

KP SERIES KP13S STANDARD LIGHT DUTY LINEAR POSITION SENSOR



The KP Series of KP13S Standard Light Duty Linear Positon Sensors 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 KP13S offers high performance and reliability under extreme temperature and vibration.

With standard measurement ranges from 25mm to 200mm, the Stainless Steel Shaft is fitted with sealing to IP65 (our standard option), however we also offer an IP67 option which helps protect against the harshest conditions.

Cable exit can be manufactured to have to be either Forward or Reverse exit. Also, a Carbon Sleeve option is also available to protect the shaft against debris and other damage.

For critical applications where redundancy is required, we can also offer a Dual Output Sensor within the same package size.

TECHNICAL SPECIFICATIONS

Banana (Zana mana tan)	25 50 75 400 425 450 475 200	
Ranges (Zero mm to:)	25, 50, 75, 100, 125, 150, 175, 200	
Resolution	Essentially Infinite	
Repeatability	≤0.01mm	
Operational Speed	10m/s Maximum	
Mechanical Life	>25 Million Cycles	
Supply	5V typical (40Vdc Maximum)	
Wiper Current	<10µА	
Linearity	≤0.5%	
Electrical Connection	50cm 26AWG, 55Spec + TPV Sleeve	
Track Technology	Conductive Plastic	
Operating Temperature Range	-40°C to +150°C	
Construction	Aluminium Housing and Stainless Steel Shaft	
Protection Class	IP65 or IP67	
Options	Please see our separate KP Series Accessories Datasheet	

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

Sensors For Motorsport

Features

- 13mm Ø Body
- IP67 Sealed
- Bearing Mounting
- 25mm to 200mm
- ±0.5% Linearity
- Long Life

Applications

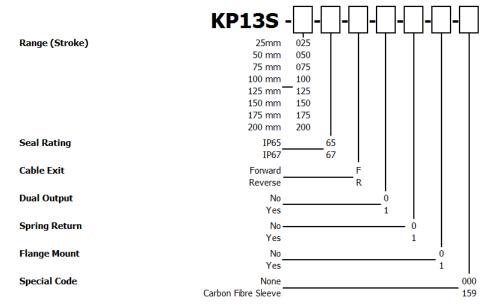
- Damper Position
- Throttle Pedal
- Aero Surface
- / Actuators

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KP13S 10.18

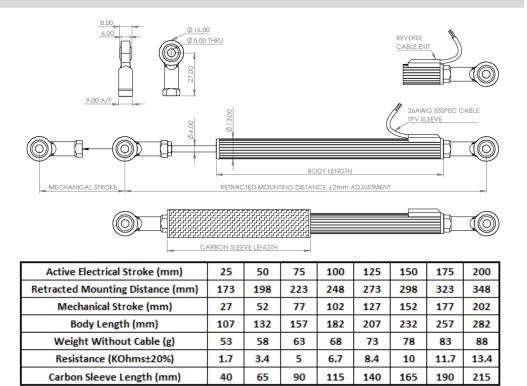
PRESSURE | TEMPERATURE | FORCE | TORQUE | POSITION | SPEED | ACCELERATION | GYRO

PART NUMBER CONFIGURATOR



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

MECHANICAL **D**ETAILS



CONNECTION DETAILS

	+Ve Supply	OV 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 wire as this will cause damage to the sensor element.

Sense Analyse Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

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