



Level Switches



measuring
•
monitoring
•
analysing

NV



- p_{\max} : 16 bar; t_{\max} : 110°C
- Material:
brass or stainless steel
- Connection:
G 3/4, M 27 x 1.5



NV

KOBOLD companies worldwide:

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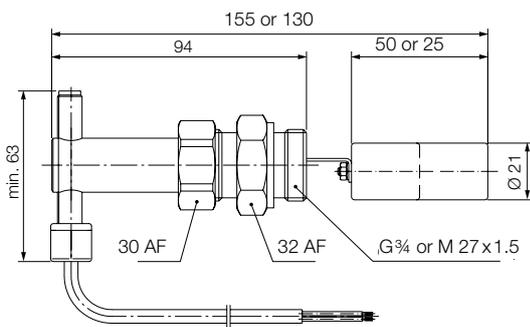
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Description

The KOBOLD level switch model NV is a reasonably-priced compact instrument for monitoring levels. A stainless steel cylindrical float attached to one end of a balance arm moves up and down with the liquid level.

The motion of the float is transferred to a permanent magnet fitted at the other end of the balance arm. The permanent magnet switches a reed contact that is fitted in a sliding tube outside the medium. The tube is set as a N/O contact at the factory, that is, the contact closes when the level rises. The switching function is reversed by moving the tube. The instruments are delivered in standard sleeves for side installation. PTFE tape is used to seal the switch.

Dimensions



Re-adjusting the contact unit

To re-adjust the contact unit the locking plate on the top part of the housing must be loosened and the contact unit moved.

Blue (white) or red arrows are situated on the contact unit for re-adjustment purposes. The front edge of the locking plate serves as an adjustment mark.

● **N/O contact:**

Adjust the contact unit near the red arrow. The contact closes as the liquid level rises.

● **N/C contact:**

Adjust the contact unit near the blue (white) arrow. The contact opens as the liquid level rises.

Technical Details

- Housing: NV-11...: brass, Ms 58
NV-12...: stainless steel, 1.4301
- Connections: NV-11...: brass, Ms 58
NV-12...: stainless steel, 1.4301
- Float: stainless steel, 1.4301
- Leaf spring: stainless steel, 1.4310
- Balance arm: stainless steel, 1.4310
- Sleeve: NV-11...: brass, Ms 58
NV-12...: stainless steel, 1.4301
- Contact tube: Polyamide
- Seal: NV-11...: NBR
NV-12...: FPM
- Max. temperature: 110 °C
- Max. pressure: 16 bar
- Installation position: horizontal

Bistable reed contact

- R** N/O contact / N/C contact Standard
max. 2 A, max. 230 V_{AC/DC},
max. 40 W, 40 VA
- U** Changeover contact Standard
max. 0.5 A, max. 150 V_{AC/DC},
max. 20 W, 20 VA
- C** N/O contact / N/C contact
2 A, 20 V_{AC}, 0.18 A, 230 V_{AC},
max. 40 W
- D** Changeover contact
0.13 A, 150 V_{AC}, 0.5 A, 40 V_{AC},
max. 20 W

- Electrical connection: PVC cable
- Contact resistance: max. 80 mΩ
- Closing point: max. 6 mm (above centre line)
- Opening point: max. 3 mm (below centre line)
- Switching hysteresis: approx. 8 mm
- Ex-range: ATEX-zone 1 as »simple apparatus«
- Density: >0.8 kg/dm³ ... 25 mm float
>0.7 kg/dm³ ... 50 mm float
- Protection: IP 65

Applications

- Heating boilers
- Car washes
- Cleaning machines

Order Details (Example: NV-1101R1)

Model	Material	Connection/length of float	Contact type	Cable type/length
NV-	11 = brass	01 = G $\frac{3}{4}$; 25 mm 02 = M27 x 1.5; 25 mm	R = N/O contact (Standard CE) C = N/O contact (cCSAus) U = Changeover contact (Standard CE) D = Changeover contact (cCSAus)	PVC cable 1 = 1.5 m (Standard) 2 = 2.0 m ¹⁾ 4 = 3.0 m ¹⁾ 6 = 4.0 m ¹⁾ 8 = 5.0 m ¹⁾ P = PVC cable, special length ²⁾ S = Silicone cable ²⁾³⁾ G = yellow PUR cable ²⁾³⁾
	12 = stainless steel	03 = G $\frac{3}{4}$; 50 mm 04 = M27 x 1.5; 50 mm		

¹⁾ only for N/O contact "R" and "C" ²⁾ length as described ³⁾ only for N/O contact "R"