

# ATEX Float level switch NIVOSTOP PR2-EX

## SAFETY PRECAUTIONS

- Installation, initial start-up and maintenance may only be performed by trained personnel.
- The device may only be connected to supply power which complies with specifications included in technical data and on serial plate. The maximum electrical values of the float level switch must never be exceeded.
- The device must be disconnected from all sources of power during installation and maintenance work.
- The device may only be operated under the conditions specified in the operating instructions.
- The float may only be used in compatible liquids with materials in contact; No organic solvents allowed, neither hydrocarbons.
- If the cable is damaged, the float must be replaced.
- Changes to the device are not permitted and will invalidate the approval.
- The power source must protect the device from overcurrent.

**WARNING: In the event of a float cable failure, the lack of protection of the cable from damages will void the warranty. The float must be connected via an intrinsically safe safety barrier.**

## DESCRIPTION

Simple electrical equipment (EN 60079-11) for monitoring / controlling the level of a liquid in Ex zones 0, 1 or 2.

## TECHNICAL FEATURES

Power supply	Ui= 30V, li= 0.1A, Pi= 0.75W	Housing	PP antistatic (black colour)
Temperature	From -20 to +80 °C	Switching angle	20°
Cable	See label on packaging	Ex approval number	0425 ATEX 003942-02
Protection	IP68 (2 bar max.)	Ex marking	Ⓔ II 1G Ex ia IIC T6/T5 Ga
Density	0.95 ... 1.05 kg/dm <sup>3</sup>	Inductance Li, capacity Ci	insignificant small

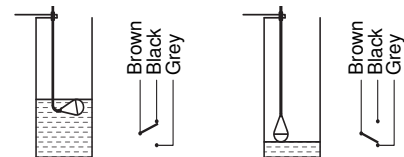
**EC Conformity: The instrument meets the legal requirements of the current European Directives.**

## MOUNTING

- Install a level controller for each switching point, which is set to the level to be controlled.
- Use brackets with cable glands and cable protector for fastening.
- Make sure that the float hangs freely and is not touching the ground.
- The float switch must be able to move freely.
- The float switch must not be used in a flowing liquid (only when the level of liquid is moving up and down and vice-versa).
- The cable of the float must be laid in such a way that it is protected from mechanical damage over its entire length.
- Make sure that no liquids or humidity can penetrate the cable ends.

## ELECTRICAL CONNECTION

Wire colour	Grey	Black	Brown	Green-Yellow (*)
Drain tank	-	√	√	Ground
Fill tank	√	-	√	Ground
High Level (Overfill alarm)	-	√	√	Ground
Low Level (dry run alarm)	√	-	√	Ground



(\*) To avoid electrostatic charging, the yellow-green wire must always be connected to the real earth potential.

## MAINTENANCE

Occasional cleaning may be necessary depending on how dirty the liquid is.

**ATTENTION: Avoid electrostatic charging; Clean only with a damp cloth.**

## MANUFACTURER

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**NIVOSTOP PR2-EX**

15-03-2024

M-521.04-EN-AHb

**LEV**

**521-04/1**