



Float Switch SV-10

Float switch in stainless steel 1.4571 with connecting box for monitoring the level of liquid media



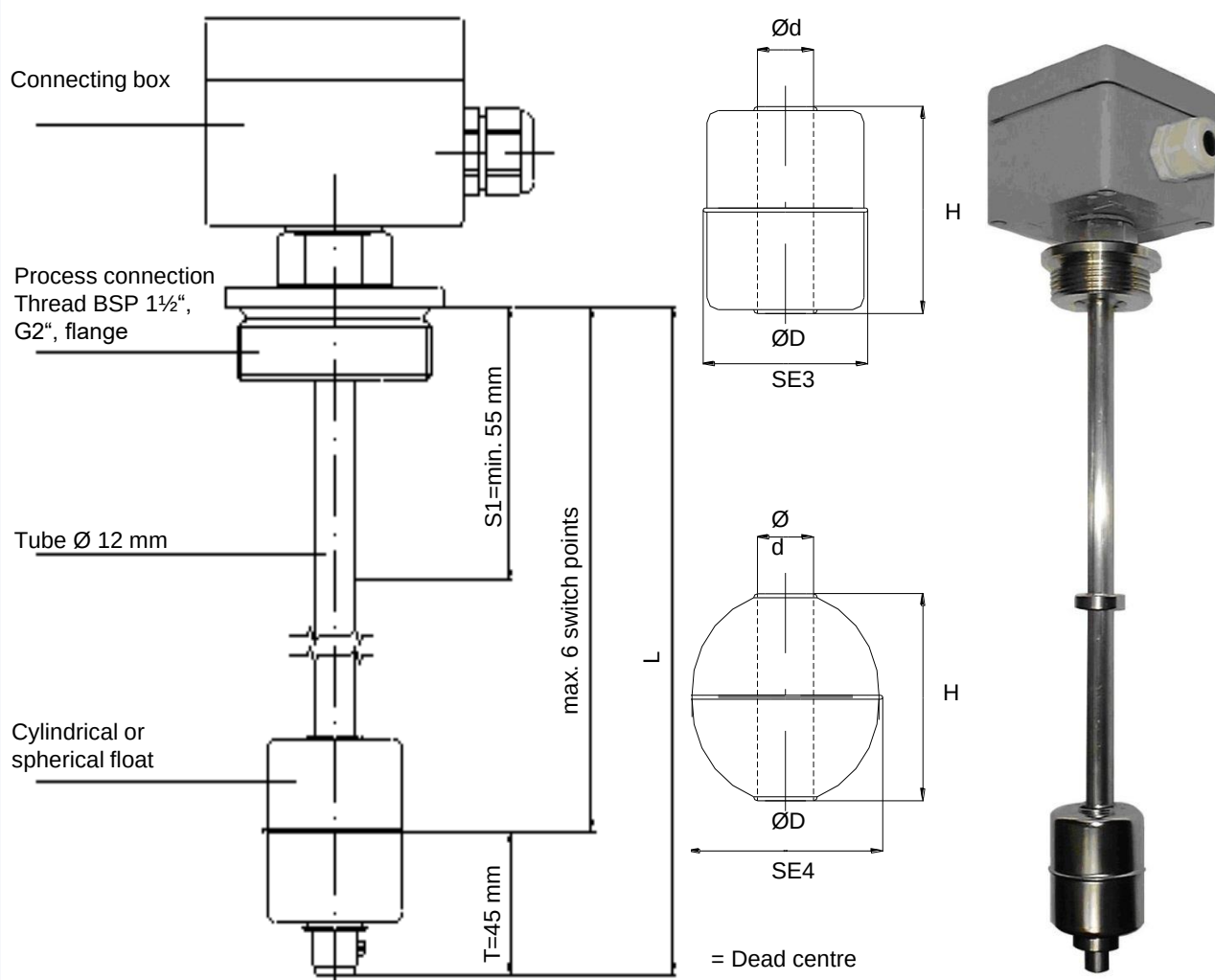
- Simple to install
- Practical and inexpensive solution
- Maintenance free
- Control elements: reed contacts
- Electrical connection: Connecting box, coupler plug or cable
- IP66 protection
- Temperature range: -30°C up to 150°C
- Standardized and customer-specific designs



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Dimensions



Float type	Dimensions (mm)			max. Operating pressure (MPa)	max. operating Temperature (°C)	Medium density (kg/m³)	Material
	Ø D	Ø d	H				
SE3 Cylindrical float	44	15	52	1,6	150	≥ 750	1.4571
SE4 Spherical float	52	15	52	4,0	150	≥ 750	1.4571



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Areas of application

Float switches are based on the float principle with small reed contacts for every level to be monitored. They are suitable for level controlling and monitoring.

Float switches are suitable even for rough environments and are applicable in the following industries::

- plant engineering
- machine construction
- chemical industry
- Biochemical industry
- Petrochemical industry
- liquid natural gas
- off-shore
- power plants
- ship-building
- food industry
- pharma-ceuticals etc.

Functional description

The magnetic field of a permanent magnet built into the float operates the reed contacts installed in the tube. The functions of the reed contacts are closer, opener or change-over switch.

Technical data

Max. Power	Opener / Closer:
	230 V AC; 100 VA; 1 A AC
	230 V DC; 50 W; 0,5 A DC
	Change-over switch:
	230 V AC; 40 VA; 1 A AC
	230 V DC; 20 W; 0,5 A DC
Switch function	opener / closer / change-over switch With a rising liquid level
Installation position	vertical, $\pm 30^\circ$
Medium density	$\geq 750 \text{ kg/m}^3$
Temperature	-30°C up to $+150^\circ\text{C}$
Connecting box	Aluminium 75 x 80 x 57 mm
	Aluminium 58 x 64 x 36 mm
	Polycarbonate 80 x 82 x 55 mm
Protection	IP 66
max. pressure	4.0 MPa
Tube length L	Standard: up to 6000 mm, >6000 mm on request
Process connection	Thread BSP 1½", BSP 2", Flange DN50 PN16; Other types on request



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Product overview / Order table

SV-10

Connecting box

- A Aluminium case 75 x 80 x 57 mm, IP66
- B Aluminium case 58 x 64 x 36 mm, IP66
- C Polycarbonate case 80 x 82 x 55 mm, IP66

Process connections (installation: vertical, $\pm 30^\circ$)

- A Fixing screw thread BSP $1\frac{1}{2}"$, 1.4571
- B Fixing screw thread BSP 2", 1.4571
- C Flange DIN 2527, Form B, DN50 PN16, 1.4571
- X Other types on request

Tube length L (see dimensioned diagram), Tube in 1.4571

Tube length from sealing face of process connection
Tube length $L \leq 6000$ mm; $L > 6000$ mm on request
Dimensions in mm

Float types

- Z SE3 (cylindrical float $\varnothing 44$ in 1.4571)
- K SE4 (spherical float $\varnothing 52$ in 1.4571)
- X Other types on request

Temperature range

- N -30° up to $+80^\circ\text{C}$
- H -30° up to $+150^\circ\text{C}$

Switch point number

(see dimensioned diagram)

Switch function (with a rising liquid level)

- O Opener
- S Closer
- U Change-over switch

Switch position

Switch position from sealing face of Process connection in mm

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S1		
S2		

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