



Fill level measurement



Conductive rod probe:
SBS

With fixed cable and potted probe head, up to 5 rods;
Fluid temperature: $-20^{\circ}\text{C} \dots +100^{\circ}\text{C}$;
Pressure: 10 bar

Description

The rod probe SBS is used in conjunction with the corresponding evaluation devices (for example, SRA-100-U0) for level detection and level control in conductive liquids.

Depending on the number of bars and evaluation devices used, different measuring tasks such as Overflow, dry run protection, on-off control, moisture detection, etc. can be realized.

Depending on the selected version can with inclusion of the vessel wall as the ground can be realized up to 5 switching points. The ground terminal erfolgt either directly to the conductive container or a probe rod.

When Type SBS the connecting cable is connected and sealed in the probe head. Through this encapsulation, the probe is fully submersible and outdoor use of the container.



Application

- Level detection in conductive liquids
- Up to five limit levels simultaneously detectable
- As leakage or overflow protection in containers
- For minimum / maximum / resp. multi-point-detection in containers
- As pump protection, resp. dry run protection in pipelines
- For two-point control of pumps
- For conductivities from $1\ \mu\text{S}/\text{cm}$
- For process temperatures from -20°C up to $+100^{\circ}\text{C}$
- For process pressures from $-1\ \text{bar}$ up to $+10\ \text{bar}$
- Material also for corrosive and aggressive products
- Integrated line break monitoring

Your benefits

- Fixed connecting cable and firmly moulded probe head - thus floodable
- Suitable for **aggressive media** due to the use of special material as e.g. Hastelloy; PTFE; ETFE resp. E-CTFE etc.
- Simple switching point adjustment by probe rods that can be shortened

Technical data

Technische Daten	
Elektrode rod (medium contact):	Stahl 1.4404 (AISI316L) resp. 1.4571 (AISI316Ti) / Hastelloy B bzw. C22 / Titan
Elektrode trod isolation (medium contact):	PA / ETFE resp. E-CTFE
Connection housing:	POM / PP / PTFE
Cable screw:	HOusing PA / Gaskets CR, NBR
Gaskets:	Medium contact: Elektrode isolation PA: NBR / Elektrode isolation ETFE resp. E-CTFE: FPM; others: NBR, FPM
Process temperature:	Max $-20^{\circ}\text{C} \dots +100^{\circ}\text{C}$
Process pressure max:	10 bar
Protection:	IP65 EN/IEC 60529

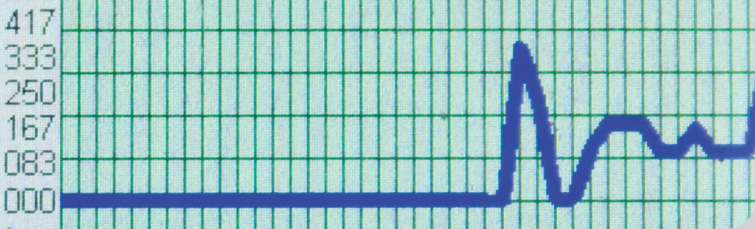
Specials

up to
10
bar
pressure

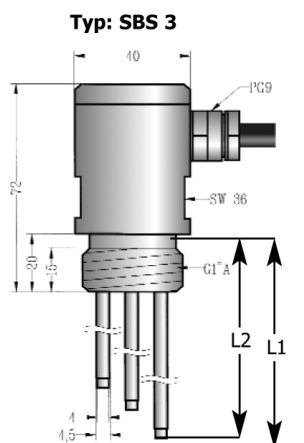
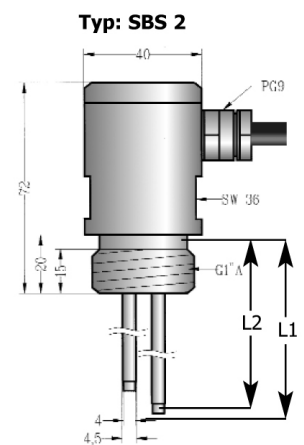
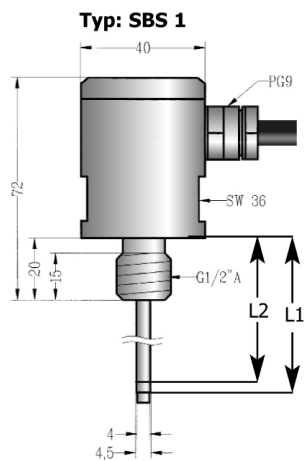
corrosion
resistant

up to
5
measuring points

process
temperature
150°C



Bestellschlüssel



Electrode rods

- 1 One-rod-probe
- 2 Two-rod-probe
- 3 Three-rod-probe
- 4 Four-rod-probe
- 5 Five-rod-probe

Connection- plastic

- G12 G1/2" (only for 1-rod)
 G10 G1" (only up to 3-rod)
 G15 G1 1/2" (for all probes possible)

Material probe rod

(price per 100mm)

- A4 CrNi-steel, rod diameter 4mm
 A8 CrNi-steel, rod diameter 8mm
 C Hastelloy® B 4 mm
 D Hastelloy C22, rod diameter 4mm
 T4 Titan not for Ex-version, 4 mm
 T8 Titan not for Ex-version, 8 mm
 E 1.4404 steel with 50 mm tantalum tips
 Y Others

Material Connection housing sealed

- D POM – polyoxymethylene Delrin®,
 Ø 40 mm for G1/2" / G1" resp. Ø 80 mm for G1 1/2" / G2"
 E POM – polyoxymethylene Delrin®, Ø 60 mm for G1/2" / G1"
 P PP – polypropylene, Ø 40 mm for G 1/2" / G 1"
 M PP – polypropylene, Ø 80 mm for process connection G1 1/2" / G2"
 T PTFE – Polytetrafluoroethylene Teflon®, Ø 40 mm for G1/2" / G1"
 L PTFE – Polytetrafluoroethylene Teflon®, Ø 80 mm for G1 1/2" / G2"

Material probe insulation

(price per 100mm)

- R Polyamid (standard) not for material process connection T / L – PTFE
 H4 ETFE resp. E-CTFE, rod diameter 4mm
 H8 ETFE resp. E-CTFE, rod diameter 8mm
 *at length over 1 m

Circuit monitoring

- A Without circuit monitoring
 B Diode module LBM only for terminal enclosure Ø 80mm

Diameter probe rod

- Ø 4 mm
 W 8 mm

Length L1 probe rod in mm - up to max. 2500 mm

Length L2 insulation mm

Connection cable in m
 (price per 1000 mm)

Order code

SBS

mm mm m

SBS probes are only available in 500 mm increments!
 Probe rods should be shortened by oneself!