

KP94 SERIES KP94B MINIATURE LINEAR POSITION SENSOR



Sensors For Motorsport

Features

- 0.37" Diameter Body
- Ranges from 0.5" 7"
- Carbon Sleeve
- Bearing Mounting
- ±0.5% Accuracy

The KP94B miniature linear position sensors 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 KP94B offers high performance and reliability under extreme temperature and vibration.

With standard measurement ranges from 0.5" to 7", the stainless steel shaft is fitted with sealing to IP65 as a standard but with an option of IP67 to protect against even the harshest conditions. A carbon sleeve option is available to protect the shaft against debris and other damage.

Industry standard 0.11" bearing mounting, with a cable exit option of either forward or reverse, allow for easy integration into existing or new applications.

Other accessories including flange mount, return spring, etc. are available and detailed on a separate KP Series Accessory Data Sheet.

TECHNICAL SPECIFICATIONS

Ranges (Inches)	0.5, 1, 2, 3, 4, 5, 6, 7	
Resolution	Essentially Infinite	
Repeatability	≤0.0004"	
Operational Speed	10m/s Maximum	
Mechanical Life	>25 Million Cycles	
Power Supply	5V typical (40Vdc Maximum)	
Wiper Current	<10µA	
Linearity	≤0.5%	
Electrical Connection	20" 26AWG, 55spec + TPV Sleeve	
Track Technology	Conductive Plastic	
Operating Temperature Range	-40°F to 300°F (-40°C to +150°C)	
Construction	Aluminum housing and stainless steel shaft	
Protection Class	IP65 or IP67	
Options	Please see our separate KP Series Accessories Datasheet	

Applications

- Damper Position
- Throttle Pedal
- Aero Surface
- Actuators

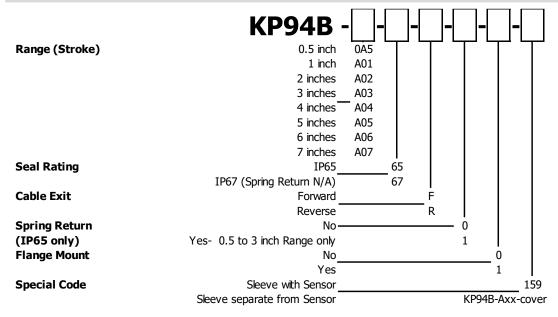
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PMC/KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice

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

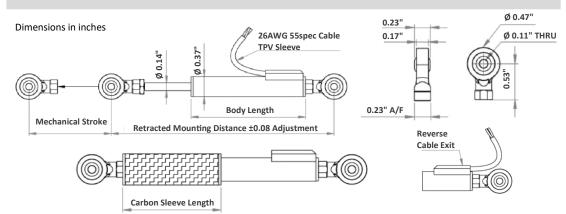
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PART NUMBER CONFIGURATOR



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

MECHANICAL **D**ETAILS



Active Electrical Stroke (inches)	0.50	1.00	2.00	3.00	4.00	5.00	6.00	7.00
Retracted Mounting Distance (inches)	3.39	3.86	4.84	5.83	7.05	8.03	9.02	10.00
Mechanical Stroke (inches)	0.57	1.06	2.05	3.03	4.02	5.00	5.98	6.97
Body Length (inches)	2.09	2.60	3.58	4.57	5.79	6.77	7.76	8.74
Weight Without Cable (oz)	0.53	0.60	0.74	0.88	1.02	1.16	1.31	1.45
Resistance (Kohms ±20%)	0.80	1.70	3.40	5.00	6.70	8.40	10.00	11.70
Carbon Sleeve Length (inches)	1	1.5	2.5	3.5	4.5	5.5	6.5	7.5

ELECTRICAL 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 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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