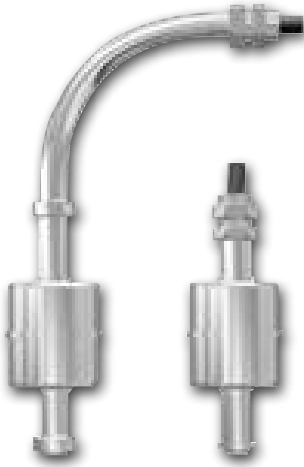


LCSF series top & side mounting float level switches



The operation of the Flowtechnik level probe LCSF is based on the switching of a reed switch by a magnetic float, moving alongside a protective tube. Large variety of versions based on different floats is available. The float can be made of stainless steel or plastic; floats with various dimensions and specific gravity are available for use with different liquid density (down to 0.7 g/cm3) and liquid temperature up to 135 °C. Cable wiring is available with various insulations and lengths. The LCSF switch is available in variants designed for inside vessel mounting and in a special submersible variant with additional weight and forced cable insulation.

- Inside installation
- Low cost
- High reliability
- 135 °C maximum liquid temperature
- Various float and cable types
- Submersible variant
- Wide range of applications

Technical & Dimensional Information

Variant	straight			angled			submersible ⁽¹⁾	
Specifications								
Float type	N1	P1	P2	S1	S2	S7	S10	S20
Liquid density [g/cm ³]	> 0.60	> 0.70	> 0.70	> 0.80	> 0.70	> 0.82	> 0.82	> 0.75
Ext. tube diameter	8(9) mm	8(9) mm	10 mm	8 mm	10 mm	8 mm	8 mm	8 mm
Contact type	reed							
Contact function	NO, NC, or NO/NC							
Contact ratings	"1": max. 120 VAC, max. 0.5 A, max. 10 W; "2": max. 230 VAC, max. 0.5 A, max. 10 W; "3": max. 230 VAC, max. 2 A, max. 50 W							
Probe length [L]	33 mm	33 mm	60 mm	38 mm	55 mm	38 mm	42 mm	55 mm
Process temperature	-20...100 °C	-20...80 °C	-20...80 °C	-20...135 °C	-20...135 °C	-20...135 °C	-20...135 °C	-20...135 °C
Ambient temperature	PVC cable: -20...75 °C; PUR cable: -20...90 °C; silicone or Teflon® cable: -20...135 °C							
Max. process pressure	0 bar	4 bar	4 bar	10 bar	30 bar	30 bar	50 bar	30 bar
Wiring	up to 10 m cable							
Wetted parts	float: NBR, PP, or stainless steel; sheath: stainless steel							
Protection	IP67 (IP68 for submersible variant up to 10 m)							
Process connection (incl. nut & washer)	1/8" or 1/4" M10 or M12	1/8" or 1/4" M10 or M12	3/8" M14 or M16	1/8" or 1/4" M10 or M12	3/8" M14 or M16	1/8" or 1/4" M10 or M12	1/8" or 1/4" M10 or M12	1/8" or 1/4" M10 or M12

⁽¹⁾ With additional weight mounted

Options & Ordering Information

Feature or option	Order Code LCSF-X.X.X.X.X.X.X
Variant	I - straight, L - angled, U - submersible (1)
Float	N1 - plastic, ø17.5x25, P1 - plastic, ø25x25, P2 - plastic, ø30x45, S1 - stainless steel, ø28x28, S2 - stainless steel, ø41x38, S7 - stainless steel, ø30x28, S10 - stainless steel, ø30x32, S20 - stainless steel, ø22x40
Contact function (no float)	A - NO, B - NC, C - NO/NC
Contact ratings	1 - 120V/0.5A/10W, 2 - 230V/0.5A/10W (2), 3 - 230V/2.0A/50W
Cable length 'k' (1 to 10m) and type	1...10PV - PVC, 1...10TF - Teflon®, 1...10SL - silicone, 1...10PU - polyurethane*
Process connection	X - none, Q0 - M16x1.5, Q3 - G3/8", Q7 - M12x1.5, Q8 - M14x1.5, Q18 - G1/8", Q19 - 1/8" NPT, Q20 - M10x1, Q23 - G1/4", Q24 - 1/4" NPT, Q30 - M10x1.5, Z - other (specify!)
Sheath material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404
RC suppressors (1 to 10pcs)	X - none, 1...10RC - RC suppressors in bulk

* Contact Flowtechnik

Ordering Example

LCSF-L.S1.B.2.5PV.Q18.M3.X