LCF series two point float level controller



Flowtechnik's level controller LCF combines a 2-point float-type level probe LCSFC and a standard LC05 controller installed inside an ABS protection enclosure with IP66. Large variety of versions based on different plastic and stainless steel floats is available. Floats with different dimensions and specific gravity are available for liquid density down to 0.45 g/cm3, temperature up to 135 °C, and pressure up to 50 bar.

Various process connections as well as an option for vertical adjustment are available. LCF can be used for liquid filling or emptying control by switching on and off vessel supply or drainage devices such as pumps and magnet valves. The controller allows the operator to select relevant output relay action for either supply or drainage control. Thanks to the compact combination of probe and in-head controller, LCF can be very useful for building cost-saving level control applications.

• 2-level control with 1 relay output

- User-selectable filling or drainage control
- Various float types & adjustment options
- 135 °C maximum liquid temperature
- Mains or low-voltage power supply

Technical & Dimensional Information

Input type Relay electromechanical o/p Solid state relay (1) MOS gate (1) Output for external SSR Control algorithm Operation mode

Indication LEDs

float position – low or high 8A/250V w/ NO/NC contact 1A/250VAC 0.1A/60V, optically isolated 5...24 V, 30 mA 0N/0FF, filling or emptying, user-selectable red LED for output state

Mains supply voltage Isolated low voltage Non-isolated low voltage Consumption Ambient temperature Case material Dimensions Protection class

230 VAC or 115 VAC 12...24 VAC/DC (1) or 24 VAC 24 VDC max. 2 VA -10...65 °C ABS plastic 80x80x60 mm (w/o glands) IP66



Options & Ordering Information

Feature or option	Order Code LCF-X.X.X.X.X.X
Power Supply	A - 230 VAC, B - 115 VAC, D - 24 VDC, non-isolated, Q - 1224 V, isolated*, R - 24 VAC
Float	N1 - plastic, Ø17.5x25, P1 - plastic, Ø25x25, P2 - plastic, Ø30x45, P3 - plastic, Ø48x45, S1 - stainless steel, Ø28x28, S2 - stainless steel, Ø41x38, S3 - stainless steel, Ø45x55, S4 - stainless steel, Ø52x52, S5 - stainless steel, Ø73x73, S6 - stainless steel, Ø75x108, S7 - stainless steel, Ø30x28, S8 - stainless steel, Ø100x100, Ø150x150, S10 - stainless steel, Ø30x32, S20 - stainless steel, Ø22x40
Relay Output	C - relay NO/NC, D - SSR*, J - for external SSR, M - isolated MOS gate*
Operating Lengths (mm)**	L0/L1/L2
Process connection	X - none, Q4 - G1/2", Q6 - G3/4", Q10 - 1/2" NPT, Q11 - 3/4" NPT, Q12 - G1", Q13 - G1½", Q14 - G2", Q15 - 1" NPT, Q16 - 1½" NPT, Q17 - 2" NPT, Q21 - G3", Q22 - 3" NPT, F - flange (specify!), 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

* Contact Flowtechnik

** Specify the exact length (step 50 mm) from the thread, flange, or box 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.: LCF - A.S1.C.500/50/200.Q12.M1