Operating Instructions

for

Float Switch

Model: NST

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2. Note

Please read these operating instructions before unpacking and putting the unit into operation. Follow the instructions precisely as described herein.
The instruction manuals on our website www.kobold.com are always for currently manufactured version of our products. Due to technical changes, the instruction manuals available online may not always correspond to the product version you have purchased. If you need an instruction manual that corresponds to the purchased product version, you can request it from us free of charge by email (info.de@kobold.com) in PDF format, specifying the relevant invoice number and serial number. If you wish, the operating instructions can also be sent to you by post in paper form against an applicable postage fee.

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

The devices are only to be used, maintained and serviced by persons familiar with these operating instructions and in accordance with local regulations applying to Health & Safety and prevention of accidents.

When used in machines, the measuring unit should be used only when the machines fulfil the EC-machine guidelines.

3. Instrument Inspection

Instruments are inspected before shipping and sent out in perfect condition.
Should damage to a device be visible, we recommend a thorough inspection of the delivery packaging. In case of damage, please inform your parcel service / forwarding agent immediately, since they are responsible for damages during transit.

Scope of delivery:
The standard delivery includes:
- Float Switchmodel: NST

4. Regulation Use

Any use of the Float Switch, model: NST, which exceeds the manufacturer's specification may invalidate its warranty. Therefore, any resulting damage is not the responsibility of the manufacturer. The user assumes all risk for such usage.

5. Operating Principle

The float comprises a hollow cylinder or a ball with integrated Reed contact or microswitch.
The switch is supplied as a changeover contact; it can be connected as a N/O contact or N/C contact as an option. The contact switches when the liquid passes above or below the horizontal float position.
The switch point is set either by the side installation of the switch at the desired height or by clamping the cable. In case of installation from the top, switchpoint will stabilize itself through the bading weights.

6. Mechanical Connection

Before installation:

- Remove the transport locks and make sure that there are no more packaging parts on the device.
- Check whether the maximum allowable operating pressures and temperatures of the device are not exceeded (see technical data).
- If possible, should already be in accordance with the mechanical installation, check whether the connection fitting is tight.

As contact protection, concerning protection against contact, we recommend our contact protection relay MSR.

Installation

- From the inside via G ½ threaded (only type NSTB)
- Externally by means of G 2 fitting

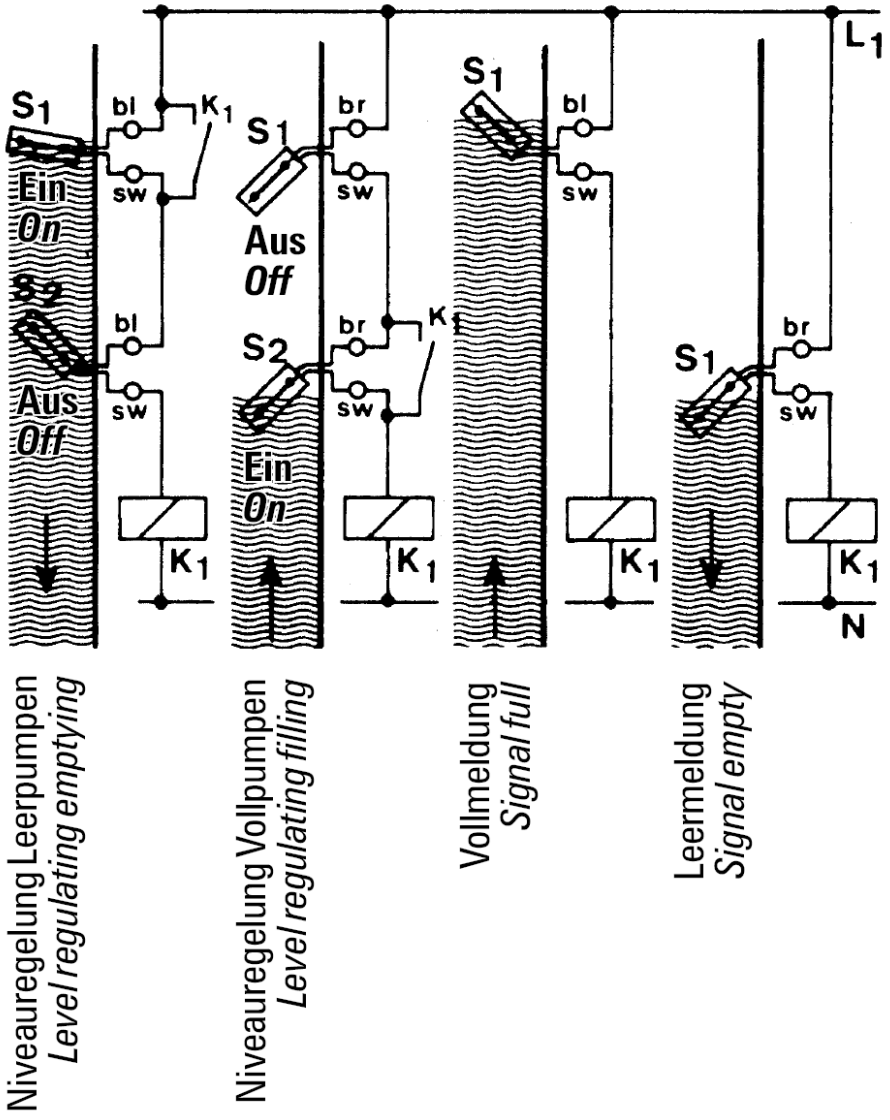
7. Electrical Connection

7.1 General

Attention! Make sure that the maximum voltage power values of the level switch are not exceeded.

With rising levels:	black/ blue:	NO
	black/ brown:	NC

7.2 Connection example



8. Technical Information

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

9. Order Codes

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

10. Dimensions

Operating instructions, data sheet, approvals and further information via the QR code on the device or via www.kobold.com

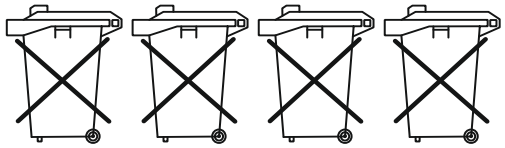
11. Disposal

Note!

- Avoid environmental damage caused by media-contaminated parts
- Dispose of the device and packaging in an environmentally friendly manner
- Comply with applicable national and international disposal regulations and environmental regulations.

Batteries

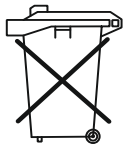
Batteries containing pollutants are marked with a sign consisting of a crossed-out garbage can and the chemical symbol (Cd, Hg, Li or Pb) of the heavy metal that is decisive for the classification as containing pollutants:



Cd[1] Hg[2] Pb[3] Li[4]

1. „Cd" stands for cadmium
2. „Hg" stands for mercury
3. „Pb" stands for lead
4. „Li" stands for lithium

Electrical and electronic equipment



12. EU Declaration of Conformance

We, KOBOLD Messring GmbH, Nordring 22-24, 65719 Hofheim, Germany, declare under our sole responsibility that the product

Float Switch Model: NST

to which this declaration relates is in conformity with the following EU directives stated below:

2014/30/EU	**EMC Directive**
2014/35/EU	**Low Voltage Directive**
2011/65/EU	**RoHS** (category 9)
2015/863/EU	Delegated Directive (RoHS III)

Also, the following standards are fulfilled:

EN 61010-1:2010 + A1:2019 + A1:2019/AC:2019 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements

EN 61326-1: 2013
Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements

Hofheim, 19 Sept. 2023

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