



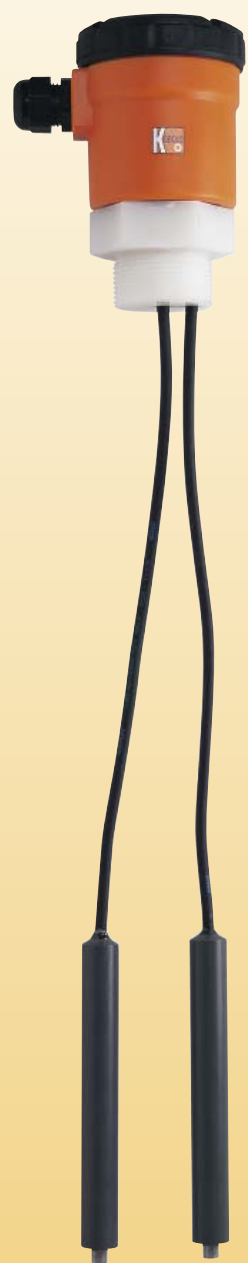
# Conductive Suspended Electrodes

for Conductive Liquids



measuring  
•  
monitoring  
•  
analysing

## NEH



- $p_{max}$ : 6 bar;  $t_{max}$ : 150 °C
- Connection: G 1/2, G 1 1/2
- Electrode material: Stainless steel, Hastelloy, Titanium
- Cable material: NBR or PTFE



N1

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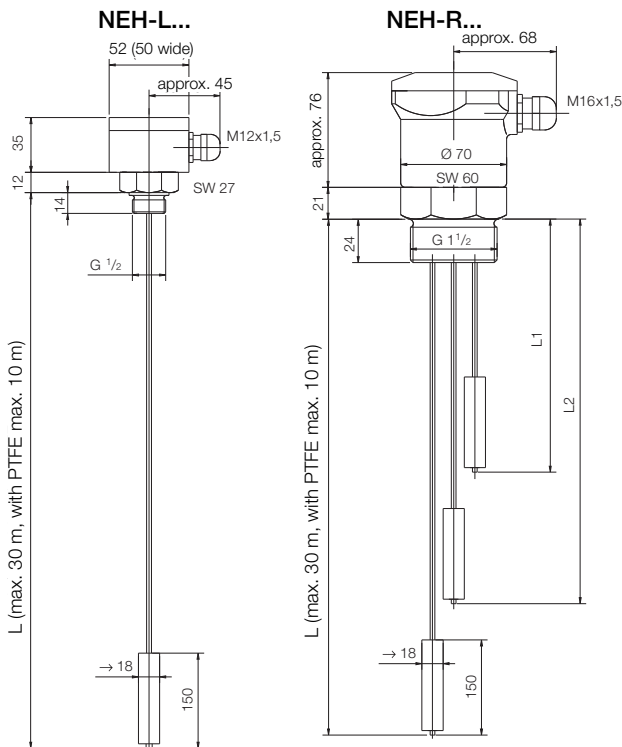
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**Description**

KOBOLD limit switches model NEH are used for level monitoring and pump control of conductive liquids. The instruments operate on the conductive principle. A low a. c. voltage is applied between the conductive side of the tank or the earth electrode (longest electrode) and a switching point electrode. If the conductive medium touches the electrodes, a negligible alternating current flows across the electrodes and the conductive medium to the electrode relay. Suspended electrodes are ideally suited for installation when space is at a premium.

The relay amplifies the alternating current and operates a switching relay or a pump controller. An electrode relay of type NE-104 is required per switch point for signalling. For min./max. control two switching point electrodes must be connected to the relay. Relay NE-304 operates as two single relays (NE-104).

**Dimensions**



**Technical Details**

- Housing: Polyamide or aluminium
- Connections: Polypropylene or PTFE  
G 1/2 (single electrode)  
G 1 1/2 (2 - 6 fold electrode)
- Electrodes: stainless steel 1.4571, Hastelloy or Titanium
- Cable insulation/ body of electrode: NBR/PVC  
PTFE/PTFE
- Cable diameter: 6 mm (NBR)  
2 mm (PTFE)
- Max. length: NBR cable 30 m,  
PTFE cable 10 m
- No. of electrodes: 1 ... 6
- Max. temperature: 60 °C (NBR cable)  
150 °C (PTFE cable)
- Max. pressure: 6 bar
- Min. conductivity: 20 µS/cm
- Protection: IP 65

**Electrode relay**

For technical details please refer to data sheet model NE.

**Order Details for electrode relay**

Description of electrode relay	Supply		
	Order No. 24 V <sub>AC</sub>	Order No. 230 V <sub>AC</sub>	Order No. 110 V <sub>AC</sub>
1 limit signal or 1 min./max. control	NE-1042	NE-1040	NE-1041
2 limit signals or 2 min./max. controllers	NE-3042	NE-3040	NE-3041

**Order Details** (Example: NEH-REN1)

Model	Description	Housing	Electrode material	Cable insulation/ body of electrode	Screwed fitting	Number of electrodes*
NEH-	Conductive suspended electrodes	R = Polyamide L = Aluminium 0 = without (with 2 m cable)	E = Stainless steel	N = NBR / PVC  V = PTFE / PTFE	P = Polypropylene  F = PTFE	1 = 1 electrode
			H = Hastelloy C			2 = 2 electrodes
			T = Titanium			3 = 3 electrodes
			E = Stainless steel			4 = 4 electrodes
						5 = 5 electrodes
						6 = 6 electrodes

\* Please show the length of electrodes in the clear text