

SSP... floating switches

These floating switches are designed for mounting **from the side or from the top**.

To ensure a correct switching the cable must be fixed at the required height using a stuffing gland, for example, in the case of mounting from the side or using a fixing weight, for example, in case of mounting from the top.

These units are not suitable for use in turbulent liquids (e.g. in stirrer tanks).

Please note the following:

The floating switch SSP 1/K/... or SSP/S1/K/... is equipped with a gold-plated crosspoint contact. One of the characteristic properties of gold-plated contacts is that they can reliably switch the smallest voltages and smallest currents, even after extremely long standstill times.

These gold-plated contacts have the following unfavourable properties:

- The gold layer may become burnt off even after just one-off overload. If this happens, the contact loses its ability to reliably switch the smallest voltages and smallest currents.
- Extremely frequent switching actions can also impair or destroy the gold layer, leading to the same effects as outlined above.

If you need to choose between an SSP 1/K/... or SSP/S1/K/... with gold-plated contact and an SSP 3/K/... or SSP/S3/K/... with AgNi contact for an AC/DC 24 V application, your choice should be based on the following criteria:

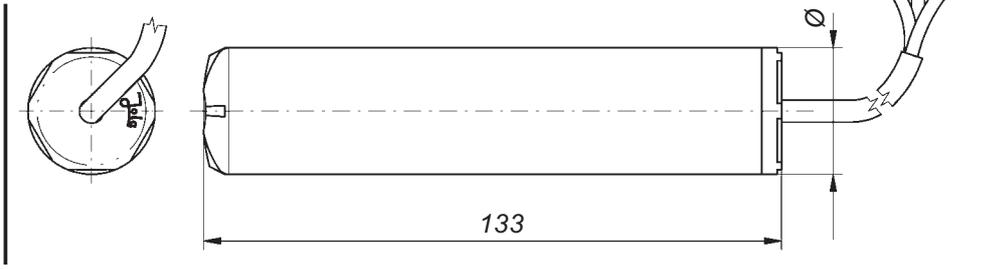
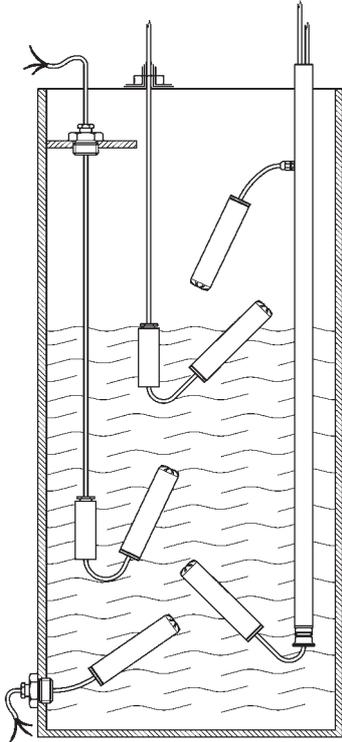
- Floating switch is seldom in operation but should continue to work reliably even after years: SSP 1/K/... or SSP/S1/K/... .
- Floating switch is frequently in operation, is permanently in action: SSP 3/K/... or SSP/S3/K/... .

Technical data	SSP 3/K/... / SSP/S3/K/...	SSP 1/K/... / SSP/S1/K/...
Application	standard application	light current application
Switching voltage	between AC/DC 24 V and AC/DC 250 V	between AC/DC 1 V and AC/DC 42 V
Switching current	between AC 20 mA and AC 3 (1) A or between DC 20 mA and DC 100 mA	between AC 0.1 mA and AC 100 (50) mA or between DC 0.1 mA and DC 10 mA
Switching capacity	max. 350 VA	max. 4 VA
Operating principle	ball-operated microswitch, potential-free changeover contact	
Options for safety appl.	—	see page 1-1-27
Recommended appl.	—	via Jola protection relay KR ..
Float material	PP	
Seal material	FPM; on request: EPDM	
Float protection class	IP 68	
Temperature appl. range	see chart on page 1-1-13	
Max. immersion depth of the float	max. 10 metres head of water at + 20°C	
Connecting cables	see chart on page 1-1-13	
Application range of the connecting cables	<ul style="list-style-type: none"> • black PVC cable: water, used water, slightly aggressive liquids, oils without aromatic additives, fuel oil and diesel fuel with a specific gravity $\geq 0.82 \text{ g/cm}^3$ <ul style="list-style-type: none"> • grey A05RN-F cable: water, used water, slightly aggressive liquids with a specific gravity $\geq 0.82 \text{ g/cm}^3$ • red-brown silicone cable: water and certain other liquids with a specific gravity $\geq 0.82 \text{ g/cm}^3$, with low mechanical strength • green halogen-free PUR cable: water, used water, slightly aggressive liquids and some oils without aromatic additives with a specific gravity $\geq 0.82 \text{ g/cm}^3$ • black CM cable: water and certain acids and lyes with a specific gravity $\geq 1 \text{ g/cm}^3$ <p>1 metre, other cable lengths on request.</p> <p>When ordering, please always state the desired cable type and cable length.</p>	
Connecting cable length	1 metre, other cable lengths on request.	
Optional extras	stuffing glands and fixing weights made of brass, stainless steel 316 Ti or PP	



SSP 3/K/PVC

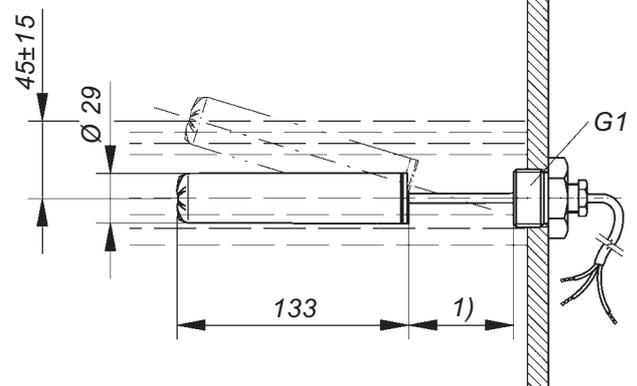
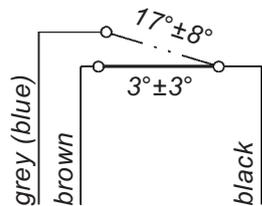
Application examples



Switching action in liquids with a specific gravity of 1 g/cm³

1) approx. 60 mm, but approx. 100 mm for the CM cable

Contact switches over at



Optional extras:

Floating switch mounting only possible **from the inside:**

- stuffing gland G^{3/8}, brass
- stuffing gland G^{1/2}, brass
- stuffing gland G^{1/2}, stainless steel 316 Ti
- stuffing gland G^{1/2}, PP

Floating switch mounting possible **from the outside:**

- stuffing gland G1, brass
- stuffing gland G1, stainless steel 316 Ti
- stuffing gland G1, PP

Stuffing gland G1



stainless steel

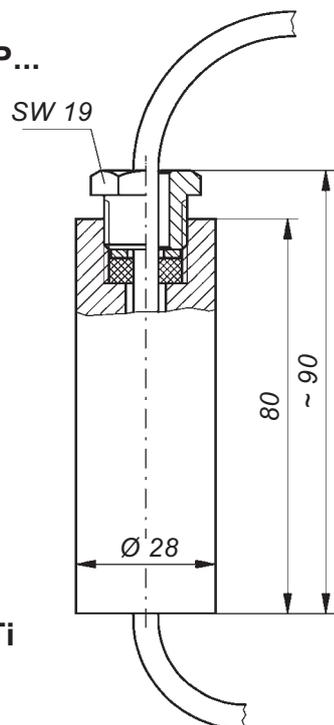
PP

Optional extras:

fixing weight for SSP...



stainless steel 316 Ti or brass



PP

