

Baumer Oil Level Switch.

Designed for Reliability

The new Baumer Oil Level Switch brings capacitive frequency sweep technology to the agriculture and construction industry. This Baumer Oil Level Sensor is superior to established technologies, such as float switches, fixed frequency capacitive and electro-optical level sensors. This sensor's automotive grade design can be easily integrated into any fluid reservoir. The Baumer Oil Level Switch is factory pre-set for all sorts of oils such as hydraulic oil and tractor fluids.

Oil Level Switch Benefits

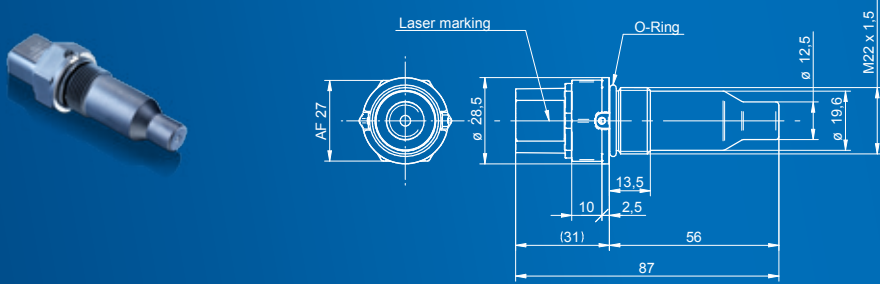
- **Efficiency:** Increased equipment productivity due to less arbitrary interruptions
- **Cost Reduction:** Less serious damage, less maintenance cost and reduced repair downtime due to adequate alerts and diagnostics
- **Time to Market:** Faster development due to easy design-in and automotive grade product design and qualification



Oil Level Switch Advantages

- Does not fail to warn even if
 - oil sticks to sensor
 - oil drizzles on sensor
- No false warnings even if
 - oil is aerated
 - bubbles are present
 - there are particles in oil
 - there is turbulent flow in oil
- Easy system integration as sensor can be mounted at any location with standard O-Ring port
- Field proven, hermetically sealed plastic housing in automotive grade and standards based design

Product overview CFAK 22 U9500/AMP



Part number	Electrical specification	Mechanical interface	Ambient conditions	Output function
CFAK 22 U9500/AMP	<ul style="list-style-type: none"> ■ U_{supply}: 4.75 V ... 5.25 V ■ I_{avg}: < 10 mA ■ I_{peak}: < 42 mA 	M22 × 1.5 O-Ring port (ISO 6149-1)	<ul style="list-style-type: none"> ■ Storage temperature: -55 °C ... +125 °C ■ Medium temperature continuous operation (< 30 min) -40 °C ... +100 °C (115 °C) ■ Environment temperature continuous operation -40 °C ... +85 °C 	<ul style="list-style-type: none"> ■ In air: 2.75 V ... 3.25 V ■ In liquid: 1.25 V ... 1.75 V ■ Fault: 0.50 V ... 1.00 V ■ Load: ≥ 930 Ohm to GND ■ Load capacitance: ≤ 200 nF

Some application fields for the Baumer Oil Level Switch

Differential Case/Gear Box

- Liquid level monitoring for all sorts of oil
- Tractor fluids are used as transmission fluid, wet brake fluid, power steering fluid, and hydraulic oil for power take off



Oil/Fluid Tank

- Liquid level monitoring for all sorts of oil, such as hydraulic oil and tractor fluids
- Prevents damage caused by low fluid level



Leakage Detection

- Monitoring the oil level to reveal leakage
- For unpressurized oil circuits



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