

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

The operation of the BASI's level probe BLCSF 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/cm<sup>3</sup>) and liquid temperature up to 135 °C. Cable wiring is available with various insulations and lengths. The BLCSF switch is available in variants designed for inside vessel mounting and in a special submersible variant with additional weight and forced cable insulation.



### Technical specifications

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

<sup>(1)</sup>With additional weight mounted

## ORDER INFORMATION

### BLCSF-x-x-x-x-x-x-x-x

Feature or option	Code values
Variant	I - straight, L - angled, U - submersible <sup>(1)</sup>
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 <sup>(2)</sup> , 3 - 230V/2.0A/50W
Cable length 'k' [m] and type	1PV...10PV - PVC, 1TF...10TF - Teflon®, 1SL...10SL - silicone, 1PU...10PU - polyurethane <sup>(3)</sup>
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 [pcs]	X - none, 1RC...10RC - RC suppressors in bulk

<sup>(2)</sup> B2 and C2 are not available!

<sup>(3)</sup> Contact BASI!