



## **Float Switch for Industrial Applications SV 31**

Float switch made of PP, with cable outlet



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

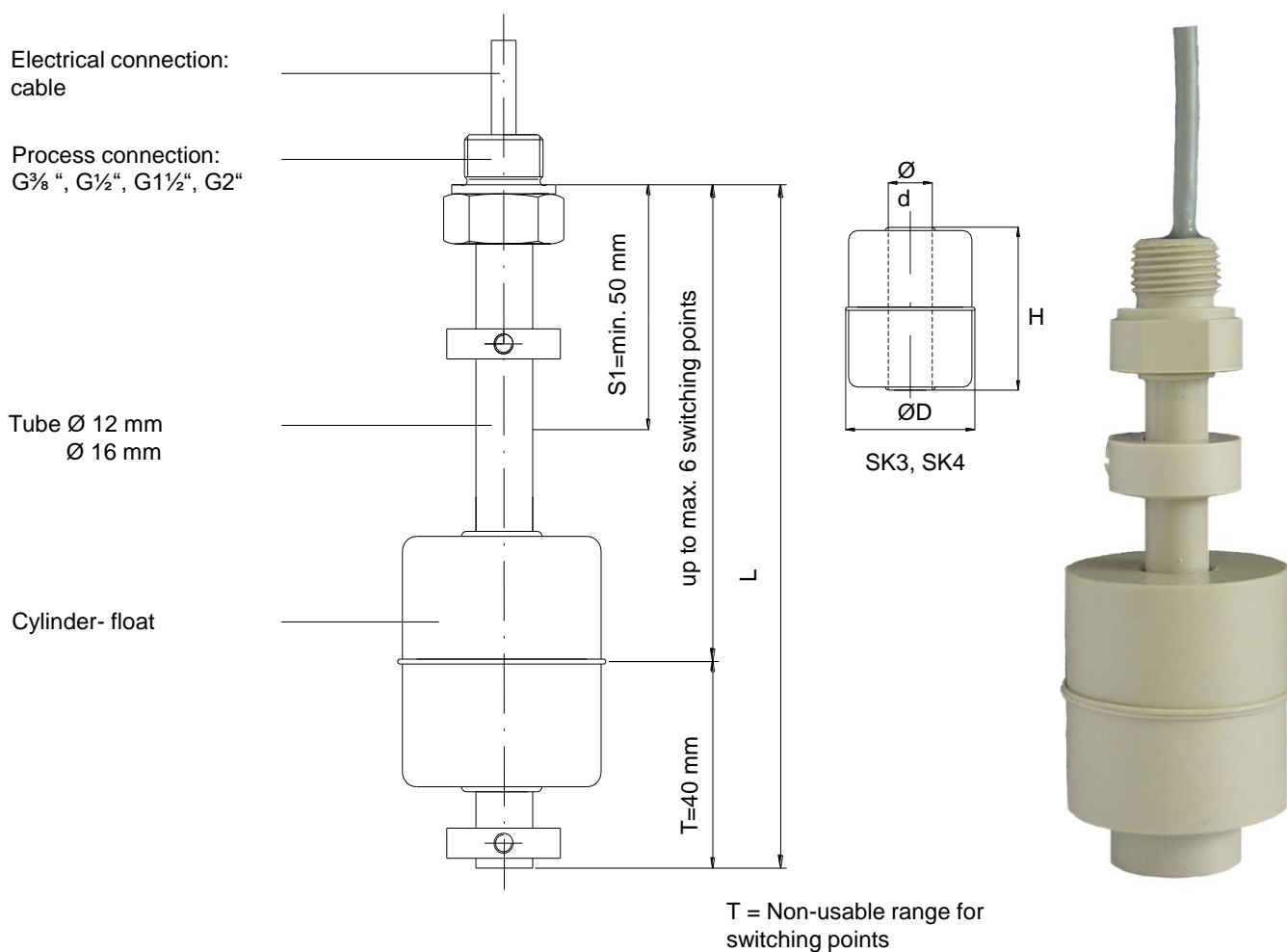
D-EN-SV31-20190424



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### Dimensions



Float	Dimensions (mm)			Operating pressure max. (MPa)	Operating temperature max. (°C)	Density (kg/m <sup>3</sup> )	Material
	Ø D	Ø d	H				
SK3 cylinder	44	14	45	0.3	150	≥ 600	PP
SK4 sphere	55	18	55	0.3	150	≥ 600	PP

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### Application

The float switch SV 11 is used for reliable and accurate level monitoring and level indication of liquids. The SV 31 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 31 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 realized for the defined liquid level.

### Technical data

<b>Switching power</b>	<b>Normally closed (NCC) / normally open contact (NOC):</b> 230 V AC; 100 VA; 1 A AC 230 V DC; 50 W; 0.5 A DC
	<b>Change over contact (SPDT):</b> 230 V AC; 40 VA; 1 A AC 230 V DC; 20 W; 0.5 A DC
<b>Switching function</b>	NCC, NOC, SPDT on rising level
<b>Mounting position</b>	Vertical, $\pm 30^\circ$
<b>Medium density</b>	$\geq 600 \text{ kg/m}^3$
<b>Temperature</b>	-10°C up to +80°C
<b>Operating pressure max.</b>	0.3 MPa
<b>Length of the tube L</b>	Standard: up to 1500 mm
<b>Process connection</b>	Standard: G $\frac{3}{8}$ “, G $\frac{1}{2}$ “, G1 $\frac{1}{2}$ “, G2” other versions on request
<b>Material</b>	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](http://www.schmidt-messtechnik.com).



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### Ordering information

#### SV-31

#### Process connections (install vertically, $\pm 30^\circ$ )

- A Process connection G  $\frac{3}{8}$ "
- B Process connection G  $\frac{1}{2}$ "
- C Process connection G  $1\frac{1}{2}$ "
- D Process connection G 2"
- X Other versions on request

#### Tube length L, Tube material PP

Tube length from sealing surface process connection

Length of tube  $L \leq 500$  mm: tube  $\varnothing$  12 mm;  $L \leq 1500$  mm: tube  $\varnothing$  16 mm

Indication in mm

#### Float types

- A SK3 (cylinder  $\varnothing 44$ )
- B SE4 (sphere  $\varnothing 55$ )
- X other versions on request

#### Number of switching points

(see Dimensions)

#### Length of cable

Indication in m

SV-31					—	
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#### 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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