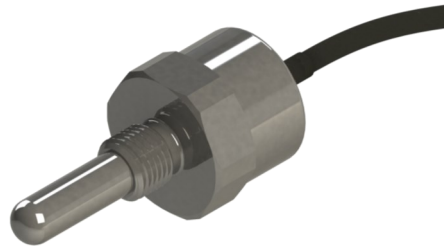


KMS SERIES OIL CONTAMINATION SENSOR



The KMS Series of miniature condition monitoring sensors are designed to detect the presence of ferrous material in oil systems.

In particular, the sensor can be used to monitor gearbox and transmission oil for signs of gear wear.

Some ferrous material is normally shed during the life of a gearbox, however a change in the material detected can indicate a premature failure of a component such as the gear or pump impeller.

Construction is stainless steel with a built-in amplifier which allows for a very simple installation. Integrated is a temperature sensor which also assists with the oil condition monitoring.

The tip of the sensor is extended away from the mounting thread so good oil contact is present.

Containing a powerful magnet, this attracts the ferrous material to the extended tip of the sensor. This is measured and presented as a 0.5 to 4.5V signal proportional to the quantity of material detected.

TECHNICAL SPECIFICATIONS

Range	0-100%
Supply	5V ($\pm 0.5V$) Ratiometric or 8-16V
Output	0.5 to 4.5V ($\pm 0.5\%$)
Operating Temperature	0°C to +150°C
Sensing Area	10-15mm from Sensor End
Temperature Measurement	PT1000, 2-Wire Class A
Construction	Stainless Steel
Mounting Size	Please See Part Number Configurator
Electrical Connection	50cm 55spec 26 AWG wire + DR25 sleeve
Protection Class	IP65
Weight (Excluding Cable)	40g
Options	Connector Fitting and Labelling

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

Sensors For Motorsport

Features

- Ferrous Detection
- Miniature Size
- 5V or 8-16V Supply
- Integral Temperature
- Rugged Construction

Applications

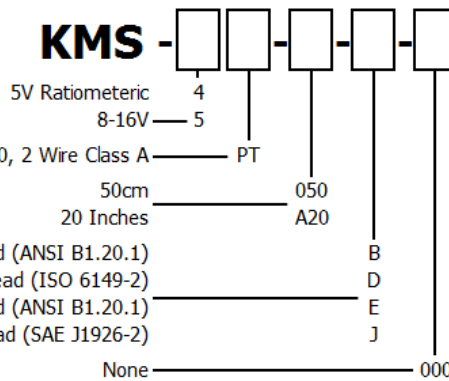
- Gearbox
- Transmission
- Pedal Position
- Engine
- Pumps

kasensors.com
sales@kasensors.com
+44(0)1476 568057

KMS 10.18

PART NUMBER CONFIGURATOR

Supply Voltage



Temperature Sensor

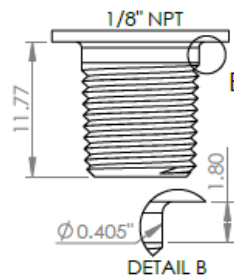
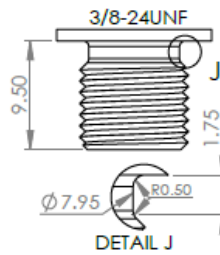
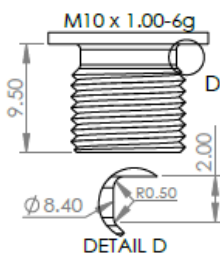
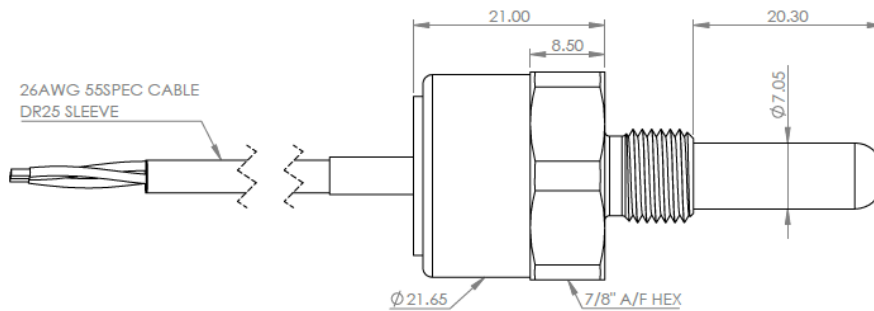
Electrical Connection Cable Length

Process Connection

Special Code

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	Temperature	Temperature
Red	Black	White	Blue	Green

Sense
Analyse
Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

KA Sensors Ltd
Unit 14 & 15
The Old Malthouse
Springfield Road
Grantham
Lincolnshire
United Kingdom
NG31 7BG

kasensors.com
sales@kasensors.com
+44(0)1476 568057

KMS 10.18