

The KP94 Series of KP94P Miniature 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 KP94P offers high performance and reliability under extreme temperature and vibration.

With standard measurement ranges offered from 12.5 to 175mm, 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. A Carbon Sleeve option is also available to protect the shaft against debris and other damage.

Industry Standard mounting of Quick-Release Pop Joints, with a cable exit option of either Forwards or Backwards, allow for easy integration into existing or new applications.

TECHNICAL SPECIFICATIONS

Ranges (Zero mm to:)	12.5, 25, 50, 75, 100, 125, 150, 175
Resolution	Essentially Infinite
Repeatability	≤0.01mm
Operational Speed	10m/s Maximum
Mechanical Life	>25 Million Cycles
Supply	5V typical (40Vdc Maximum)
Wiper Current	<10µA
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

- 9.4mm Ø Body
- IP67 Sealed
- Pop Joint Mounting
- 12.5mm to 175mm
- ±0.5% Linearity
- Long Life

Applications

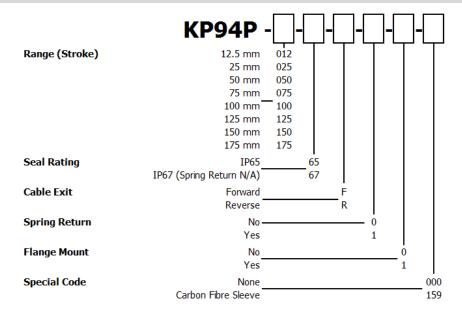
- Damper Position
- Throttle Pedal
- Aero Surface
- / Actuators

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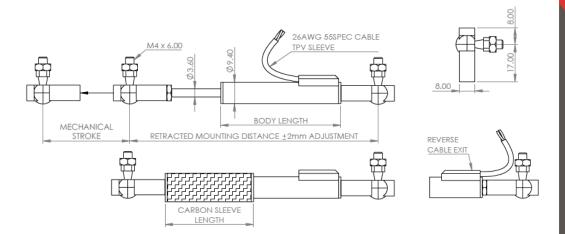
PRESSURE | TEMPERATURE | FORCE | TORQUE | POSITION | SPEED | ACCELERATION | GYRO

PART NUMBER CONFIGURATOR



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

MECHANICAL **D**ETAILS



Active Electrical Stroke (mm)	12.5	25	50	75	100	125	150	175
	98	110	135	160	191	216		266
Retracted Mounting Distance (mm)							241	
Mechanical Stroke (mm)	14.5	27	52	77	102	127	152	177
Body Length (mm)	53	66	91	116	147	172	197	222
Weight Without Cable (g)	19	21	25	29	33	37	41	45
Resistance (KOhms±20%)	0.8	1.7	3.4	5	6.7	8.4	10	11.7
Carbon Sleeve Length (mm)	24.5	37	62	87	112	137	162	187

CONNECTION DETAILS

+Ve Supply	OV Supply	Signal
Red	Black	Yellow

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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