

- ◆ Inside or outside installation
- ◆ Up to 4 switching points
- ◆ 135 °C maximum liquid temperature
- ◆ Various float and cable types
- ◆ Vertical adjustment option
- ◆ Wide range of applications

The operation of the BASI's level probe BLCSFC is based on the switching of reed switches 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 liquid density down to 0.7 g/cm³ and temperature up to 135 °C. Up to 4 switching points can be mounted in a single probe, and the reed switches are capable of switching directly different loads. Cable wiring is available with various insulations and lengths depending on the application requirements. Various process connections for inside or outside mounting are available as well as an option for vertical adjustment.



Technical specifications

Model	BLCSFC											
Specifications												
Float type	N1		P1		P2		S1 / S7 / S10		S20		S2	
Liquid density [g/cm³]	> 0.80		> 0.70		> 0.70		> 0.80		> 0.75		> 0.70	
Ext. tube diameter	8 mm		8 mm		10 mm		8 mm		8 mm		10 mm	
Contact type ⁽¹⁾	NO, NC	NO/NC	NO, NC	NO/NC	NO, NC	NO/NC	NO, NC	NO/NC	NO, NC	NO/NC	NO, NC	NO/NC
Max. common-lead contacts	3	-	3	-	4	2	3	-	3	-	4	2
Max. separated contacts	2	1	2	1	2	1	2	1	2	1	2	1
Max. cable wires	4	3	4	3	5	5	4	3	4	3	5	5
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 ('L0')	100...1000 mm		100...1000 mm		100...2000 mm		100...1000 mm		100...1000 mm		100...2000 mm	
End-to-float distance ('A')	min. 23 mm		min. 23 mm		min. 34 mm		min. 25 / 25 / 29 mm		min. 36 mm		min. 34 mm	
Float running distance ('B')	min. 27 mm		min. 27 mm		min. 47 mm		min. 30 / 30 / 34 mm		min. 42 mm		min. 40 mm	
Process temperature	-20...100 °C		-20...80 °C		-20...80 °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 / 30 / 50 bar		30 bar		30 bar	
Wiring	up to 10 m cable											
Wetted parts	float: NBR, PP, or stainless steel; sheath: stainless steel											
Installation	inside	outside	inside	outside	inside	outside	inside	outside	inside	outside	inside	outside
Protection	IP68	IP65	IP68	IP65	IP68	IP65	IP68	IP65	IP68	IP65	IP68	IP65
Process connection	M10, M12, M14, M16, 1/8", 1/4", 3/8"	min. 1/2"	M10, M12, M14, M16, 1/8", 1/4", 3/8"	min. 1"	M12, M14, M16, 1/4", 3/8"	min. 1"	M10, M12, M14, M16, 1/8", 1/4", 3/8"	min. 1"	M10, M12, M14, M16, 1/8", 1/4", 3/8"	min. 3/4"	M12, M14, M16, 1/4", 3/8"	min. 1 1/2"

⁽¹⁾ Different contact types can be ordered.



Ordering code BLCSFC - x-x-x-x-x-x-x-x

Feature or option	Code values
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) ⁽²⁾	A - NO, B - NC, C - NO/NC
Contact ratings	1 - 120V/0.5A/10W, 2 - 230V/0.5A/10W ⁽³⁾ , 3 - 230V/2.0A/50W
Operating lengths [mm] ⁽⁴⁾	L0/L1/L2/L3/L4
Cable length 'k' [m] and type	1PV...10PV - PVC, 1TF...10TF - Teflon®, 1SL...10SL - silicone, 1PU...10PU - polyurethane ⁽⁶⁾
Process connection	inside installation 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!)
	outside installation X - none, Q4 - G1/2", Q10 - 1/2" NPT, Q12 - G1", Q13 - G1½", Q15 - 1" NPT, Q16 - 1½" NPT, Z - other (specify!)
Sheath material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404
Vertical adjustment	X - none, A - vertical adjustment via stainless steel ferrule installed ⁽⁵⁾
RC suppressors [pcs]	X - none, 1RC...10RC - RC suppressors in bulk

⁽²⁾ Specify (function, ratings) and separate with "/" each of the contacts (up to 4); e.g.: BLCSFC - S1.A2/B1/A3

⁽³⁾ B2 and C2 are not available!

⁽⁴⁾ Specify the exact length (step 50 mm) from the thread bottom to the respective contact according to the limits given in the specification table, strictly observing 'A' and 'B' minimum distances! ³ contact → 'L1'; e.g.: BLCSFC - S1.A2/B1/A3.250/50/150/200

⁽⁵⁾ Only with outside installation!

⁽⁶⁾ Contact BASII



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Multi-point Float Level Switch

BLCSFC

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