

KBP SERIES BRAKE PEDAL LOAD CELL



The KBP Series of miniature low profile Load Cells are designed for the detection and measurement of compression forces on brake and other pedal applications.

Construction is stainless steel with a built-in amplifier which allows for a very simple installation; only 3 wires are needed for connection. Mechanical mounting is via 4x holes for either screw down or tie fixing.

The Low profile design ensures minimal interference with the pedal position.

The output signal is proportional to the amount of force and is a linear 0.5 to 4.5V and can be connected to most common data loggers.

The Load Cell is usually used for vehicle development measurements, but could also be used as a feedback device within control systems.

TECHNICAL SPECIFICATIONS

Range FS	0- 500N, 1000N, 1500N, 2000N
Safe Over Range	150% of Full Scale Range
Accuracy (Linearity)	±0.25% FS
Accuracy (Hysteresis)	±0.25% FS
Accuracy (Off Centre Loading)	<±2.5% FS Combined Linearity & Hysteresis (CNLH)
Thermal Effects	Zero ±0.01% FS/°C (Sensitivity ±0.01% of Reading /°C)
Output	0.5V to 4.5V and 1mV/V
Zero Balance	±0.5%FS
Supply	5V (±0.5V) Ratiometric or 8-16V
Operating Temperature Range	-40°C to +100°C
Compensated Temperature Range	0°C to +80°C
Construction	Stainless Steel
Electrical Connection	50cm or 100cm, 55Spec 26AWG Wire + DR25 Sleeve
Mounting Size	4 x 3.1mm Diameter Holes on 69mm PCD
Protection Class	IP65
EMC Protection	EN 50082-1
Vibration Protection	Mil-Std-810C, Curve L, 20G
Weight	190g (Excluding Cable)
Options	Connector Fitted and Labelling

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

Sensors For Motorsport

Features

- ±500 to ±2000N
- Miniature Size
- 5V or 8-16V Supply
- Integrated Amplifier
- Low Profile
- Rugged Construction

Applications

- Brake Force
- Pedal Force
- General Testing

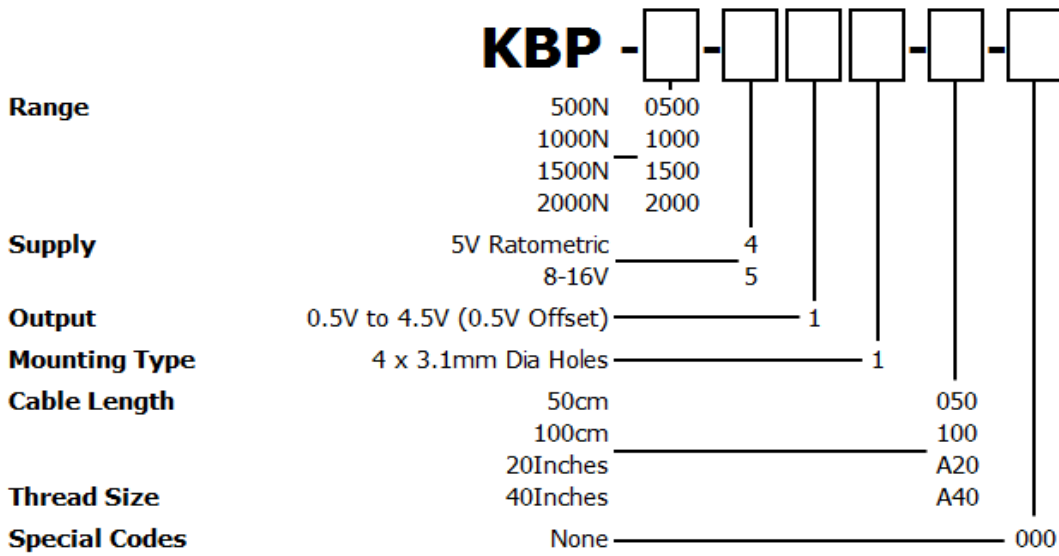
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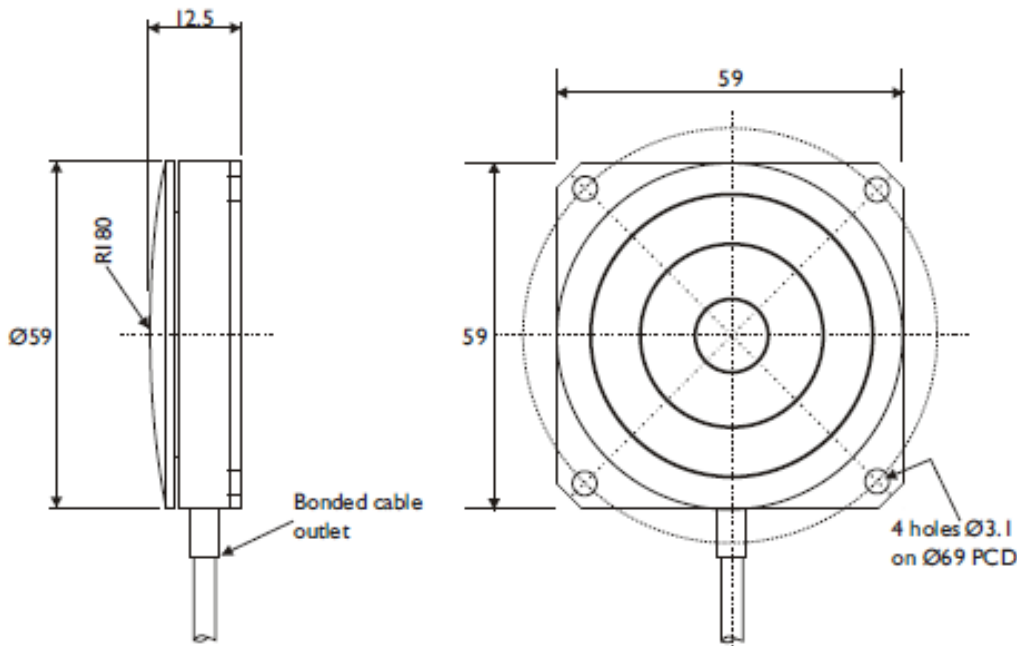
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PART NUMBER CONFIGURATOR



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

MECHANICAL DETAILS



CONNECTION DETAILS

+Ve Supply	0V Supply	Signal
Red	Black	White

*Sense
Analyse
Control*

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

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