

## KP SERIES KP19S Standard Heavy Duty Linear Position Sensor

The KP Series of KP19S Heavy 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 KP19S offers high performance and reliability under extreme temperature and vibration.

With standard measurement ranges from 25mm to 450mm, the Stainless Steel Shaft is fitted with IP67 rated seals which helps protect against the harshest conditions. With regards to operational temperature range, the KP19S offers high performance and reliability at temperatures up to +150°C. Alternatively, it is capable of operational excellence in cold environments down to -40°C.

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**

Ranges (Zero mm to:)	25, 50, 75, 100, 150, 200, 250, 300, 350, 400, 450
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 24AWG, 55Spec + FDR Sleeve (26AWG Dual O/P)
Track Technology	Conductive Plastic
Operating Temperature Range	-40°C to +150°C
Construction	Aluminium Housing and Stainless Steel Shaft
Protection Class	IP67
Options	Please see our separate KP Series Accessories Datasheet

Sense Analyse Control

## Features

- 19mm Ø Body
- IP67 Standard Sealed
- Bearing Mounting
- 25mm to 450mm
- ±0.5% Linearity
- Long Life

## Applications

- Damper Position
- Throttle Pedal
- Aero Surface
- Actuators

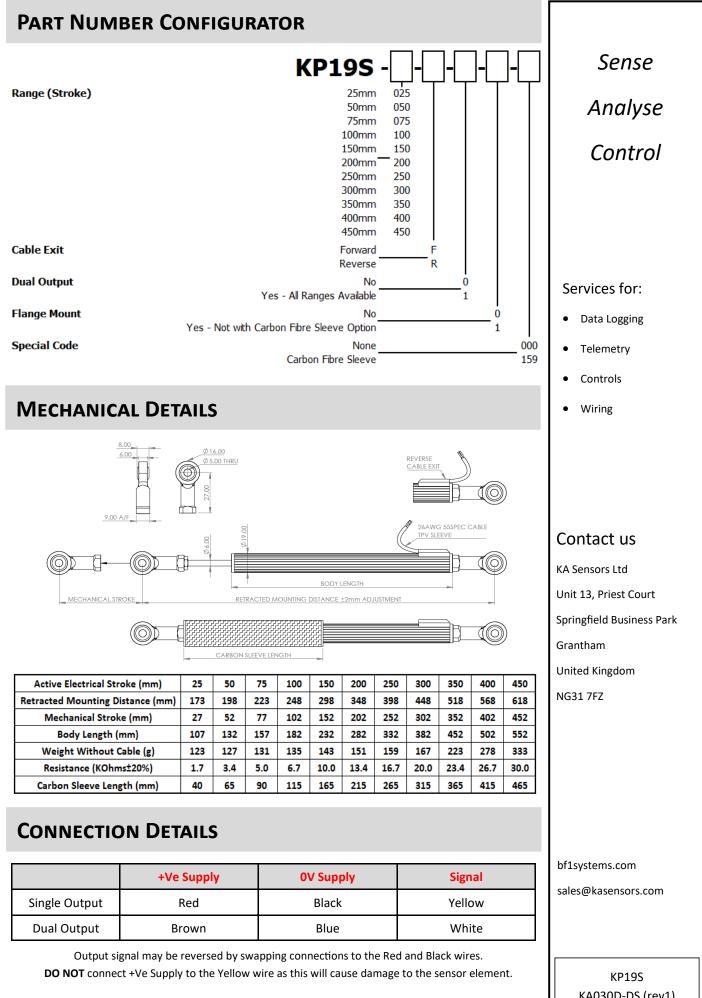
bf1systems.com

sales@kasensors.com

KP19S KA030D-DS (rev1)

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

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



ENGINEERING LED | CONFIDENTIAL | EXPERIENCED | RESPONSIVE | DYNAMIC | FRIENDLY

KA030D-DS (rev1)