



FLOAT LEVEL SWITCHES

Item code: GTS-LEVELSWITCH

The operation of the PETRO range of level probes is based on the switching of reed switches by a magnetic float, moving alongside a protective tube.

FEATURES:

- 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.
- The float is made of stainless steel.

ORDERING:

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⁾		LO/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		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.: BLC5FC - S1.A2/B1/A3.

⁽³⁾ B2 and C2 are not available.

⁽⁴⁾ Specify the exact length (step 50mm) from the thread bottom to the respective contact according to the limits given in the specification table, strictly observing 'A' and 'B' minimum distances. 1st contact - 'L1'; e.g.: BLC5FC - S1.A2/B1/A3.250/50/150/200.

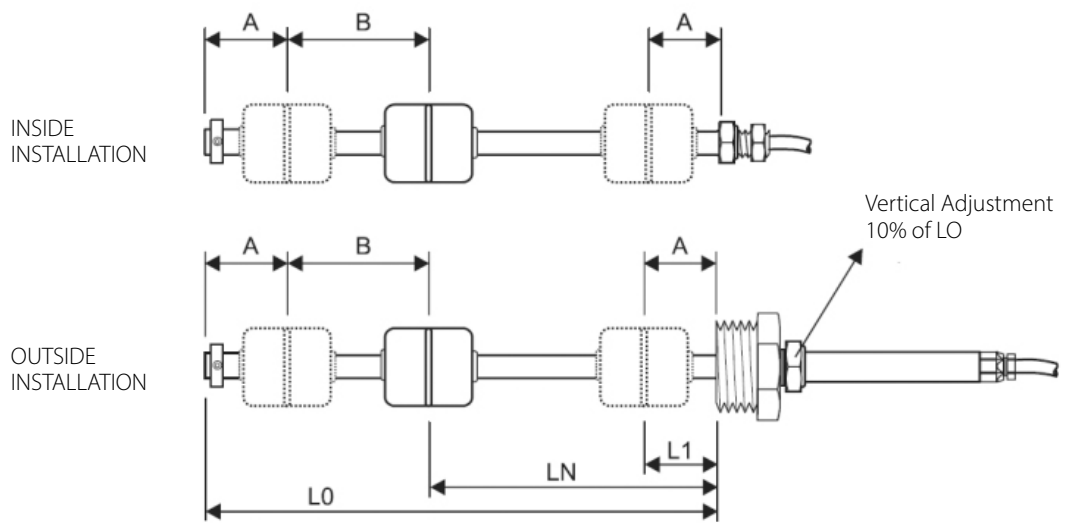
⁽⁵⁾ Only with outside installation.

⁽⁶⁾ Contact BASI.



SPECIFICATIONS:

Model: BLC5FC



Float type	N1		P1		P2		S1 / S7 / S10		S20		S2	
Liquid density (g/cm ³)	> 0.80		> 0.70		> 0.70		> 0.80		> 0.75		> 0.70	
Ext. tube diameter	8mm		8mm		10mm		8mm		8mm		10mm	
Contact type	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 ('LO')	100 - 1000mm		100 - 1000mm		100 - 2000mm		100 - 1000mm		100 - 1000mm		100 - 2000mm	
End-to-float distance ('A')	min. 23mm		min. 23mm		min. 34mm		min. 25/25/29mm		min. 36mm		min. 34mm	
Float running distance ('B')	min. 27mm		min. 27mm		min. 47mm		min. 30/30/34mm		min. 42mm		min. 40mm	
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; IPUR 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 10m 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"

Different contact types can be ordered.