

## KP SERIES KP15S STANDARD MEDIUM DUTY LINEAR POSITION SENSOR



The KP Series of KP15S Medium Duty Linear Position 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 KP15S offers high performance and reliability under extreme temperature and vibration.

With standard measurement ranges from 100mm to 250mm, 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

<b>Ranges (Zero mm to:)</b>	100, 150, 200, 250
<b>Resolution</b>	Essentially Infinite
<b>Repeatability</b>	≤0.01mm
<b>Operational Speed</b>	10m/s Maximum
<b>Mechanical Life</b>	>25 Million Cycles
<b>Supply</b>	5V typical (40Vdc Maximum)
<b>Wiper Current</b>	<10µA
<b>Linearity</b>	≤0.5%
<b>Electrical Connection</b>	50cm 26AWG, 55Spec + TPV Sleeve
<b>Track Technology</b>	Conductive Plastic
<b>Operating Temperature Range</b>	-40°C to +150°C
<b>Construction</b>	Aluminium Housing and Stainless Steel Shaft
<b>Protection Class</b>	IP65 or IP67
<b>Options</b>	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

- 15mm Ø Body
- IP67 Sealed
- Bearing Mounting
- 100mm to 250mm
- ±0.5% Linearity
- Long Life

### Applications

- Damper Position
- Throttle Pedal
- Aero Surface
- Actuators

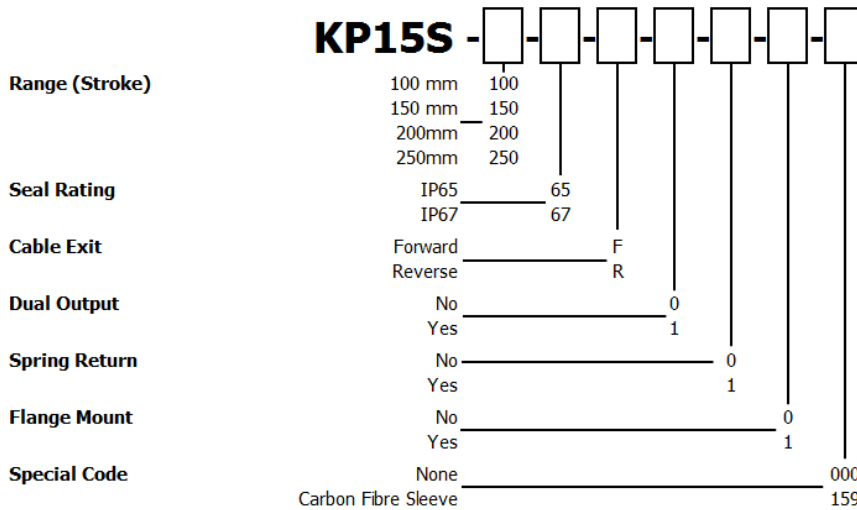
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# PART NUMBER CONFIGURATOR



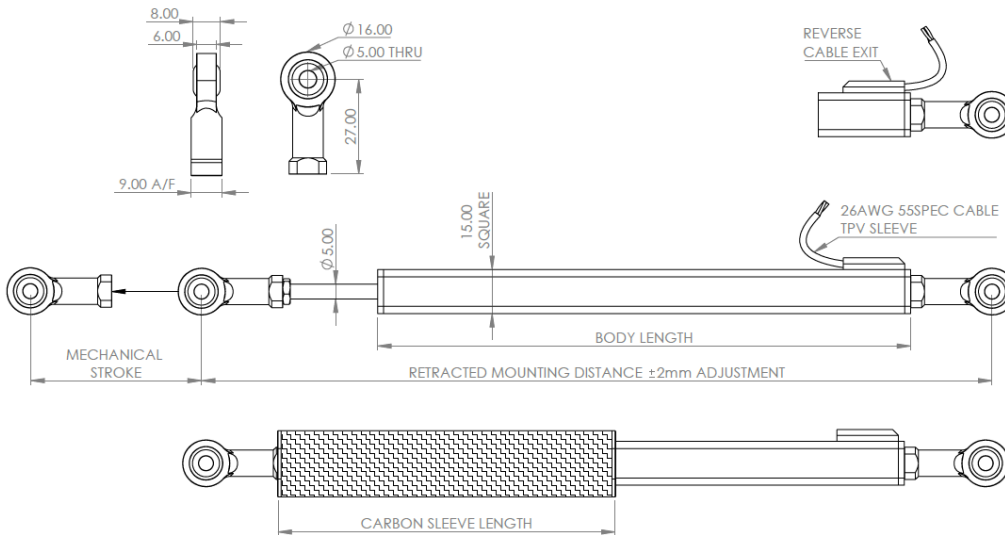
The KA configuration tool is used to specify a standard KA Sensor, other options are available.

*Sense  
Analyse  
Control*

## Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

## MECHANICAL DETAILS



Active Electrical Stroke (mm)	100	150	200	250
Retracted Mounting Distance (mm)	248	298	348	398
Mechanical Stroke (mm)	102	152	202	252
Body Length (mm)	182	232	282	332
Weight Without Cable (g)	109	116	123	130
Resistance (KOhms±20%)	6.7	10	13.4	16.7
Carbon Sleeve Length (mm)	115	165	215	265

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## CONNECTION 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 wire as this will cause damage to the sensor element.