

# BISTABLE SWITCH BSM 502

## SAFETY PRECAUTIONS

- Installation, commissioning and maintenance may only be performed by qualified personnel!
- Only connect the device to the voltage specified in the technical data or on the type label!
- Disconnect the device from the power supply during installation/maintenance work!
- Only operate the device under the conditions defined in the operating instructions!
- Do not open the device!

## DESCRIPTION

A magnetic float or counterweight actuates a microswitch in the unit without contact. When the float or counterweight passes the bistable switch, the changeover contact switches its position and remains in this position until it is passed again. The switch works with all floats and counterweights available from us.

## MOUNTING

- The bistable switch BSM 502 is attached to the guide tube of a level indicator by a clamp (stainless steel or plastic)
- The valve connector must always point downwards
- Mount the valve connector and ensure its tightness by hand-tightening (approx. 4Nm) the cable gland.

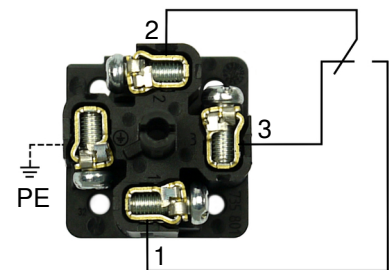
Contact position: (terminal 2 = root)  
 when float in lower position: 2 - 3 closed / 2 - 1 open  
 when passed over: 2 - 1 closed / 2 - 3 open

### Annotation

Set the magnetic switch in the correct position using a counterweight or float before starting it up.

### Notes:

- Use only BAMO floats or counterweights.  
Only use the float with the "Top" mark pointing upwards.
- Do not mount or store near strong magnetic fields or ferromagnetic parts (steel beams, struts, container parts, screws, etc.).



**Connection:**  
Contact position in the underrun state

## TECHNICAL DATA

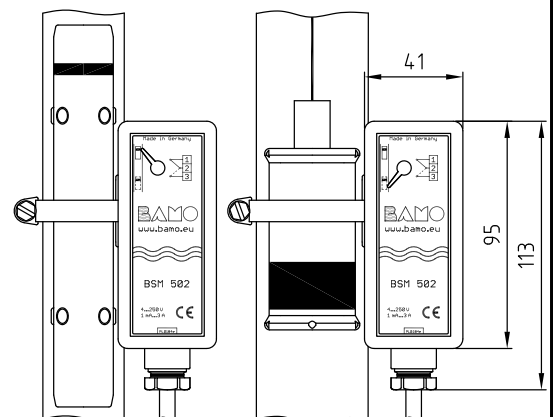
Nominal voltage	4V...250V AC, 4V...30V DC
Nominal current	1mA...3A (AC or DC)
Switching principle	Magnetically actuated microswitch with changeover contact
Minimum distance	25mm between two switching points Mount the switches offset by 90°
Wire cross section	1.5mm <sup>2</sup>
Electrical connection	3-pin valve connector according to DIN EN 175301-803-A Additional protective earth connection (PE), observe low-voltage guidelines
Ambient temperature	-20°C...+90°C
Material	Polycarbonate (PC)
Mounting	Stainless steel or plastic clamp
Protection class	IP65 according to EN 60 529

### Float

E.g.  
PVC pipe Ø32x2.4  
or  
Glass tube Ø34.5x2.75

### Counterweight

E.g.  
PVC pipe Ø63x3



### Please note!

The bistable switch is designed for 1mA to 3A application at 4 to 250V. However, the switch may only be operated in one and the same type of circuit during its entire period of use!

**For use in hazardous areas, please contact us.**

**CE marking: The device complies with the legal requirements of the applicable EU directives**

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**BISTABLE SWITCH  
BSM 502**

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**LEV**

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