Float Switch for Industrial Applications SV 30

Float switch made of PP with connection housing

- Easy construction
- Robust design
- Maintenance-free
- Reed switch as a switching element
- Optional customized versions

D-EN-SV30-20190424

Fon 0 67 32 - 91 91 20 Fax 0 67 32 - 96 24 42 info@schmidt-messtechnik.de

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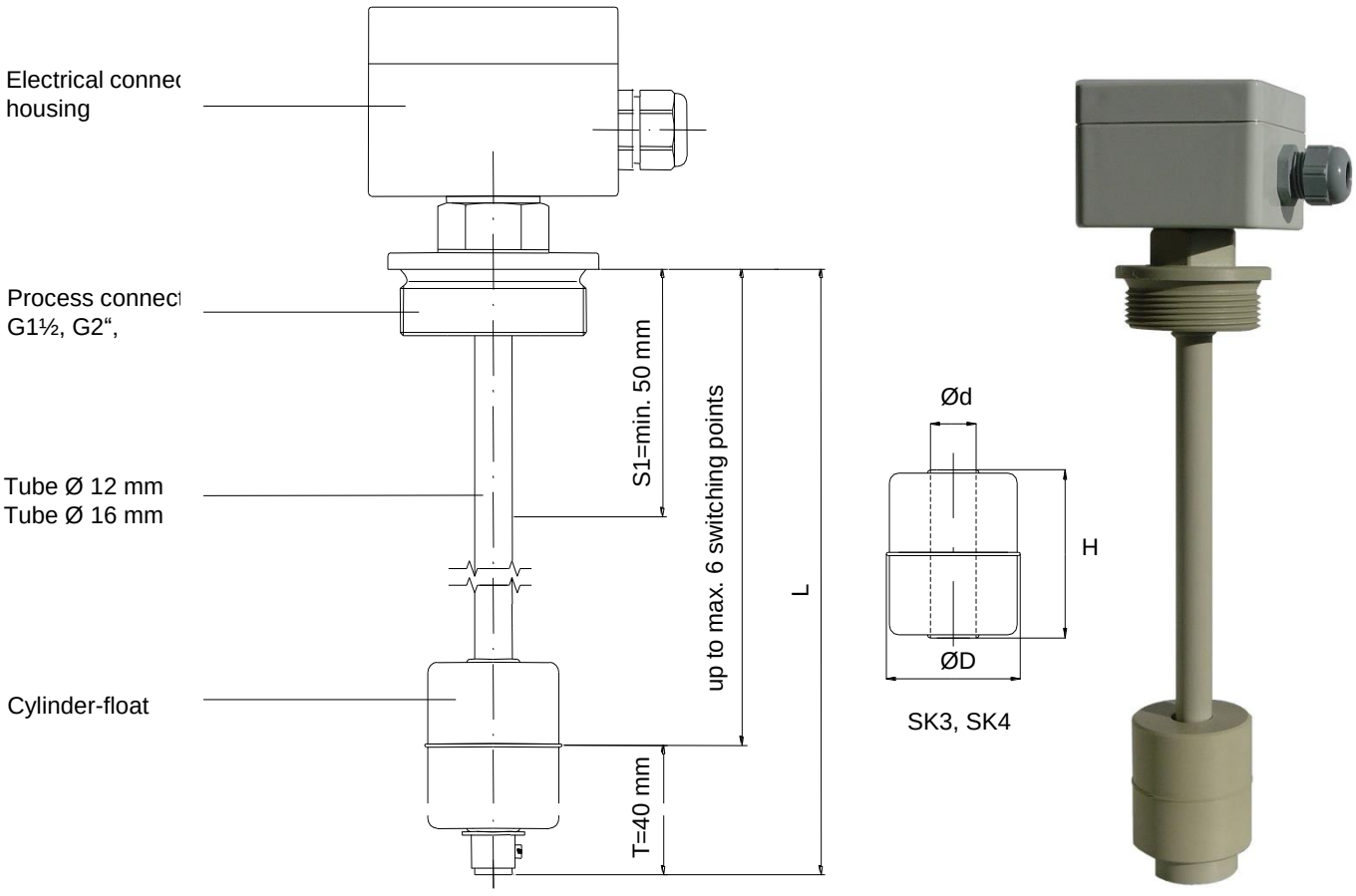
Dimensions



T = Non-usable range for switching points

Float	Dimensions (mm)			Operating pressure max. (MPa)	Operating temperature max. (°C)	Density (kg/m³)	Material
	Ø D	Ø d	H				
SE3 cylinder	44	14	45	0.3	80	≥ 600	PP
SE4 sphere	55	18	55	0.3	80	≥ 600	PP

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Application
The float switch SV 30 is used for reliable and accurate level monitoring and level indication of liquids. The SV 30 float switch has been developed for measuring the levels of aggressive and corrosive media, such as acids and bases. Due to its robust and maintenance-free design, SV 30 can i.a. used in the following industries:

- Plant construction
- Off-shore
- Mechanical engineering
- Energy plants
- Chemistry
- Power plants
- Biochemistry
- Shipbuilding
- Petrochemicals
- Food
- Natural gas industry
- Pharmacy etc.

Measuring principle
A permanent magnet built into the float triggers, with its magnetic field, the potential-free reed contacts built into the guide tube. The triggering of the reed contacts by the permanent magnet is contact-free and thus free from wear. Depending on customer wishes, the switching functions of normally open, normally closed or change-over can be realised for the defined liquid level.

Technical data	
Switching power	**Normally closed (NCC) / normally open contact (NOC):** 230 V AC; 100 VA; 1 A AC 230 V DC; 50 W; 0.5 A DC
	Change over contact (SPDT): 230 V AC; 40 VA; 1 A AC 230 V DC; 20 W; 0.5 A DC
Switching function	NCC, NOC, SPDT on rising level
Mounting position	Vertical, ± 30°
Medium density	≥ 650 kg/m³
Temperature	-10°C up to +80°C
Protection	IP 66
Operating pressure max.	0.3 MPa
Length of the tube L	Standard: up to 1500 mm,
Process connection	Standard: G1½“, G2“, ; other versions on request
Material	PP, other materials such as e.g. PVC, PVDF etc. on request

Important instructions!
Technical changes and errors reserved.
Pictures can be similar.
The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.

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Ordering information

SV-30

Electrical connection
A Aluminum case 75x80x57 mm, IP66
B Aluminum case 58x64x36 mm, IP66
C Polycarbonate case 80x82x55 mm, IP66
X Other versions on request

Process connection (installation vertical, ± 30°)
A Fastening screw thread G $1^1/_2$"
B Fastening screw thread G 2“
X Other versions on request

Tube length L
Tube length from sealing surface process connection
Length of tube L ≤ 500 mm: Tube ø 12 mm; L > 1500 mm: ø 16 mm
Indication in mm

Float types
A SK3 (cylinder ∅44)
B SK4 (sphere ∅52)
X other versions on request

Number of switching points
(see Dimensions)

SV-30					

Switching function
on rising level
O normally closed (NCC)
S normally open (NOC)
U Change over

Position of switching point from sealing surface process connection
Indication in mm

S1		
S2		

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