

Conductive Level Limit Switches

for conductive liquids



measuring monitoring analysing

NES



- p_{max}: 30 bar; t_{max}: 150 °C
- Connection: G½, G1½
- Electrode material: stainless steel, Hastelloy®, titanium
- Coating material: polyolefine, PTFE



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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

Conductive Level Limit Switches Model NES

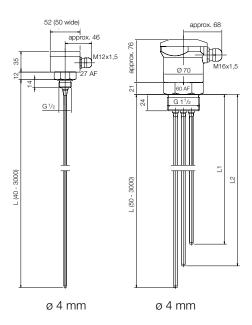


Description

KOBOLD limit switches of model NES are used for level monitoring and pump control of conductive liquids. The design without any moving parts 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 conductive wall 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. The relay amplifies the alternating current and operates an relay or a pump controller. An electrode relay of model 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

NES-L... NES-R...



Technical Details

Housing: polyamide or aluminium Connections: polypropylene. PTFE or stainless steel 1.4571 G½ (single electrode)

G1½ (2-6 fold electrode)

stainless steel 1.4571, Hastelloy® Electrodes:

or Titanium

Max. length of

electrodes: 3000 mm

Electrode coating: polyolefine, complete coating

PTFE complete or partial coating

No. of electrodes:

Max. temperature: 90°C (polyolefine coating)

150°C (PTFE coating)

6 bar (PTFE connection) Max. pressure:

> 15 bar (polypropylene connection) 30 bar (stainless steel connection)

Min. conductivity: $20 \mu S/cm$ Protection: IP 65

Electrode relay

For technical details please refer data sheet NE

Order Details for Electrode Relay

Description of	Supply			
Description of electrode relay	Order no. 24 V _{AC}	Order no. 230 V _{AC}	Order no. 110 V _{AC}	
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	



Oder Details (Example: NES-R E A P 1)

Model	Description	Housing	Electrode material	Electrode coating	Screwed fitting	Number of electrodes*
Conductive NES- level limit switches	R = polyamide L = aluminium	E = stainless steel	A = polyolefine complete coating	E = stainless steel P = polypropylene	1 = 1 electrode 2 = 2 electrodes 3 = 3 electrodes 4 = 4 electrodes 5 = 5 electrodes 6 = 6 electrodes	
		H = Hastelloy® C T = titanium E = stainless steel	T = PTFE partial coating (300 mm) V = PTFE- complete coating	E = stainless steel F = PTFE		

^{*} Please specify the length of electrodes in the clear text