



# SS/PTFE 55/A .1/K floating switches

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

To ensure a correct switching the cable must be fixed at the required height using for example a fixing weight or a mounting pipe.

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

**Please note the following:**

The floating switch SS/PTFE 55/A 1/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 SS/PTFE 55/A 1/K with gold-plated contact and an SS/PTFE 55/A 3/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: SS/PTFE 55/A 1/K.
- Floating switch is frequently in operation, is permanently in action: SS/PTFE 55/A 3/K.

Technical data	SS/PTFE 55/A 3/K	SS/PTFE 55/A 1/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	PTFE	
Seal material	FPM	
Float protection class	IP 68	
Temperature appl. range	0°C to + 85°C	
Max. immersion depth of the float	max. 3 metres head of water at + 20°C	
Application range	in liquids with a specific gravity $\geq 1.0 \text{ g/cm}^3$	
Connecting cable	white PTFE cable, 3 x 0.75	
Connecting cable length	2 metres, other cable lengths on request.	
<b>Optional extra</b>	<b>fixing weight made of PTFE</b>	

**When ordering, please always state the desired cable length.**





# SS/PTFE 55/.K floating switches

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

To ensure a correct switching the G $\frac{1}{2}$  (G2) screw-in nipple must be screwed in a horizontal G $\frac{1}{2}$  (G2) sleeve.

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

**Please note the following:**

The floating switch SS/PTFE 55/1/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.

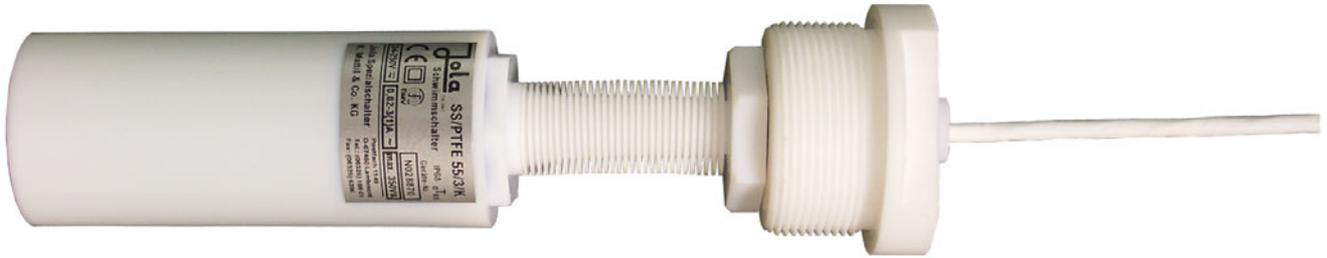
If you need to choose between an SS/PTFE 55/1/K with gold-plated contact and an SS/PTFE 55/3/K with AgNi contact for an AC/DC 24 V application, your choice should be based on the following criteria:

- Floating switch is seldom in operation but should continue to work reliably even after years: SS/PTFE 55/1/K.
- Floating switch is frequently in operation, is permanently in action: SS/PTFE 55/3/K.

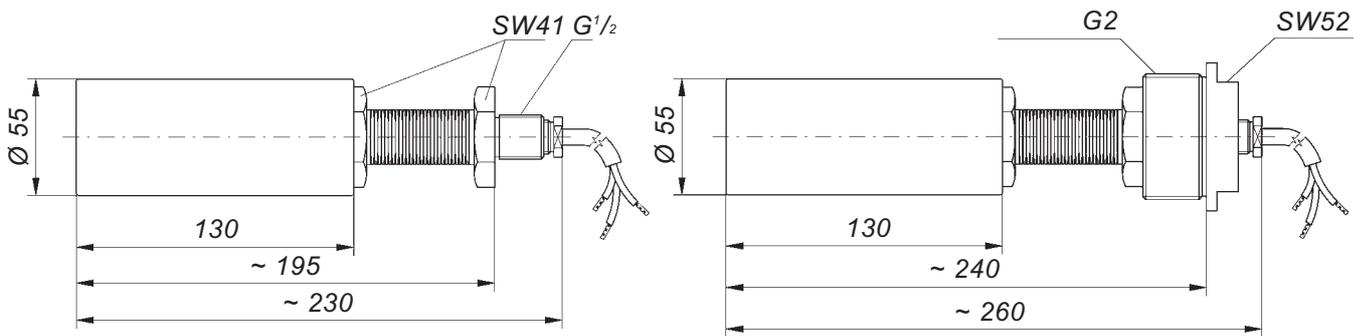
Technical data	SS/PTFE 55/3/K	SS/PTFE 55/1/K
Application	standard application	light current application
Switching voltage	between AC/DC 24 V and AC/DC 250 V	between AC/DC 1 V and AC/DC 42 V
Switching current	between AC 20 mA and AC 3 (1) A or between DC 20 mA and DC 100 mA	between AC 0.1 mA and AC 100 (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	PTFE	
Seal material	FPM	
Appliance protection class	in installed condition inside the tank: IP 68, on the stuffing gland screw fitting outside the tank: IP 54	
Temperature appl. range	0°C to + 85°C	
Max. immersion depth of the float	max. 1 metre head of water at + 20°C	
Application range	in liquids with a specific gravity $\geq 1.0 \text{ g/cm}^3$	
Connecting cable	white PTFE cable, 3 x 0.75	
Connecting cable length	<p><b>The connecting cable is routed through a protective bellows made of PTFE to which a G<math>\frac{1}{2}</math> screw-in nipple made of PTFE is fastened.</b></p> <p>2 metres from screw-in nipple, other cable lengths on request. <b>When ordering, please always state the desired cable length.</b></p>	
Optional extra	<b>G2 screw-in nipple in place of G<math>\frac{1}{2}</math> nipple for installation from the outside through the tank wall</b>	



**SS/PTFE 55/.IK**



**SS/PTFE 55/.IK  
with G2 screw-in nipple (optional)**



**Switching action in liquids with a specific gravity of 1 g/cm<sup>3</sup>**

Contact switches over at

