NIVOFLOAT NL/NW

FLOAT LEVEL SWITCHES FOR POTABLE WATER, SEWAGE



DESCRIPTION

The NIVOFLOAT NL-100 float level switch is suitable for clean or slightly contaminated water. The NIVOFLOAT NW-100 tilting-float level switch is for sewage, tanks, basins, or cisterns. The waterproof dual-chambered float is injection-molded polypropylene, and the microswitch is incorporated into the float.

The cable is lead through a waterproof sealed entry point into the monolithic structure of the injection-molded plastic housing. It uses three copper wires of 1 mm² (AWG 17) cross-section, insulated with PVC or Neoprene. The double-walled design provides outstanding safety for users in terms of life and touch protection. In addition, the NIVOFLOAT is suitable for various control tasks, such as liquid level monitoring and pump control. These devices serve reliably provided their operating conditions are appropriately selected.

NL-100

OPERATION

The NIVOFLOAT NL-100 type float level switch featuring mercury-free contact is suitable for level switching of drinking water, raw water or polluted liquids with low solid content. The double-chambered float and the sealing of the cable outlet provide hermetic sealing and water-proof operation.

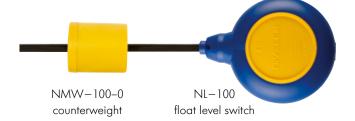
The NIVOFLOAT NL-100 is floating on the level of the measured liquid because its relative density is less than the water. The level switching is done when the contact reaches the $\pm 45^{\circ}$ switching angle. The switching differential of the level switch is adjustable by the position of the counterweight on the cable. The level switches should be arranged appropriately in case of multi-level switching tasks to avoid undesired tangling of the cables.

FEATURES

- Dual-chambered float
- Switching differential is adjustable by counterweight
- Up to 20 m (66 feet) cable length
- Medium temperature up to +50 °C (+122 °F)
- Process pressure maximum 1 bar (14.5 psi)
- Variants for potable water available
- IP68

APPLICATIONS

- Potable water
- Industrial and communal sewage
- Tank filling/emptying control
- Overfill protection

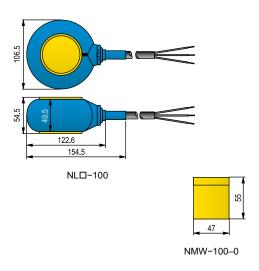




TECHNICAL DATA

NLD-1 DD-1		
Switching angle	±45°	
Medium temperature	0+50 °C (+32+122 °F)	
Process pressure	up to 1 bar (14.5 psi)	
Material of the float	Polypropylene	
Material of the counterweight	Polystyrene	
Float volume	$430 \text{ cm}^3 (26.25 \text{ in}^3)$	
Rating of the microswitch	10(4) A, 250 V AC, AC1	
Electrical life-span	10 ⁷ switches	
Ingress protection	IP68	
Cable	\varnothing 9 mm (0.35") / 3 × 1 mm ² (AWG 17)	
Cable length	5 m (16.5 ft), 10 m (33 ft), 20 m (66 ft)	
Weight (without cable)	250 g (0.55 lb)	

DIMENSIONS

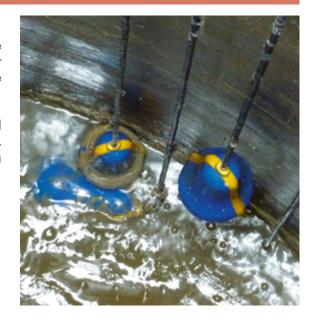


NW-100

OPERATION

The NIVOFLOAT NW-100 tilting level switch featuring mercury free contact is suitable for level switching of sewage, polluted liquids or drinking water. The double-chambered float and the sealing of the cable outlet provide hermetic sealing and water-proof operation.

The float should be immersed to the required level and fixed if needed. At the given level, the float will switch by tilting. The special shape of the float ensures proper tilting without using a counterweight.





FEATURES

- Special float shape
- Dual-chambered float
- Up to 20 m (66 feet) cable length
- Medium temperature up to +50 °C (+122 °F)
- Process pressure maximum 2 bar (30 psi)
- Variants for potable water available
- IP68

APPLICATIONS

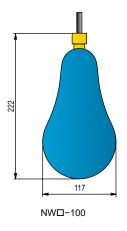
- Industrial and communal sewage
- Suitable for drinking water
- Tank filling/emptying control
- Overfill protection



TECHNICAL DATA

NWD-1DD-1		
Switching differential	~400 mm (15.7") (constant)	
Medium temperature	0+50 °C (+32+122 °F)	
Process pressure	up to 2 bar (30 psi)	
Material of the float	Polypropylene	
Float volume	1000 cm ³ (61 in ³)	
Rating of the microswitch	10(3) A, 250 V AC, AC1	
Electrical life-span	10 ⁷ switches	
Ingress protection	IP68	
Cable	\varnothing 9 mm (0.35") / 3 × 1 mm ² (AWG 17)	
Cable length	5 m (16.5 ft), 10 m (33 ft), 20 m (66 ft)	
Weight (without cable)	1.1 kg (2.4 lb)	

DIMENSIONS



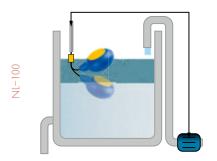




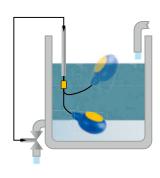
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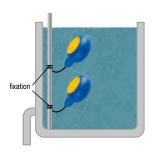
APPLICATION EXAMPLES



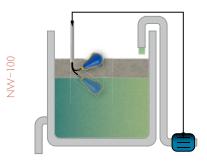
FILLING CONTROL

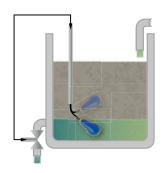


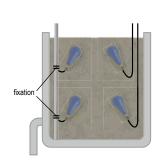
EMPTYING CONTROL



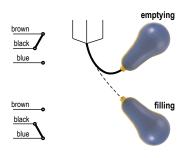
MULTI-LEVEL SWITCHING

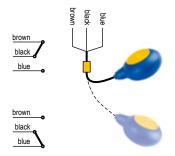




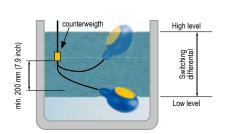


WIRING



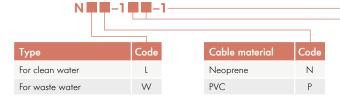


INSTALLATION



ORDER CODES (NOT ALL COMBINATIONS AVAILABLE)

NIVOFLOAT - dual-chambered float level switches



Cable length	Code
5 m (16.5 feet)	05
10 m (33 feet)	10
20 m (66 feet)	20

Counterweight* Without

*The NIVOFLOAT NMW-100-0 counterweight can be ordered separately

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