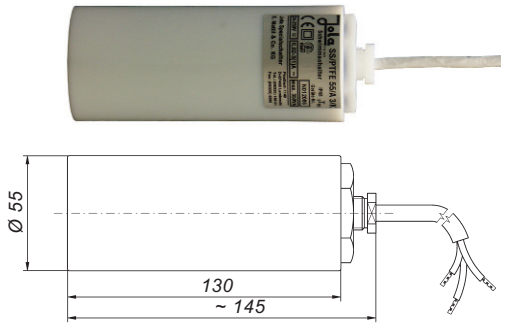
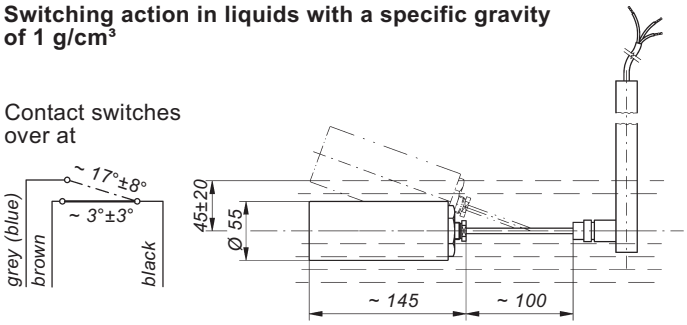
Level controllers

SS/PTFE 55/A 3/K and 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).



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



Technical data	SS/PTFE 55/A 3/K	SS/PTFE 55/A 1/K
Application	for standard applications	for light current applications
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, portential-free changeover contact	
Options for safety application	——	diodes (= variant 1) or resistors (= variant 2) on request
Recommended application	——	via Jola protection relay, see website under “Protection and alarm relays”
Float material	PTFE	
Seal material	FPM	
Float protection class	IP68	
Temperature range	0°C to + 85°C	
Max. immersion depth of float	max. 3 m head of water at + 20°C	
Application range	in liquids with a specific gravity ≥ 1.0 g/cm³	
Connecting cable	white PTFE cable, 3 x 0.75 mm²	
Connecting cable length	2 m, other cable lengths on request. **When ordering, please always state the desired cable length.**	
Optional extra	**FG 58x95/PTFE, external fixing weight made of PTFE**	

TS/O/… immersion probes

These immersion probes consist of a probe tube on which one or several floating switches are mounted and of a terminal box to which the floating switches are connected.

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

Functional description based on a switching example: automatic filling of a tank

The bottom floating switch falls together with the liquid to the minimum level and acts on the contactor when it falls below the horizontal. Liquid is then pumped into the tank. When the maximum level is reached, the top floating switch rises above the horizontal, the contactor holding circuit is interrupted, and the filling process is stopped.

Technical data	TS/O/…
Probe tube: • material • diameter • length	PP see table below according to customer’s specifications
Screw-in nipple (on request)	PP
Terminal box	PP, A 307: 120 x 80 x 55 mm, protection class IP65
Mounting orientation	vertical
Temperature range	depends on the type of cable used, see page 1
Pressure resistance	for pressureless applications only
Mounted floating switches	**SSP •••** (exact type designation see page 1, please always state when ordering)
Electrical data	see page 1

Type designation	Number of mounted floating switches	Type of mounted floating switches	Probe tube diameter	Screw-in nipple (on request)
TS/O/1 x SSP •••	1	SSP ••• **(to be specified)**	16 mm	G1½ or G2
TS/O/2 x SSP •••	2		20 mm	G2
TS/O/3 x SSP •••	3		25 mm	G2
TS/O/4 x SSP •••	4		25 mm	G2
TS/O/5 x SSP •••	5		25 mm	G2

The above equipment will be manufactured in accordance with customer’s specifications.

On request:
- with more than 5 mounted floating switches,
- with adjustable screw-in nipple

When specifying the switching points of the immersion probes, please note that
- **when the liquid level rises**, the contact of the floating switches is not activated when the floating switches reach **the horizontal position**, but is activated as shown in the diagram on page 1.
- **When the liquid level falls**, the contact of the floating switches is activated slightly below **the horizontal position**.