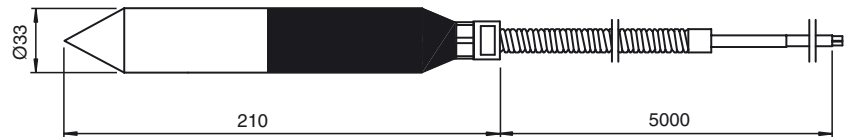




Dimensions



Type code

KVF-103-PF

Features

- 18 V DC supply voltage
- Monitoring of oil level thickness
- Capable of distinguishing between oil and water
- No moving parts
- Simple mounting

Function

The oil level sensor KVF-103-PF is a suspended sensor for monitoring oil layer thickness in oil/petrol separators. The sensor must always be connected to an approved, intrinsically safe warning device of type NVOA-130, NVO-4A30, NVO5-15, NVO5-11 or NVO5-111.

The sensor has an integrated electronic circuit which, via an oscillator circuit, emits a weak HF signal that changes depending on whether the sensor element is surrounded by water or by oil/air.

The sensor is mounted suspended and immersed in liquid.

The sensor can distinguish between air and water, and between water and oil, but not between air and oil.

Technical data

Supply		
Rated voltage		18 V DC
Directive conformity		
Electromagnetic compatibility		
Directive 2004/108/EC		EN 61000-6-2, EN 61000-6-3
Conformity		
Protection degree		IEC 60529
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications		
Protection degree		IP68
Connection		cable , length 5 m (15 ft) , lead cross section 2 x 1 mm ²
Material		Stainless steel
Mass		approx. 1000 g
Dimensions		Ø33 x 210 mm (Ø1.3 x 8.3 in)
Data for application in connection with Ex-areas		
EC-Type Examination Certificate		DEMKO 07 ATEX 142592 X
Group, category, type of protection, temperature classification		⊕ II 1G EEx ia IIB T3
Voltage U_i		24 V
Current I_i		400 mA
Power P_i		1.6 W
Internal capacitance C_i		60 nF
Internal inductance L_i		0.2 mH
Directive conformity		
Directive 94/9/EC		EN 60079-0:2009, EN 60079-11:2007, EN60079-26:2007
General information		
Supplementary information		EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .
Accessories		
Designation		- cable connector for one sensor LAL-SK2 - mounting set for one sensor NVO5-B