## 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.

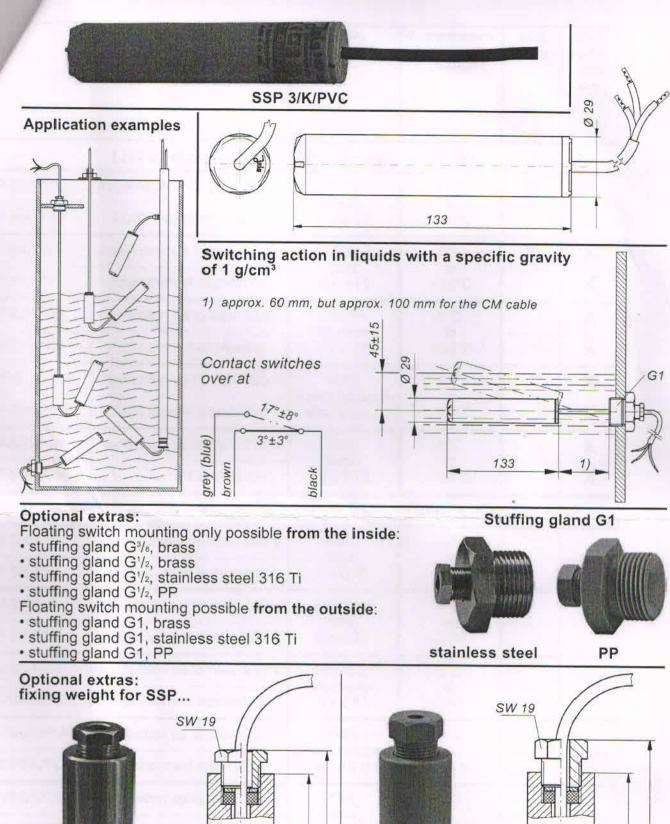
These gold-plated contacts have the following unfavourable properties:

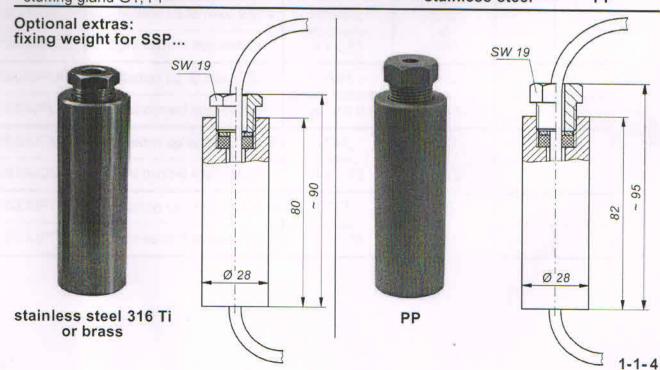
- The gold layer may become burnt off even after just one-off overload. If this happens, the contact loses its ability to reliably switch the smallest voltages and smallest currents.
- Extremely frequent switching actions can also impair or destroy the gold layer, leading to the same effects as outlined 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 Switching voltage Switching current	standard application between AC/DC 24 V and AC/DC 250 V between AC 20 mA and AC 3 (1) A		light current application between AC/DC 1 V and AC/DC 42 V between AC 0.1 mA and AC 100 (50) mA		
Switching capacity	DC 20 mA ar	etween nd DC 100 mA 350 VA	or between DC 0.1 mA and DC 10 mA max. 4 VA		
Operating principle Options for safety appl. Recommended appl.	ball-operated		ential-free changeover contact see page 1-1-27 via Jola protection relay KR		
Float material Seal material Float protection class Temperature appl. range Max. immersion depth	FPM; on request: EPDM IP 68 see chart on page 1-1-13				
of the float Connecting cables	max. 10 metres head of water at + 20°C see chart on page 1-1-13				
Application range of the connecting cables	<ul> <li>black PVC cable: water, used water, slightly aggressive liquids, oils without aromatic additives, fuel oil and diesel fuel with a specific gravity ≥ 0.82 g/cm³         <ul> <li>grey A05RN-F cable:</li> </ul> </li> <li>water, used water, slightly aggressive liquids with a specific gravity ≥ 0.82 g/cm³         <ul> <li>red-brown silicone cable:</li> </ul> </li> <li>water and certain other liquids with a specific gravity ≥ 0.82 g/cm³, with low mechanical strength</li> </ul>				
	<ul> <li>green halogen-free PUR cable: water, used water, slightly aggressive liquids and some oils without aromatic additives with a specific gravity ≥ 0.82 g/cm³</li> <li>black CM cable:</li> </ul>				
Connecting cable length	water and certain acids and lyes with a specific gravity ≥ 1 g/cm³ 1 metre, other cable lengths on request. When ordering, please always state the desired cable type and cable length.				
Optional extras	stuffing glands and fixing weights made of brass, stainless steel 316 Ti or PP				





	Application	Cable	Temperature application range	VDE mark	EMC certificate
	List of the available S	SP floating	switches		
SSP 3/K/PVC	Application up to max. 250 V	PVC,	+ 8°C to + 60°C	X	Х
SSP 1/K/PVC	Light current application	black, 3 x 0.75			Х
SSP 3/K/RN	Application up to max. 250 V	A05RN-F,	0°C to + 60°C	Х	Х
SSP 1/K/RN	Light current application	grey, 3 x 0.75			Х
SSP/S3/K/SIL	Application up to max. 250 V	silicone,	0°C to + 85°C		Х
SSP/S1/K/SIL	Light current application	red-brown, 3 x 0.75			X
SSP/S3/K/PUR	Application up to max. 250 V	PUR,	0°C to + 85°C		Х
SSP/S1/K/PUR	Light current application	green, halogen- free, 3 x 0.5			X
SSP/S3/K/CM	Application up to max. 250 V	CM,	0°C		Х
SSP/S1/K/CM	Light current application	black, 3 x 0.75	to + 85°C		Х
	List of the available S	SPH floating	switches		
SPH 3/K/PVC	Application up to max. 250 V	PVC,	+ 8°C		
SPH 1/K/PVC	Light current application	black, 3 x 0.75	+ 60°C		
SPH 3/K/RN	Application up to max. 250 V A05RN-F,		0°C		
SPH 1/K/RN	Light current application	grey, 3 x 0.75	to + 60°C		
SPH/S3/K/SIL	Application up to max. 250 V silicone,		0°C		
SPH/S1/K/SIL	Light current application	red-brown, 3 x 0.75	+ 85°C		
SPH/S3/K/PUR	Application up to max. 250 V PUR,		0°C		
SPH/S1/K/PUR	Light current application	green, halogen- free, 3 x 0.5	+ 85°C		
SPH/S3/K/CM	Application up to max. 250 V				
SPH/S1/K/CM	Light current application	black, 3 x 0.75	to + 85°C		
SPH/S3/K/PTFE	Application up to max. 250 V	PTFE,	0°C		
SPH/S1/K/PTFE	Light current application	white, 3 x 0.75	+ 85°C		