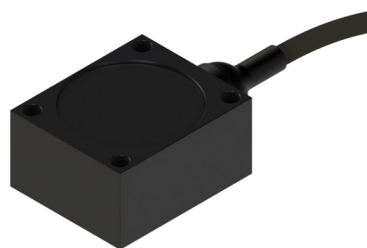


KAFT SERIES HIGH BANDWIDTH ACCELEROMETER



The KAFT Series of High Bandwidth Miniature Accelerometers offer a compact and robust solution for the motorsports and automotive testing industry.

The sensor offers 2 or 3 Axis of measurement with integral signal conditioning to give a standard signal of 0.5 to 4.5V; ideal for most data acquisition systems.

Supply voltage can be 5V or 8-16V with low current consumption of less than 30mA.

With a bandwidth of DC upto 4000Hz (range dependent) these sensors are useful for applications within component, full vehicle testing and development programs.

TECHNICAL SPECIFICATIONS

Range (g)	Standard Ranges: 5, 10, 20, 50, 100
Bandwidth	Ranges 5, 10g: 0-1500Hz Ranges 20, 50, 100g: 0-4000Hz
Resonant Frequency	5kHz for 5, 10g 20kHz for 20, 50, 100g
Safe Over Range	±5000g
Accuracy	<±0.25% FS Linearity
Cross Axis Sensitivity	<±2% FS
Thermal Effects	Zero ±0.03% FS/°C (Sensitivity ±0.03% of Reading /°C)
Output	0.5V to 4.5V (Offset 2.5V)
Supply	5V (±0.5V) Ratiometric or 8-16Vdc
Operating Temperature Range	-40°C to +125°C
Compensated Temperature Range	0°C to +100°C
Noise	>30ug/VHz
Construction	Anodised Aluminium
Electrical Connection	100cm, 26AWG 55 Spec wire + DR25 Sleeve
Protection Class	IP66
Weight	<30g (Excluding Cable)

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

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

*Sense
Analyse
Control*

Features

- High Bandwidth
- ±5g to ±100g
- 2 or 3 Axis Outputs
- DC Response
- Rugged Design
- Built-In Amplifier

Applications

- Structural Analysis
- Aero Performance
- Suspension Test
- Road Load Data

Bf1systems.com

sales@kasensors.com

KAFT

KA012A-DS (rev1)

PART NUMBER CONFIGURATOR

Range (±g)

Supply

Number of Axis

Special Code

KAFT -

5

005

10

010

20

020

50

050

100

100

5V

4

8-16V

5

3: X,Y,Z

3

2: X,Y

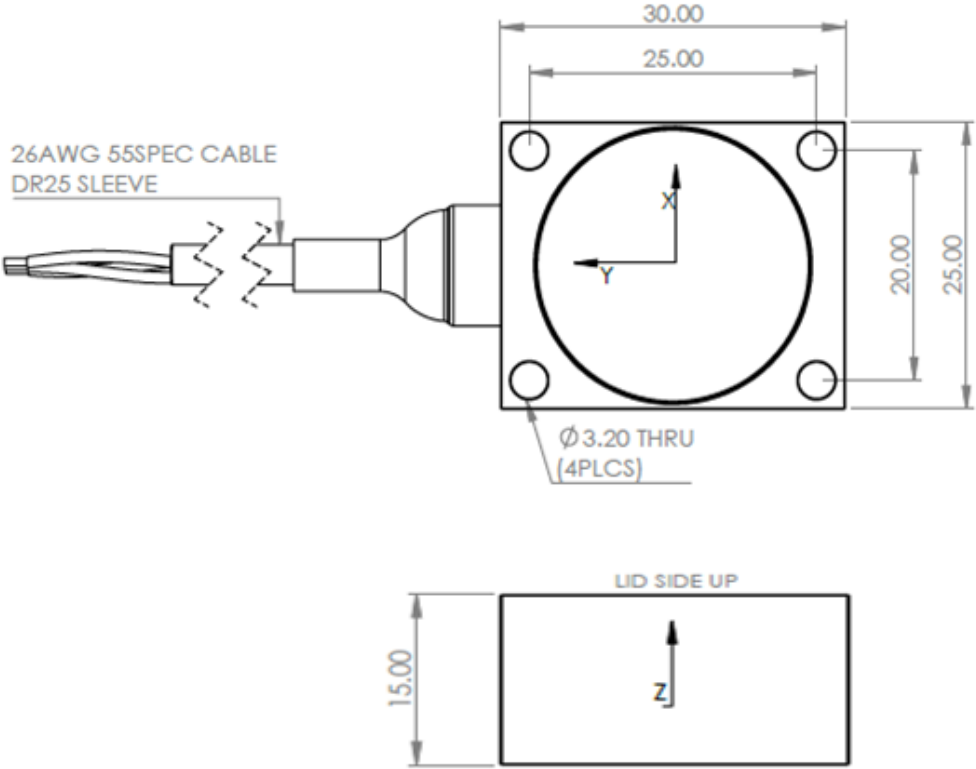
2

None

000

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

MECHANICAL DETAILS



CONNECTION DETAILS

+Ve Supply	0V Supply	Output (X)	Output (Y)	Output (Z)
Red	Black	White	Blue	Green

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

Sense
Analyse
Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

KA Sensors Ltd
Unit 13, Priest Court
Springfield Business Park
Grantham
United Kingdom
NG31 7FZ

bf1systems.com
sales@kasensors.com

KAFT
KA012A-DS (rev1)