



Conductive Level Switches for Conductive Liquids



measuring
•
monitoring
•
analysing

NEK



- Pressure: max. 20 bar
- Temperature: max. 85 °C
- Connection:
R $\frac{3}{4}$ or $\frac{3}{4}$ NPT
- Material:
PPS/stainless steel
Polypropylene/stainless steel



KOBOLD companies worldwide:

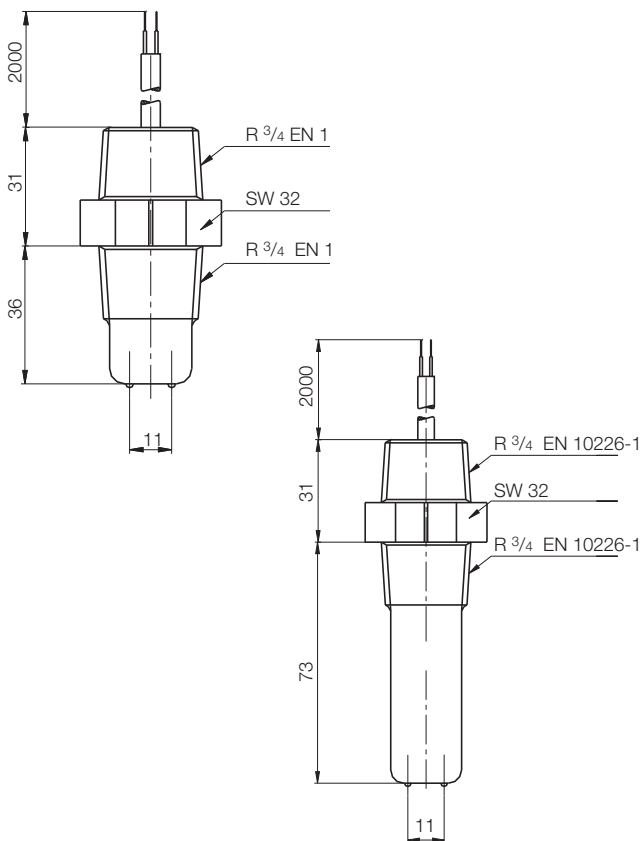
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Description

The KOBOLD level switch of model NEK is a complete functional unit which is specially designed for monitoring conductive liquids under extreme conditions. Due to the design without any moving or protruding parts, the switches are very suitable for monitoring critical media with, for example, solid content, negligible density or high viscosity. The double-thread allows a variety of installations. The length of the shaft can be extended by attaching an additional protective tube. The instruments operate on the conductive principle of measurement. The conductive medium touches both electrodes causing a negligible alternating current to flow; the output state changes.

Dimensions



Technical Details

- Housing: PPS or Polypropylene
- Electrodes: stainless steel 1.4571
- Connections: R 3/4 or 3/4 NPT male thread
- Operating temperature: -25 ... +85 °C (PPS)
-25 ... +60 °C (Polypropylene)
- Max. pressure: 20 bar (PPS)
6 bar (Polypropylene)
- Installation position: horizontal or vertical
- Contact components: open collector (NPN or PNP)
wet signal
- Option: relay (floating changeover contact)
- Electrical connection: 2 m encapsulated cable
3-core screened (open collector)
5-core unshielded (relay)
- Supply: 18-29 V_{DC}, < 20 mA
- Switch-in delay: dry/wet: 0.5 s
wet/dry: 0.5 s
- Sensitivity: approximately 50 kΩ
- Min. conductance: approximately 28 μS/cm
- Switch capacity: **Open Collector:**
max. 32 V / max. 100 mA
short-circuit-proof
Relay:
max. 1 A / 30 V
short-circuit-proof
- Protection: IP 68

Applications

- Chemical tanks
- Fresh-water tanks
- Mixing vessels
- Run-dry protection for pumps

Order Details (Example: **NEK-1136 R20 C**)

Immersion length	Contact	Model		Mechanical connection	Electrical connection
		PPS	Polypropylene		
36 mm	Open collector (NPN)	NEK-1136...	NEK-1236...	...R20... = R 3/4 ...N20... = 3/4 NPT	...C = 2 m PVC cable
	Open collector (PNP)	NEK-2136...	NEK-2236...		
	Relay (Umschalter)	NEK-3136...	NEK-3236...		
73 mm	Open collector (NPN)	NEK-1173...	NEK-1273...		
	Open collector (PNP)	NEK-2173...	NEK-2273...		
	Relay (Umschalter)	NEK-3173...	NEK-3273...		