



Characteristic	Area of Application / Media		Transportation / Installation	
	E3 inflammable	E10 fuel oil		

The oil alarm OM5 consists of a plotting part and maximal five probes. The signal part and the probes are interlinked with three-conductor signal lines.

Plotting Unit

The signal part contained in an impact-resistant plastic housing, the indication- and control elements as well as all electronic components for interpretation and transformation of the probe signals in a digital output signal. The output signal is available as floating relay contact (change over contact).

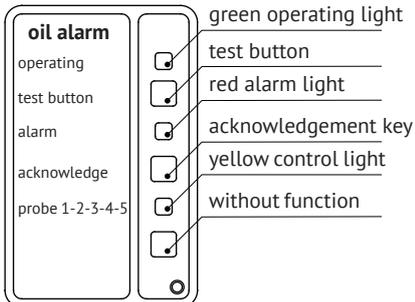
Probe

A probe consists of an infrared-transmitter and an infrared-receiver, which are fastened in a specific distance with each other. Both parts form a light barrier together. With air between the transmitter and the receiver, much of the infrared radiation produced by the transmitter will reach the receiver. When the probe is immersed in water, only a little of radiation will reach the receiver. The probe is provided with a three-conductor signal line.

Function

The oil alarm OM5 monitors the appearance of oil accumulation on up to five independent positions. When one or more probes are immersed in liquid, the signal part will discover the changed signal of probes and alarms optically and acoustically and confirms the out put relay.

Plotting Unit



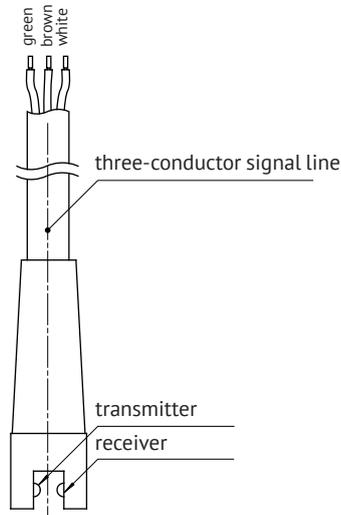
Function of Plotting Unit

The signal part monitors consistently the electric out put signal of the probes. In the state of operational readiness, the green operating light is on. If the probes are in the air, the signal part signals trouble-free operation: the green operating light is on; the red alarm light is off; and the relay falls off. If one or more probes are immersed in oil, the signal part will signal a leakage: the red alarm light and acoustic alarm will be on and the relay will be activated. In case of alarm the acoustic alarm can be shut off with the help of the acknowledgment key. The test button enables the function control though simulation of a case of alarm.

Function of Probes

The probe acquires the different optical properties of air and liquids. The probe is fastened on the deepest point of control room pendulously or recumbently. Oil accumulations will be recognized from a height of ca. 4mm. The connection to the signal part is made by a three-conductor cable.

Probe Optoelectronic Light Barrier



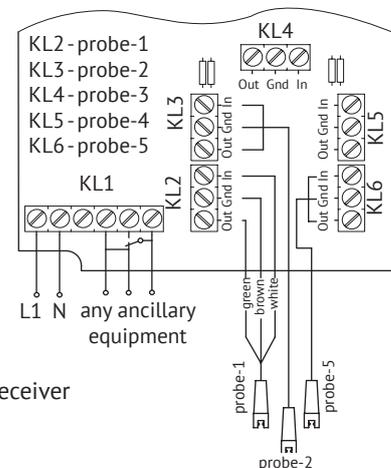
Technical Data of Plotting Unit

dimensions
housing (w x h x d) 100 x 188 x 65 mm
weight: 0,5kg
response delay: 2 seconds
emissions: sound level at least. 70 dB(A)
temperature application range
environment: -10 °C to +60 °C
power supply
nominal voltage: AC 230 V +/- 10 %, 50/60 Hz
nominal capacity: 5 VA

Technical Data of Probe

dimensions: (Ø x L) 10 x 33 mm
weight: 0,3 kg
body of the probes: plastic
element of the probes: infrared-transmitter/-receiver
connection cable: LiYY 3 x 0,25 mm²
standard length: 10 m
max. length: 50 m (shielded)
temperature application range: -10 °C to +60 °C

Electrical Connection 230 V, 50 Hz



Material	Approval	Documentation	Sheet
	Type Approval BW 47-8914.33	Operating Instruction 1x English	1 of 1