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- Float Level Transmitter LCSF100
- High reliability
- ♦ 4...20 mA loop-powered output
- ♦ Up to 2 alarm contacts
- ♦ 135 °C maximum liquid temperature
- ♦ Local programmable indicator available
- ATEX certified Ex version available

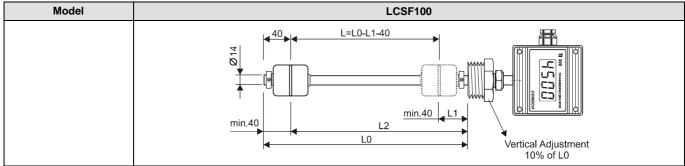
The operation of the LCSF100 level transmitter is based on the switching of reed switches by a magnetic float, moving alongside a protective tube, and the reed switches act on the elements of a resistor matrix, changing the total matrix resistance in linear proportionality with the level measured. In addition to providing a 2-wire 4...20 mA output signal with 6 or 12 mm level resolution, the transmitter may be equipped with up to 2 alarm contacts. Moreover, LCSF100 can be equipped with an integrated loop-powered programmable indicator with independent alarm outputs. This level transmitter is very useful in applications where ultrasonic or capacitive transmitters would not work because of the foam, dense vapor, or non-homogeneous gas layer above the liquid surface.

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## **Technical specifications**

Power supply		
Loop supply voltage	832 VDC	
Admissible variations	10% p-p at 50 Hz	
Operating conditions		
Medium temperature	-40135 °C	
Ambient temperature	-2070 °C (-2060 °C for Ex housing)	
Ambient humidity	095 %RH, non-condensing	
Storage temperature	-4080 °C	
Process pressure	max. 12 bar	
Design and materials		
Wetted parts	stainless steel	
Process connection	G2", NPT 2", or flange	
Housing	protective head or plastic box	
Housing protection	IP55IP68 (depending on housing type)	
Wiring	terminal block inside protective housing	

<sup>(1)</sup> With windowed head only! See indicator datasheet and order separately!



## Ordering code LCSF100 - G0.G2G2.G3.G6.G9.G10.G11 - #1.#2

Code	Feature or option	Code values
G0	Housing	B - head type "B", G - head type "G", D - plastic box 80x80x60 mm, DHW - head type "DHW", GS - head type "GS", ES - head type "ES" (5), EG - head type "EG", EGS - head type "EGS" (5), EGW - head type "EGW", EX - explosion-proof instrument housing (specify!)
G2	Alarm contact (2)	X - none, A - NO
G3	Resolution	12 - 12 mm, 6 - 6 mm
G6	Operating lengths [mm] (3)	L0/L1/L2
G9	Process connection	Q14 - G2", Q17 - 2" 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
G11	Output signal	<b>X</b> - none <sup>(4)</sup> , <b>F</b> - 420 mA
#1	Options	X - none, A (SS) - vertical adjustment via stainless steel ferrule installed, A (BR)- vertical adjustment via bronze ferrule installed, A (TF) - vertical adjustment via teflon ferrule installed, OP - electrochemically polished sheath surface
#2	Incorporated devices	X - none, A - local indicator (1)

<sup>(2)</sup> First code High alarm L1 (G2\_\_), then code Low alarm L2 (\_\_G2).

<sup>(3)</sup> 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 the minimum distances! e.g.: LCSF100 - B.AA.12.**500/100/450** (*In this case, measurement range L* = 360 mm)

<sup>(4)</sup> With local indicator only!

<sup>(5)</sup> Contact COMECO!