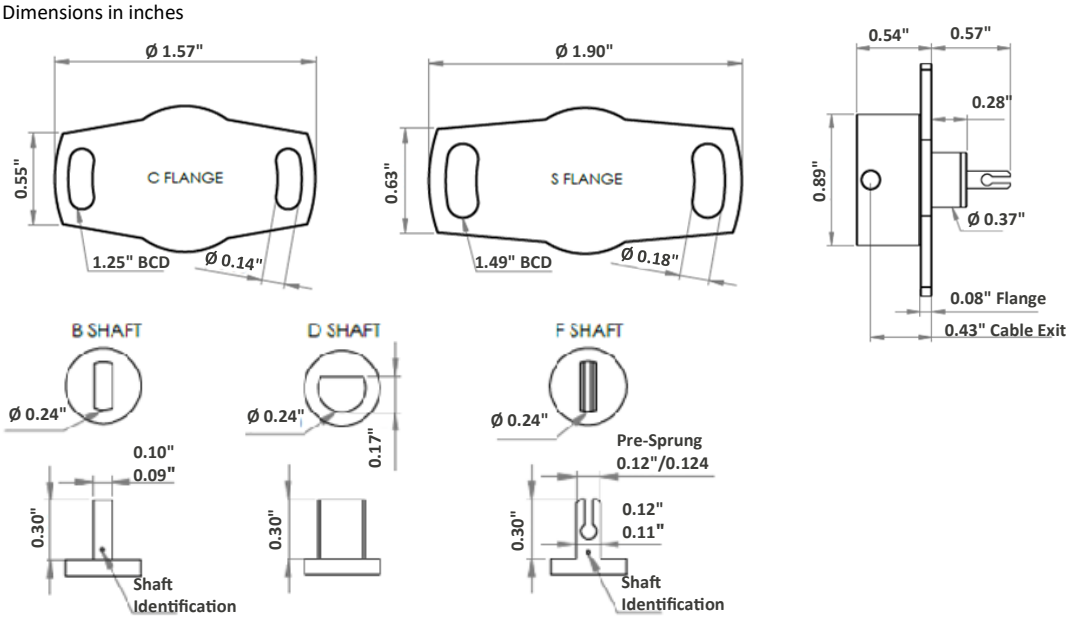
KR22 - [ ] - [ ] - [ ] - [ ] - [ ]

Electrical Range (Degrees)	45°	0045
	125°	0125
	Dual Track 125°	D125
	350°	0350
Mounting Flange Style	Flange Design C	C
	Flange Design S	S
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 inches



Electrical Details

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

Output signal may be reversed by swapping connections to the Red and Black wires.
DO NOT connect +Ve Supply to the Yellow or White wire as this will cause damage to the sensor element.

Sense
Analyze
Control

Sensors For:

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

Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact Us

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