

NK08 || Level probe - DNV-GL type-tested

Application

Level probes of type series NK08 are used in connection with transistor control relays ER76 for automatic control of conductive liquids and regulation of liquid levels.

For example:

- Pumps protected against dry running,
- condensate levels can be monitored.

Principles of Operation

As soon as the liquid moistens the electrode, a conductive connection to the ground electrode is created (metal body with screw-in thread, switching point 3), depending on the method of operation. The conductivity of the liquid must be at least 5 $\mu\text{S}/\text{cm}$. Contact with the conductive liquid sets and switches the output relay.

Example diesel oil filter:

Mounting from bottom

If the contact switching point 1 is wetted with the conductive liquid, the switching points 3 and 1 are connected. In this case the contact switching point 1 is wetted with the conductive liquid.

moment the valve opens and drains the liquid (condensate). The valve remains open in conjunction with the switching relay until switching point 2 no longer detects any conductive liquid. Now closes the valve and the process starts again.

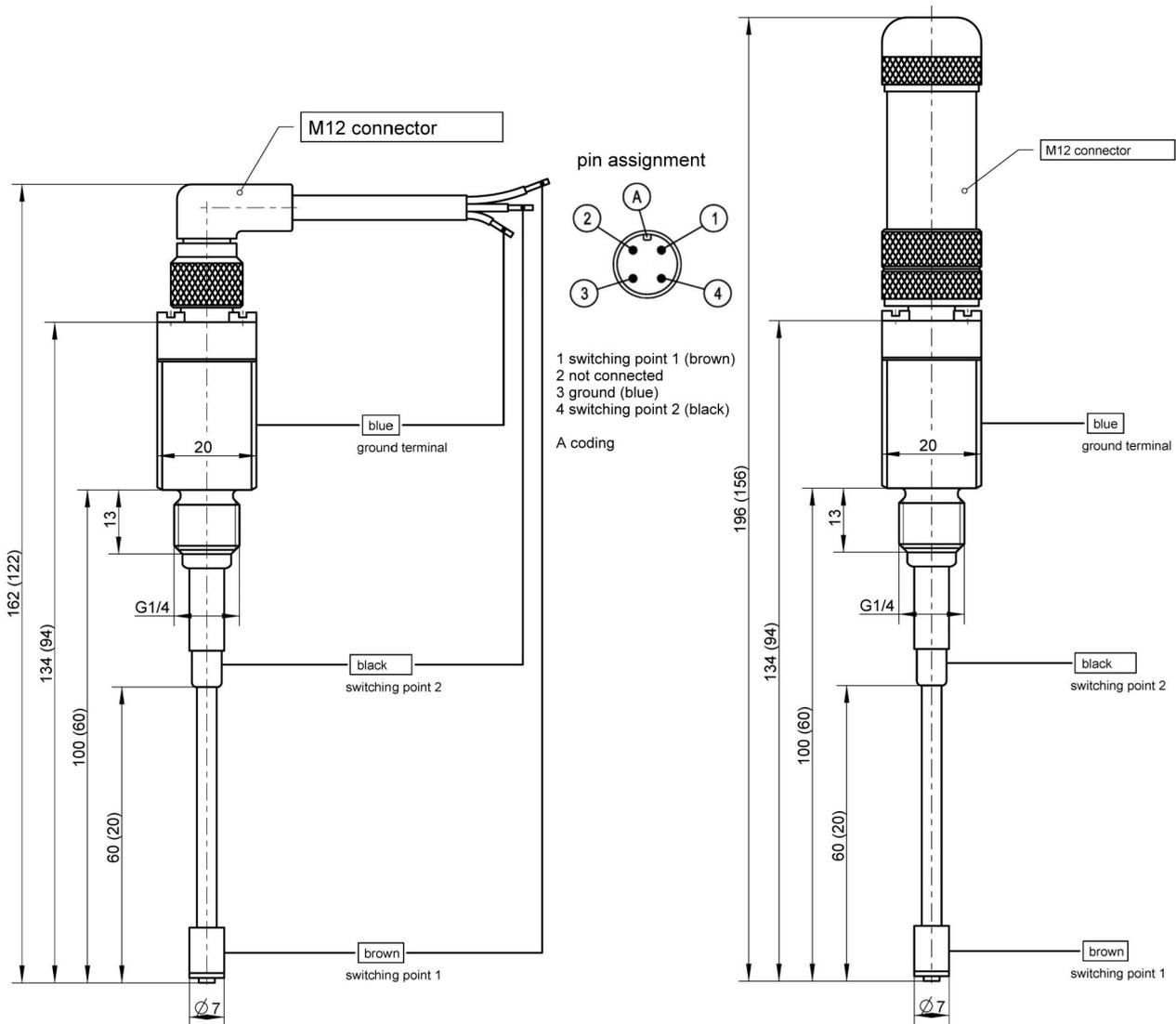


Specifications

Operating pressure	6 bar (max.)
Protection class	IP 65
Electrical connection	M12 connection plug, 4 pin
Max. rated voltage	125V
Perm. medium temperature	60°C
Perm. ambient temperature	-20 to +50°C
Material: Electrode head	1.4305
Material: Electrode	Stainless steel (1.4305)/ Viton®
Conductivity of the liquid	5 $\mu\text{S}/\text{cm}$ (min.)
screw-in spigot	G 1/4 A
Approval	
DNV-GL type-tested	Certificate no. TAA001ZT



Dimensions (all units in mm unless otherwise stated)



Ordering code

Level Sensing Probe	NK08	2	1	0			0	
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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

DNV-GL type approved model > Z