

Multi-point Float Level Switch with Cable LCSFC

- ◆ Inside or outside installation
- ◆ Up to 5 floats
- ◆ Up to 15 switching points
- ◆ 135 °C maximum liquid temperature
- ◆ Various float and cable types
- ◆ Vertical adjustment option
- ◆ Temperature measurement option

The operation of COMECO's level probe LCSFC 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 0.45 g/cm³ and temperature up to 135 °C. Up to 15 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	LCSFC w/ SS floats													
Specifications														
	INSIDE INSTALLATION													
OUTSIDE INSTALLATION														
Float type	S0 / S1 / S7 / S10	S2	S3	S4	S5	S6	S8 / S9	S20						
Liquid density [g/cm ³]	> 0.80	> 0.70	> 0.65	> 0.55	> 0.55	> 0.50	> 0.50 / > 0.45	> 0.75						
Number of floats	1...3	1...3	1...4	1...4	1...5	1...5	1...5	1...3						
Ext. tube diameter ('d')	8 mm	10 mm	14 mm	14 mm	16/18 mm	16/18 mm	18/25 mm	8 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	NO,NC NO/NC	NO,NC NO/NC	NO,NC NO/NC	NO,NC NO/NC	NO,NC NO/NC	NO,NC NO/NC	NO,NC NO/NC	
Maximum wire leads	4	6	8	8	10/12	10/12	12/16	4						
Max. common-lead contacts	3	-	5	2	7	3	9/10	4/5	9/10	4/5	10/15	5/7	3	-
Max. separated contacts	2	1	3	2	4	2	5/6	3/4	5/6	3/4	6/8	4/5	2	1
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													
Temp. sensor / thermostat	built-in RTD (Pt100, Pt1000) or bimetallic thermostat (see specifications overleaf) (option)													
Probe length ('L0')	100...1000 mm	100...2000 mm	200...3000 mm	200...3000 mm	300...4000 mm	300...5000 mm	300...5000 mm	100...1000 mm						
End-to-float distance ('A')	min. 22/25/25/29mm	min. 34 mm	min. 40 mm	min. 39 mm	min. 50 mm	min. 70 mm	min. 65/90 mm	min. 36 mm						
Float running distance ('B')	min. 25/30/30/34mm	min. 40 mm	min. 57 mm	min. 54 mm	min. 75 mm	min. 110 mm	min. 102/152mm	min. 42 mm						
Float-to-float distance ('C')	min. 45/50/50/58 mm	min. 68 mm	min. 82 mm	min. 78 mm	min. 100 mm	min. 136 mm	min. 126/157 mm	min. 72 mm						
Process temperature	-20...135 °C													
Ambient temperature	PVC cable: -20...75 °C; silicone or Teflon® cable: -20...150 °C; PUR cable: -20...80 °C													
Max. process pressure	8 / 10 / 30 / 50 bar	30 bar	12 bar	30 bar	30 bar	10 bar	30 bar	30 bar						
Outside process connection	min. 1" (M33)	min. 1½"	min. 2"	min. 2"	min. 3" or flange	min. 3" or flange	flange	min. ¾" (M27)						
Inside process connection	M10, M12, M14, M16, M18, M20, 1/8", 1/4", 3/8", 1/2"	M12, M14, M16, M18, M20, M27, 1/4", 3/8", 1/2", 3/4"	M16, M18, M20, M27, M33, 1/2", 3/4", 1"	M16, M18, M20, M27, M33, 1/2", 3/4", 1"	M20, M27, M33, 1/2", 3/4", 1"	M20, M27, M33, 1/2", 3/4", 1"	M27, M33, 3/4", 1"	M10, M12, M14, M16, M18, M20, 1/8", 1/4", 3/8", 1/2"						
Wiring	up to 20 m flexible cable: PVC, silicone, or Teflon® (2...16 x 0.25 mm ² , OD 4...8 mm) or PUR ⁽²⁾ (2...16 x 0.50 mm ² , OD 6...12 mm)													
Wetted parts	stainless steel													
Protection	IP67 (inside installation) or IP65 (outside installation)													

⁽¹⁾ Different contact types can be ordered.

⁽²⁾ Ask for compatibility with d=8/10 mm!

Built-in temperature sensor / thermostat (option)		
	RTD sensor	thermostat
Type	Pt100 or Pt1000	NC (under set point)
Ratings	2-wire	max. 250 VAC / 1.6 A
Set point	-	40...130 °C (step 5 °C)
Accuracy	class 'B'	± 5 °C
Wires occupied	2	2 or 1 (+ common)
Probe extension	-	≈ 30 mm

How to choose cable:

1. Use the above table to calculate the maximum number of wires occupied by the level contacts, by multiplying the number of contacts by the number of leads for the selected type.
2. Decide on the need of temperature measurement.
3. Add the wires occupied by the built-in temperature sensor or thermostat (use the table on the left). The resultant sum must not exceed the maximum number of wire leads!
4. Decide on the need of grounding for your probe - it will occupy 1 wire.
5. Check the ambient temperature and chemical properties.
6. Find the proper cable from the table above.

Ordering code LCSFC - nG1.G2'2"/G2'2"/.../G2'2".G6.G8.G9.G10.G14 - #1.#2

Code	Feature or option	Code values
G1	Float ⁽³⁾ (n' - number of floats)	S0 - stainless steel, ø25x25, 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, S9 - stainless steel, ø150x150, S10 - stainless steel, ø30x32 ⁽⁸⁾ , S20 - stainless steel, ø22x40 ⁽⁸⁾
G2'	Contact function (no float) ⁽⁴⁾	A - NO (closes at float down), AU - NO (closes at float up), B - NC (opens at float down), BU - NC (opens at float up), C - NO/NC
G2"	Contact ratings	1 - 120 V / 0.5 A / 10 W, 2 - 230 V / 0.5 A / 10 W ⁽⁵⁾ , 3 - 230 V / 2 A / 50 W
G6	Operating lengths [mm] ⁽⁶⁾	L0/L1/L2/L3/.../LN
G8	Cable length 'k' [m] and type	1PV...10PV - PVC, 1SL...10SL - silicone, 1TF...10TF - Teflon®, 1PU...10PU - polyurethane
G9	Process connection	X - none, Q0 - M16x1.5, Q1 - M18x1.5, Q2 - M20x1.5, Q3 - G3/8", Q4 - G1/2", Q5 - M27x2, Q6 - G3/4", Q7 - M12x1.5, Q8 - M14x1.5, Q10 - 1/2" NPT, Q11 - 3/4" NPT, Q12 - G1", Q15 - 1" NPT, Q18 - G1/8", Q19 - 1/8" NPT, Q20 - M10x1, Q23 - G1/4", Q24 - 1/4" NPT, Q25 - M33x2, Q30 - M10x1.5, Z - other (specify!)
	outside installation	X - none, Q5 - M27x2, Q6 - G3/4", Q11 - 3/4" NPT, Q12 - G1", Q13 - G1½", Q14 - G2", Q15 - 1" NPT, Q16 - 1½" NPT, Q17 - 2" NPT, Q21 - G3", Q22 - 3" NPT, Q25 - M33x2, Q27 - G1¼", Q28 - 1¼" NPT, F - flange (specify!), Z - other (specify!)
G10	Sheath material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404, M15 - 1.4362
G14	Grounding	X - none, G - grounded
#1	Vertical adjustment	X - none, A - vertical adjustment via stainless steel ferrule installed ⁽⁷⁾
#2	Built-in temperature sensor / thermostat	X - none, D - Pt100, G - Pt1000, T__ - thermostat (specify switching temperature in °C!)

⁽³⁾ All the floats on one probe must be of a same type!

⁽⁴⁾ Specify (function, ratings) and separate with "/" each of the contacts for the 1st float, then for the 2nd, and so on, separating specifications per each float with ':'; e.g.: LCSFC - 2S1.A2/B1/A3.A1/C3

⁽⁵⁾ B2 and C2 are not available!

⁽⁶⁾ Specify the exact length (step 50 mm) from the thread or flange bottom to the respective contact according to the limits given in the specification table, strictly observing 'A', 'B', and 'C' minimum distances! 1st contact → 'L1'; e.g.: LCSFC - 2S1.A2/B1/A3.A1/C3.500/50/100/200/250/350

⁽⁷⁾ Only with outside installation!

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Outside process connection	min. 3/4" (M24)	min. 1/2" (M20)		min. 1" (M33)		min. 1" (M33)		min. 1" (M33)		min. 1 1/4"		min. 1 1/4"																																																																																																																																																																																																																																																																																																																																	
Inside process connection	M8, M10, M12, M14, M16, M18, M20, 1/8", 1/4", 3/8", 1/2"	M10, M12, M14, M16, M18, M20, M27, 1/8", 1/4", 3/8"		M10, M12, M14, M16, M18, M20, 1/8", 1/4", 3/8", 1/2"		M12, M14, M16, M18, M20, M27, 1/4", 3/8", 1/2"		M14, M16, M18, M20, M27, 1/4", 3/8", 1/2"		M20, M27, M33, 1/2", 3/4"		M20, M27, M33, 1/2", 3/4"																																																																																																																																																																																																																																																																																																																																	
Wiring	up to 20 m flexible cable: PVC, silicone, or Teflon® (2...16 x 0.25 mm ² , OD 4...8 mm) or PUR ⁽²⁾ (2...16 x 0.50 mm ² , OD 6...12 mm)																																																																																																																																																																																																																																																																																																																																												
Wetted parts	stainless steel (except floats)																																																																																																																																																																																																																																																																																																																																												
Protection	IP67 (inside installation) or IP65 (outside installation)																																																																																																																																																																																																																																																																																																																																												

⁽¹⁾ Different contact types can be ordered.

⁽²⁾ Ask for compatibility with d=8/10 mm!

Built-in temperature sensor / thermostat <i>(option)</i>		
	RTD sensor	thermostat
Type	Pt100 or Pt1000	NC (under set point)
Ratings	2-wire	max. 250 VAC / 1.6 A
Set point	-	40...130 °C (step 5 °C)
Accuracy	class 'B'	± 5 °C
Wires occupied	2	2 or 1 (+ common)
Probe extension	-	≈ 30 mm

How to choose cable:

1. Use the above table to calculate the maximum number of wires occupied by the level contacts, by multiplying the number of contacts by the number of leads for the selected type.
2. Decide on the need of temperature measurement.
3. Add the wires occupied by the built-in temperature sensor or thermostat (use the table on the left). The resultant sum must not exceed the maximum number of wire leads!
4. Decide on the need of grounding for your probe - it will occupy 1 wire.
5. Check the ambient temperature and chemical properties.
6. Find the proper cable from the table above.

Ordering code LCSFC - nG1.G2'2"/G2'2"/.../G2'2".G6.G8.G9.G10.G14 - #1.#2

Code	Feature or option	Code values
G1	Float ⁽³⁾ (‘n’ - number of floats)	N1 - NBR, ø17.5x25, P0 - PP, ø19x16, P1 - PP, ø24x22, P2 - PP, ø29x50, P3 - PP, ø38x60, P4 - PVDF, ø38x60, P10 - PP, ø29x11
G2'	Contact function (no float) ⁽⁴⁾	A - NO (closes at float down), AU - NO (closes at float up), B - NC (opens at float down), BU - NC (opens at float up), C - NO/NC
G2"	Contact ratings	1 - 120 V / 0.5 A / 10 W, 2 - 230 V / 0.5 A / 10 W ⁽⁵⁾ , 3 - 230 V / 2 A / 50 W
G6	Operating lengths [mm] ⁽⁶⁾	L0/L1/L2/L3/.../LN
G8	Cable length 'k' [m] and type	1PV...10PV - PVC, 1SL...10SL - silicone, 1TF...10TF - Teflon®, 1PU...10PU - polyurethane
G9	Process connection	X - none, Q0 - M16x1.5, Q1 - M18x1.5, Q2 - M20x1.5, Q3 - G3/8", Q4 - G1/2", Q5 - M27x2, Q6 - G3/4", Q7 - M12x1.5, Q8 - M14x1.5, Q10 - 1/2" NPT, Q11 - 3/4" NPT, Q12 - G1", Q15 - 1" NPT, Q18 - G1/8", Q19 - 1/8" NPT, Q20 - M10x1, Q23 - G1/4", Q24 - 1/4" NPT, Q25 - M33x2, Q30 - M10x1.5, Z - other (specify!)
	inside installation	X - none, Q2 - M20x1.5, Q4 - G1/2", Q5 - M27x2, 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, Q25 - M33x2, Q27 - G1½", Q28 - 1¼" NPT, F - flange (specify!), Z - other (specify!)
G10	Sheath material	M1 - 1.4301, M2 - 1.4541, M3 - 1.4571, M9 - 1.4404, M15 - 1.4362
G14	Grounding	X - none, G - grounded
#1	Vertical adjustment	X - none, A - vertical adjustment via stainless steel ferrule installed ⁽⁷⁾
#2	Built-in temperature sensor / thermostat	X - none, D - Pt100, G - Pt1000, T - thermostat (specify switching temperature in °C!)

⁽³⁾ All the floats on one probe must be of a same type!

⁽⁴⁾ Specify (function, ratings) and separate with "/" each of the contacts for the 1st float, then for the 2nd, and so on, separating specifications per each float with '': e.g.: LCSFC - 2P1.A2/B1/A3.A1/C3

⁽⁵⁾ B2 and C2 are not available!

⁽⁶⁾ Specify the exact length (step 50 mm) from the thread or flange bottom to the respective contact according to the limits given in the specification table, strictly observing 'A', 'B', and 'C' minimum distances! 1st contact → 'L1'; e.g.: LCSFC - 2P1.A2/B1/A3.A1/C3.500/50/100/200/250/350

⁽⁷⁾ Only with outside installation!