

FLOAT SWITCH WITH BUILT-IN COUNTERWEIGHT NIVOSTOP SG2



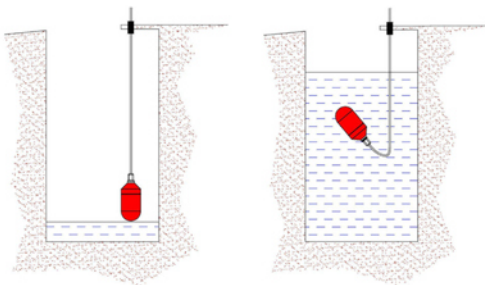
SAFETY INSTRUCTIONS

- Installation, commissioning and maintenance may only be carried out by qualified personnel
- Only connect the unit to the voltage specified in the technical data or on the type plate
- Disconnect the unit from the power supply during installation and maintenance works
- Only operate the unit under the conditions defined in the operating instructions



During installation, maintenance, slowly lower the NIVOSTOP by the cable into the container, do not throw it ! Otherwise the cable and the seal could be damaged.

DESCRIPTION



The NIVOSTOP SG2 with a built-in counterweight is mounted freely suspended to its cable. When the liquid level rises or falls, the orientation of the float changes. The mass of the counterweight prevents the float from surfacing. The float tilts upwards when the liquid level rises (see the drawing) and thereby actuates the microswitch. This does not require a fixed point neither an external counterweight on the cable for the axis of rotation. The built-in counterweight also makes the SG2 less sensitive to turbulences.

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BUILT-IN COUNTERWEIGHT
NIVOSTOP SG2

01-02-2022

M-520.03-EN-AA

LEV

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TECHNICAL FEATURES

Voltage 4 V ... 250 V

Note

For voltages >50 V, the container or the liquid must be earthed, or the float switch must be operated with safety extra-low voltage.

Switching capacity 1 mA ... 3 A

Caution

The float switch is designed for use with 1 mA ... 3 A loop at 4 ... 250 V; However, the switch may only be used in the same conditions and circuit during its entire period of use.

Switch type	Microswitch (gold contacts), changeover contact, potential-free
Temperature range	+1 ... +60 °C
Liquid density	$\rho \geq 1 \text{ kg/dm}^3$
Maximum immersion depth	30 m
Materials	Float and hexagonal seal connection: Polyethylene (PE-HD)
Cable	TPK (old version existed in PVC)
Protection	IP68
Chemical resistance of the cable	Water, solutions with low concentration of alkalis or acids (TPK cable)

Note

We cannot warrant the compatibility with all acids, alkalis, chemicals, pollutants: Please request us for more information.

EC Conformity: The instrument meets the legal requirements of the current European Directives

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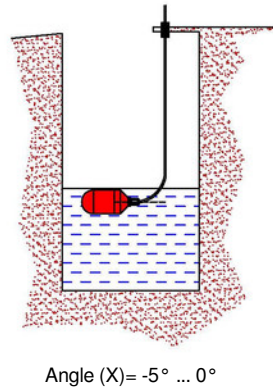
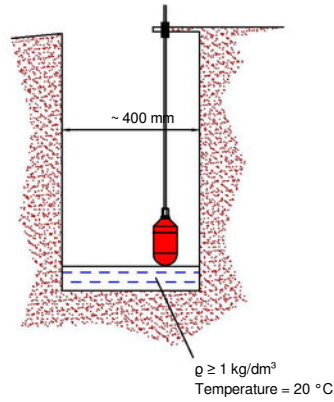
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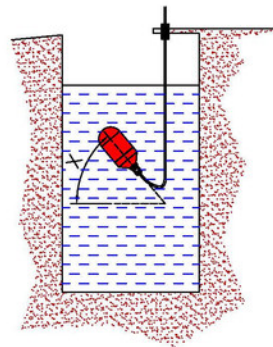
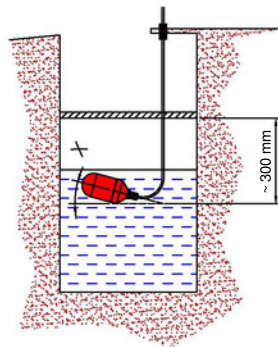
INSTALLATION AND SWITCHING ANGLE

Note

- Install only in containers where the wall or obstacles are at a distance greater than 40 cm.
- Maintain a distance of at least 30 cm between the horizontal float position and the upper tank wall / manhole cover.
- See the contact status of the switch according to the drawing below.
- Switching hysteresis is about 15°
- Temperature and density influence the tilting behaviour



Contact status



Contact switching



Wire colours

bl	blue
blk	black
br	brown

Accessory in option:

Ring cable fastener (code 520 917)



Assembly: Enroll the cable as shown on the picture and hook the ring on a supporting rod.

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