



Conductive Level Limit Switches

for Conductive, Water-Contaminating Liquids



measuring
•
monitoring
•
analysing

NEW



- Overfill protection for vessels with water contaminating liquids (§ 19 WHG)
- Pressure: pressureless
- t_{\max} : 60 °C
- Connection: G1 or G1 ½
- Electrode material: Stainless steel, Hastelloy, Titanium, Polyolefine or PTFE coated

N1



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KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
Head Office:
+49(0)6192 299-0
+49(0)6192 23398
info.de@kobold.com
www.kobold.com

Description

KOBOLD limit switches of model NEW are used for level monitoring and pump control of conductive liquids. The design without any moving parts also allows service with critical media with, for example, solid content, negligible density or high viscosity.

The instruments operate on the conductive principle. A low a. c. voltage is applied between the earth electrode and a switching point electrode. The a.c. voltage is electrically isolated from the mains for safety reasons. If the conductive medium touches the electrodes, a negligible alternating current flows across the electrodes and the conductive medium to the electrode relay. The relay amplifies the alternating current and operates a switching relay or a pump controller.

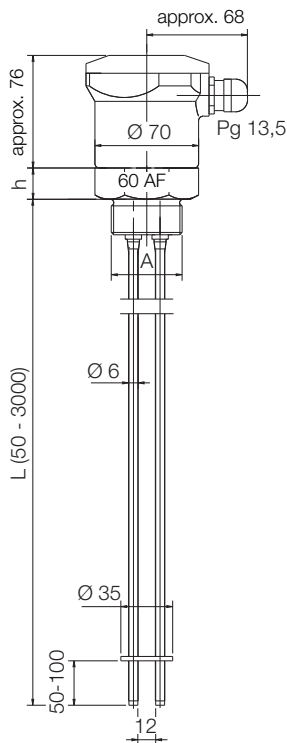
One electrode NEW-... and one electrode relay type NE-204 are required per switch point for overflow protection* (according to § 19 WHG).

Technical Details

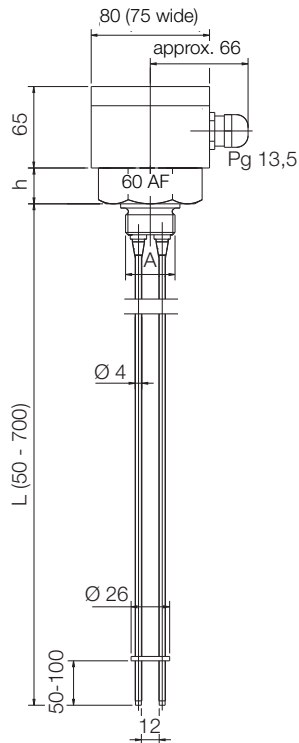
Housing:	Polyamide or aluminium
Connections:	G 1 or G 1 ½ Polypropylene,, PTFE or stainless steel 1.4571
Electrodes:	stainless steel 1.4571, Hastelloy or Titanium
Electrode coating:	PTFE (complete coating)
Number of electrodes:	2
Bridging resistance:	47 kΩ
Max. temperature:	-20 ... +60 °C
Max. pressure:	pressureless
Protection:	IP 65

Dimensions

NEW-P2 (E6, H6, T6)...



NEW-L2 (E4, H4, T4)...



Electrode relay

For technical details please refer to data sheet model NE.

Order Details electrode relay

Description of electrode relay	Supply	
	Order no. 24 V _{AC}	Order no. 230 V _{AC}
1 limit signal open-circuit detection, switches to the alarm state if auxiliary power fails.	NE-2042	NE-2040

Order Details (Example: NEW-P2 E 4 VP 25)

Model	Description	Housing and number of electrodes	Electrode	Electrode diameter and coating	Screw connection	Connection and length of electrodes
NEW-	Conductive level limit switches	P2 = Polyamide housing/ double-electrodes L2 = Aluminium housing/ double-electrodes	E = St. steel H = Hastelloy C T = Titanium	4 = Ø 4 mm PTFE-coating 6 = Ø 6 mm PTFE-coating	VP = Polypropylene VE = St. steel VF = PTFE	25 = G 1 (Ø 4 mm electrode max. 700 mm*) 40 = G 1 ½ (Ø 6 mm electrode max. 3000 mm*)

* For vessels for storing water-contaminating liquids