

NK08 | Level Sensing Probe – GL structural tested

Application

The model NK08 series are standardised conductivity type level sensing probe units for detection and control of liquid levels. A NK08 level sensor probe is typically used with a model ER76 (GT76) Electronic Control Unit. This combination is suitable for a wide range of level control applications, such as:

- Protection of pumps against dry running
- Monitoring condensate level

Principles of Operation

The NK08 uses the conductivity of liquids for liquid level detection. When the liquid is in contact with the electrode, a small current flows to the earth electrode (metal body with female thread, switching point 3). Conductivity type level sensors are compatible with liquids with a conductivity of 5 $\mu\text{S}/\text{cm}$ or higher. The contact with conductive liquid causes the output relay to switch.


Diesel oil filter example:

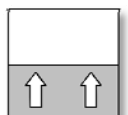
Bottom-up installation

When switching point 1 is wetted with conductive liquid the switching points 3 and 1 are connected. Now the valve opens and the liquid (condensate) is emptied. The valve in connection with the switching relay remains open until switching point 2 recognizes no conductive liquid anymore. Then the valve closes and the procedure starts again.



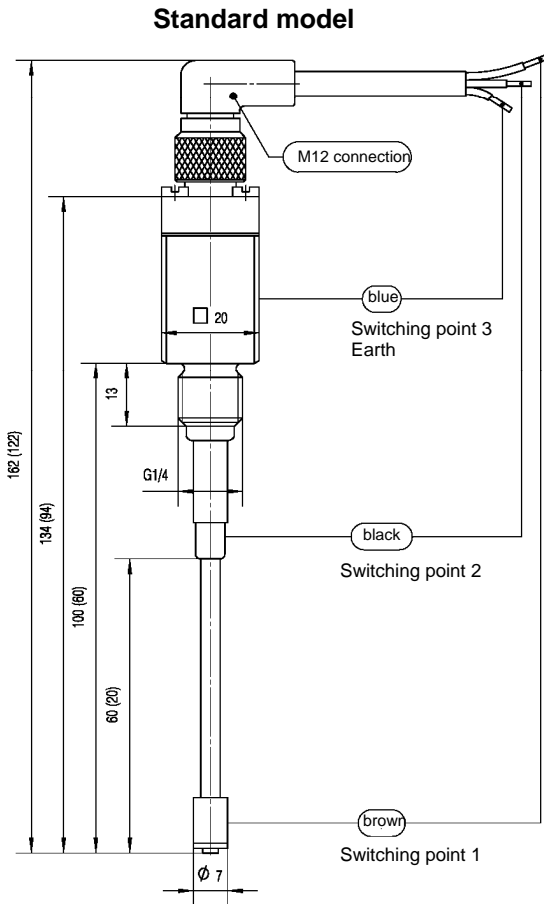
Specifications

Operating pressure	6 bar (max.)
Enclosure classification	IP 65
Electrical connection	M12 connection plug, 4 pin
Max. rated voltage	125V
Media temperature	60°C (max.)
Ambient temperature	-20 to +50°C
Materials:	
Electrode head	1.4305
Electrode	Stainless steel (1.4305)/ Viton®
Liquid Conductivity	5 $\mu\text{S}/\text{cm}$ (min.)
Threaded stem	G 1/4 A
Approval (option)	Type test according to the German Lloyd directives, test mark  No. 59 366 - 08 HH (see Ordering Code)

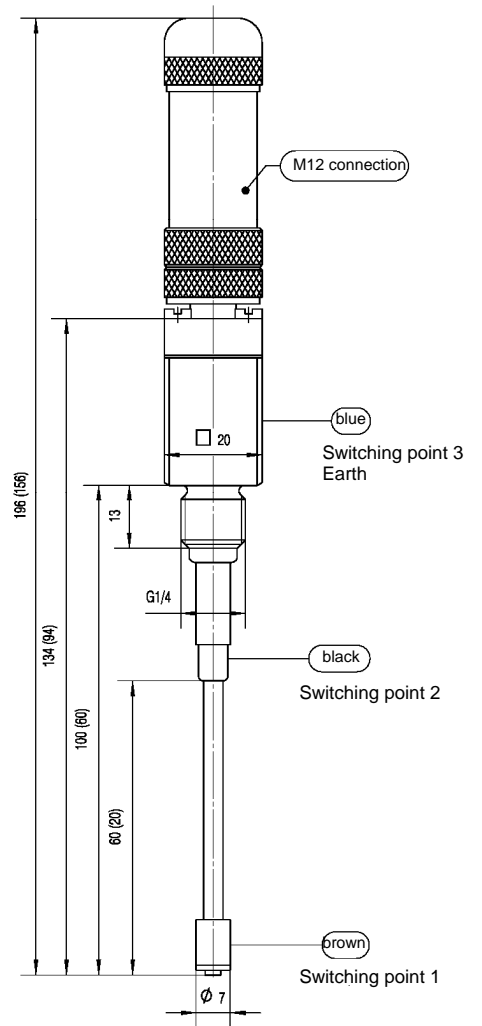
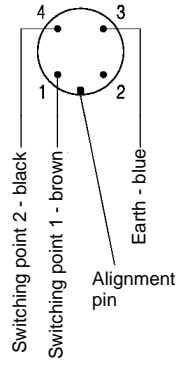


Dimensions (all units in mm unless stated otherwise)

GL type approved model



Pin assignment



Ordering Code

Level Sensing Probe	NK08
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Number of Switching Points

2 Switching Points > 2

Electrode Sheathing / Gaskets

Viton® > 1

Materials

Electrode head and electrode 1.4305..... > 0

Length of Electrode (measured from sealing surface)

60 mm > 0 6 0

100 mm > 1 0 0

Approval Options

Standard model > 0

GL type approved model > Z

