

FOR POTABLE WATER, SEWAGE

NIVOFLOAT

FLOAT LEVEL SWITCHES



3 YEARS WARRANTY @ NIVELCO - WHERE ELSE?

NIVELCO

LEVEL SWITCHES

APPLICATIONS

- For potable water
- For industrial and communal sewage
- Double-chambered float
- Tank filling / emptying control
- Medium temperature max. +50 °C (+122 °F)
- Process pressure max. 1 bar g (14.5 psi g)
- IP 68 protection

GENERAL DESCRIPTION

The NIVOFLOAT NL-100 type floating level switch is suitable for level switching of various liquids, sewage in shafts, tanks, basins or cisterns. The double-chambered float is made of injection moulded tough polypropylene that ensures good waterproof protection. The contacting microswitch is incorporated in the float.

The cable of the NIVOFLOAT NL-100 type level switch is fed through the waterproof passage into the monolithic structure of the injection moulded plastic housing. The cable of the level switch is a flexible insulated copper cable with 3x 1 mm² (AWG 17) cross-section and PVC or Neopren outer insulation. Different control tasks such as liquid level monitoring and pump control can be realized successfully with NIVOFLOAT.

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 ±45° 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.

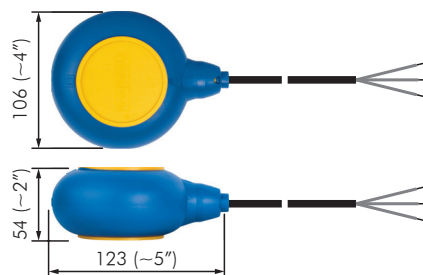
ORDER CODES

| NIVOFLOAT NL-1-1-1-1 | | | | | |
|----------------------|------|-----------------|------|---|------|
| Cable material | Code | Cable length | Code | Counter-weight* | Code |
| PVC | P | 5 m (16.5 feet) | 05 | Without | 1 |
| Neopren | N | 10 m (33 feet) | 10 | * NIVOFLOAT NMW-100 counterweight can be ordered separately | |
| | | 20 m (66 feet) | 20 | | |

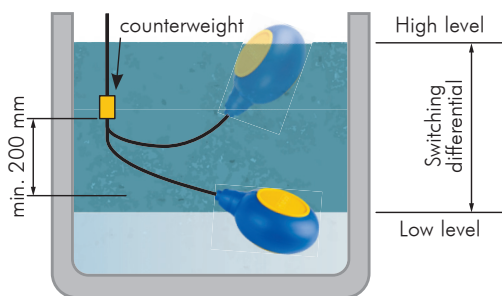
TECHNICAL DATA

| Type | NL-1-00-1 |
|-------------------------------|--|
| Switching angle | ± 45° |
| Medium temperature | 0 °C ... +50 °C (+32 °F ... +122 °F) |
| Medium pressure | 0.1 MPa (1 bar g - 14.5 psi g) |
| Material of the float | Polypropylene |
| Material of the counterweight | Polystyrene |
| Float volume | 430 cm ³ (26.25 in ³) |
| Rating of the microswitch | 10(A) A 250 V AC, AC1 |
| Electrical life-span | 10 ⁷ switches |
| Mechanical protection | IP 68 |
| Cable | Ø 9 mm (0.35 inch) / 3x 1 mm ² (AWG 17) |
| Cable length | 5 m, 10 m, 20 m (16.5 ft, 33 ft, 66 ft) |
| Mass | 250 g (0.55 lb), without cable |

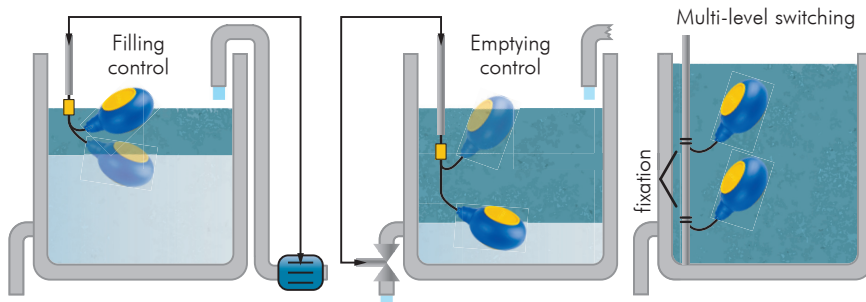
DIMENSIONS



INSTALLATION



APPLICATION EXAMPLES



WIRING

