

KMS SERIES

OIL CONTAMINATION SENSOR

The KMS Series of miniature condition monitoring sensor 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 gear or pump impeller.

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

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

The sensor contains a powerful magnet which attracts 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.

**Sense
Measure
Control**

Features

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

TECHNICAL SPECIFICATIONS

Range FS	0 - 100%
Supply	5V ($\pm 0.5V$) ratiometric or 8-16V
Output	0.5V to 4.5V
Operating Temperature	0 to 150°C
Sensing Area	10—15mm from sensor end
Temperature Measurement	PT1000. 2-wire. Class A.
Construction	Stainless steel
Mounting Size	M10x1, 3/8-24UNF, 1/8NPT
Electrical Connection	50cm 55spec 26 AWG wire + DR25 sleeve
Protection Class	IP65
Weight	40g excluding cable
Options	Connector fitted, labelling

Applications

- *Gearbox*
- *Transmission*
- *Engine*
- *Pumps*

Contact us

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

KAlibrated solutions for motorsport

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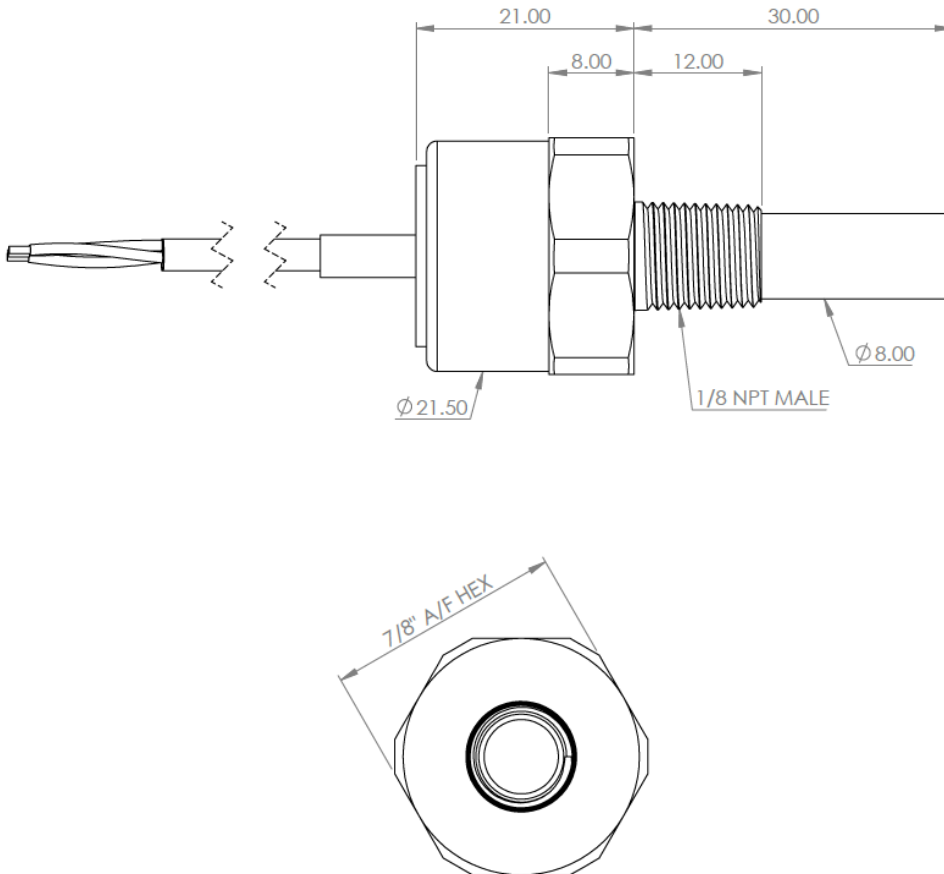
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KMS 5 PT 050 B 000

Supply Voltage	5V Ratiometric	4		
	8-16V	5		
Temperature Sensor			PT	
Electrical Connection Cable Length	50cm		050	
	20 inches		A20	
Process Connection	M10x1			D
	3/8-24UNF			J
	1/8NPT			B
Special Code	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	Signal	Temperature	Temperature
Red	Black	White	Blue	Green

**Sense
Measure
Control**

Sensors for

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services for

- Data Logging
- Telemetry
- Controls
- Wiring
- Design

KA Sensors are

- Engineering led
- Confidential
- Experienced
- Responsive
- Dynamic
- Friendly

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