Zertifiziertes QM-System
DIN EN ISO 9001
Zertifikat-Nr. 01017

Conductive Level Switches

for Conductive Liquids

measuring • monitoring • analysing

NEK

- Pressure: max. 20 bar
- Temperature: max. 85 °C
- Connection:
  R ¾ or ¾" NPT
- Material:
  PPS/stainless steel
  Polypropylene/stainless steel

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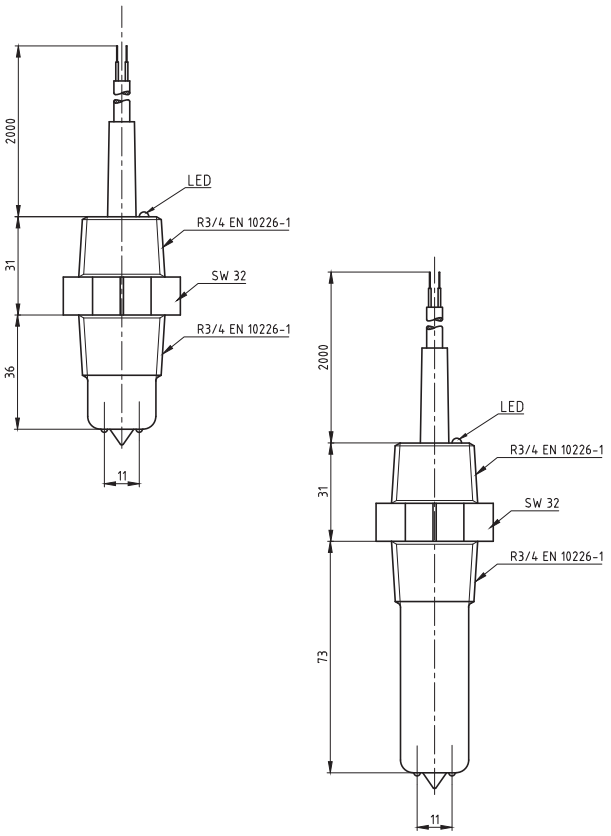
Description

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 lengthof 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 ¾ or ¾" 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:	approx. 50 kΩ
Min. conductance:	approx. 100 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 ¾ ...**N20**... = ¾ NPT	...**C** = 2 m PVC cable
	Open collector (PNP)	**NEK-2136...**	**NEK-2236...**		
	Relay (changeover contact)	**NEK-3136...**	**NEK-3236...**		
73 mm	Open collector (NPN)	**NEK-1173...**	**NEK-1273...**		
	Open collector (PNP)	**NEK-2173...**	**NEK-2273...**		
	Relay (changeover contact)	**NEK-3173...**	**NEK-3273...**		

No responsibility taken for errors;
subject to change without prior notice.

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