



Suspended Float Switch SV 80

For water and waste water

- Adjustable switch position through screw-adjustable float
- Switch rod actuator, potential-free reed switch
- Switch contact freely definable as normally closed, normally open or change-over contact
- Also reliable in strongly contaminated media



D-EN-SV80-20190425



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Description

The model SV 80 suspended float switch is used for monitoring strongly contaminated media, e.g. in wastewater lifting stations and pumping stations. The adjustable float rises and falls with the liquid level and moves the float rod depending on the level. When the float rod reaches the end position in the case, the magnet at the end of the float rod actuates the reed switch potted inside.

The triggering of the reed contacts by the permanent magnet is contact-free and thus free from wear. The float can be mounted and adjusted via a screw connection. This enables easy installation and fine adjustment of the desired switch point over a length of ~ 50 mm (~ 2.0 in).

Due to the special mechanical design of the float system, the model SV 80 float switch is also suitable for adhesive media. Due to the large-dimension float body, adhesions will not affect the function of the float switch. During maintenance, cleaning as required can prevent a too strong ballasting of the float by deposits.

Special features

- Adjustable switch position through screw-adjustable float
- Switch rod actuator, potential-free reed switch
- Switch contact freely definable as normally closed, normally open or change-over contact
- Also reliable in strongly contaminated media

Application

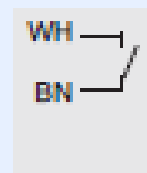
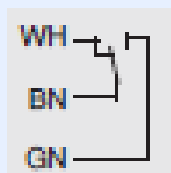
- Wastewater lifting stations
- Pumping stations
- Settling pits
- Particle-laden media

Connection diagram

Cable outlet (S1, switch point 1)

Change over contact

Normally open / normally closed



Legend

WH White
BN Brown
GN Green

Electrical connections

	Ingress protection per IEC/EN 60529	Protection class	Material	Cable length
Cable outlet	IP 66	II	PVC	2 m (6.5 ft)
Cable outlet	IP 66	II	PUR	5 m (16.4 ft) Other length on request

Electrical safety

Insulation voltage	DC 2,120 V
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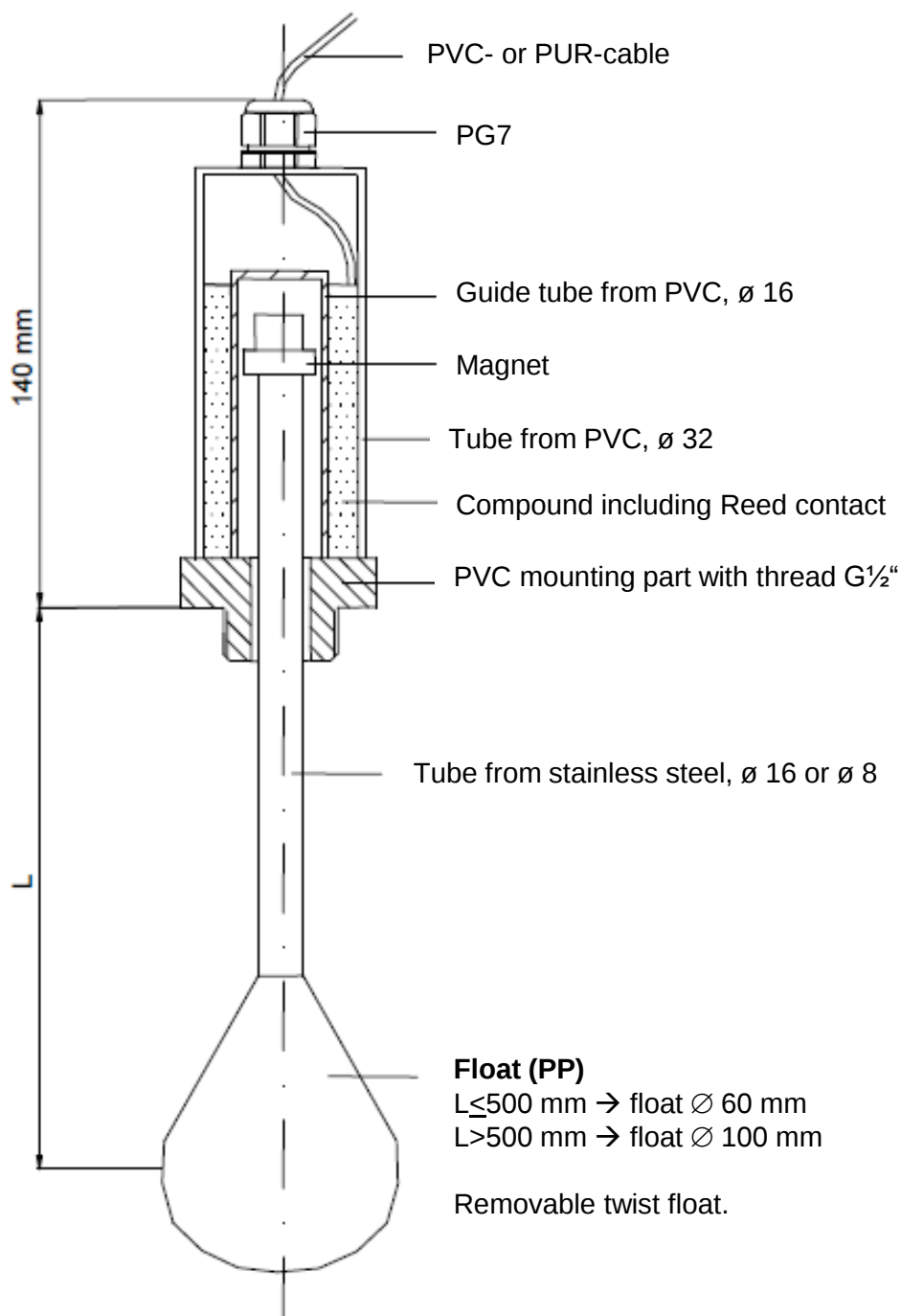
Technical data				
Measuring principle	Potential-free switching reed contact is triggered by a magnet at the end of the switch rod.			
Measuring ranges	Sensor length: Freely selectable from 150 ... 1,000 mm (6 ... 39.2 in)			
Switching output	1 switching output, alternatively normally open (NO), normally closed (NC) or change-over (SPDT) contact - on rising level 2 switching outputs on request			
Switch position	see “Dimensions in mm (in)” L = 10 mm (0.4 in)			
Switching power	Normally open, normally closed:	AC 100 V; 10 VA; 0.5 A DC 100 V; 10 W; 0.5 A		
	Change-over contact:	AC 100 V; 5 VA; 0.25 A DC 100 V; 5 W; 0.25 A		
Accuracy	±3 mm (~0.12 in) switch point accuracy incl. hysteresis, non-repeatability			
Mounting position	Vertical			
Process connection	G½”			
Float model • up to 499 mm (19.6 in) sensor length • from 500 mm (19.7 in) sensor length	Outer Ø D 60 mm (2.4 in) 100 mm (3.9 in)	Height 90 mm (3.5 in) 170 mm (6.7 in)	Density ≥ 1,000 kg/m³ (62.4 lbs/ft³) ≥ 1,000 kg/m³ (62.4 lbs/ft³)	Material PP PP
Max. pressure strength	Ambient pressure			
Material • Wetted parts • Non-wetted parts	Probe tube: Stainless steel 316Ti Float: PP Process connection: PVC Case: PVC Electrical connection: See table below			
Permissible temperatures • Medium • Ambient • Storage	-40 ... +60 °C (-14 ... +140 °F) -40 ... +60 °C (-14 ... +140 °F) -40 ... +60 °C (-14 ... +140 °F)			

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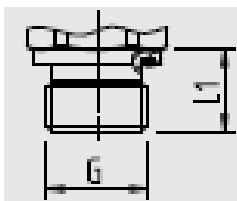


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Process connection

Installation from outside



$G = G\frac{1}{2}"$ $L_1 = 12 \text{ mm}$

Approvals

EU declaration of conformity

- Low voltage directive
- RoHS directive

China RoHS directive

Ordering information

Model / Switching function / Electrical connection / Cable length / Sensor length

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.