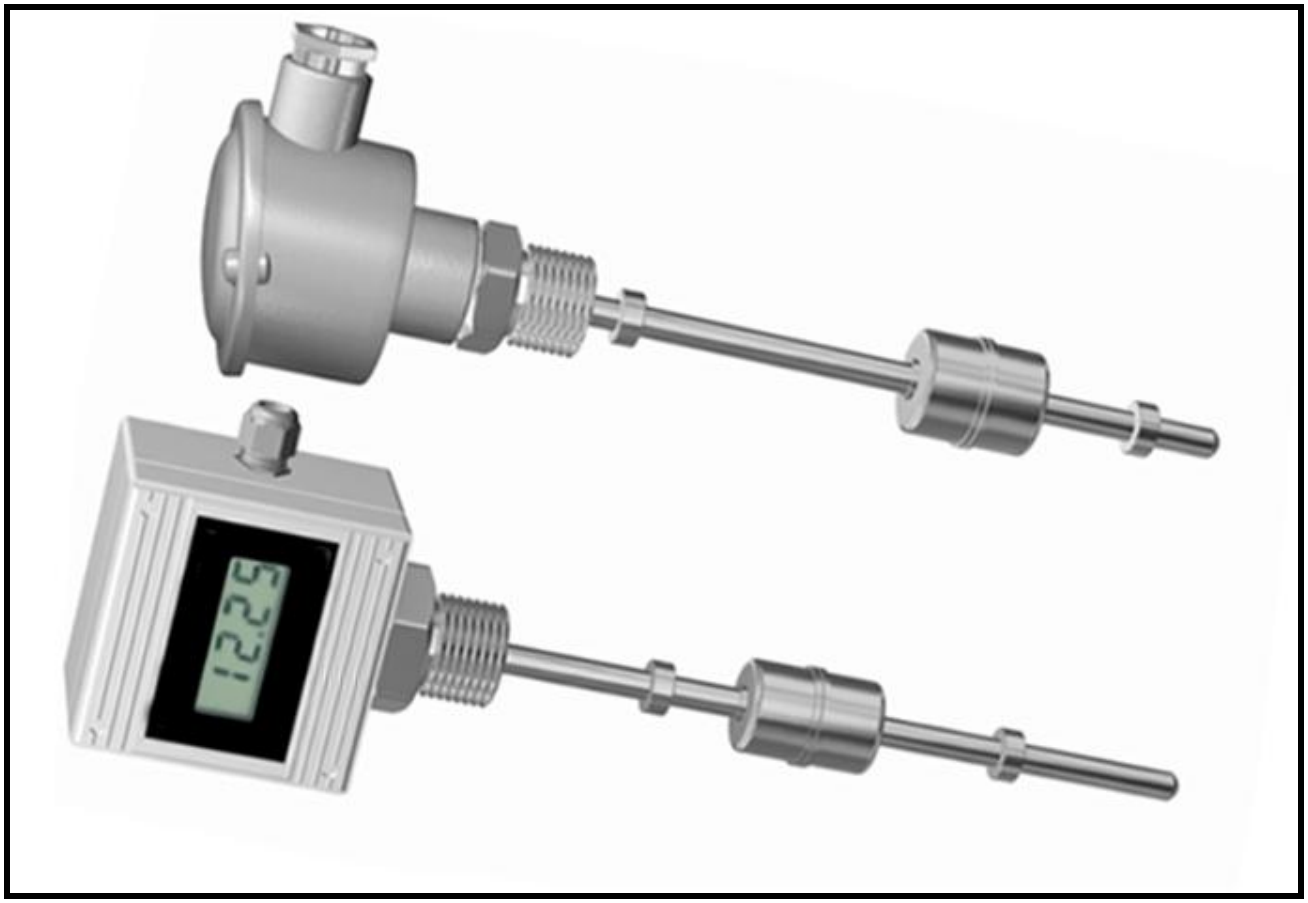
FLOAT LEVEL TRANSMITTER BLT100



. ♦ 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 BLT100 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, BLT100 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. Technical specificati

Technical specifications

Input	
Float type	ø45x55 mm, stainless steel
Liquid density	0.65 g/cm^3
Measurement range ('L')	300...3000 mm
Resolution	6 mm or 12 mm
Outputs	
Signal type	4...20 mA, 2-wire
ZERO and SPAN adjustment	± 20%, by multi-turn trimmers
Maximum line load	750 Ω at 24V/20mA
Under-scale current limit	0.2 mA
Over-scale current limit	32 mA
Alarm contacts	2 NO contacts for Low / High level
Contact ratings	max. 60 V, max. 0.5 A, max. 10 W
Local indicator [1] *(option)*	BLP200-Y or BLP200-Z

Power supply	
Loop supply voltage	8...32 VDC
Admissible variations	10% p-p at 50 Hz
Operating conditions	
Medium temperature	-40...135 °C
Ambient temperature	-20...70 °C (-20...60 °C for Ex housing)
Ambient humidity	0...95 %RH, non-condensing
Storage temperature	-40...80 °C
Process pressure	max. 20 bar
Design and materials	
Wetted parts	stainless steel
Process connection	G2", NPT 2", or flange
Housing	protective head or plastic box
Housing protection	IP55...IP68 (depending on housing type)
Wiring	terminal block inside protective housing, accessible through cable gland

[1] With windowed head only! See indicator datasheet and order separate

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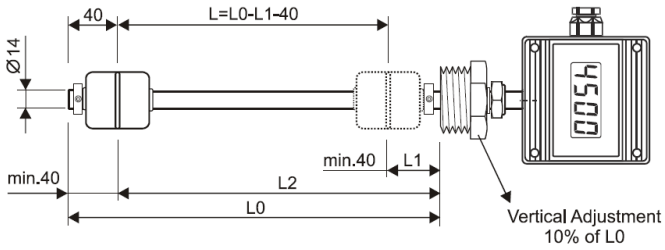
Model	BLT100
	

Ordering code

BLT100 - x-x-x-x-x-x-x-x-x

Feature or option	Code values
Housing	**B** - head type "B", **G** - IP65 head type "G", **D** - ABS box 80x80x60 mm, **EG** - IP68 ATEX-approved Ex 'd' head type "EG", **EGS** - IP66 ATEX-approved Ex 'd' head type "EGS", **EGW** - windowed ATEX-approved Ex 'd' head type "EGW", **EX** - explosion-proof instrument housing (specify!)
Alarm contact [2]	**X** - none, **A** - NO
Resolution	**12** - 12 mm, **6** - 6 mm
Operating lengths [mm] [3]	**L0/L1/L2**
Process connection	**Q14** - G2", **Q17** - 2" NPT, **F** - flange (specify!), **Z** - other (specify!)
Sheath material	**M1** - 1.4301, **M2** - 1.4541, **M3** - 1.4571, **M9** - 1.4404, **M15** - 1.4362
Output signal	**X** - none [4], **F** - 4…20 mA
Local indicator	**X** - none, **A** - local indicator mounted [1]
Vertical adjustment	**X** - none, **A** - vertical adjustment via stainless steel ferrule installed

[2] First code High alarm L1 (G2__), then code Low alarm L2 (__G2).
[3] 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.: BLT100 - B.AA.12.**500/100/450** *(In this case, measurement range L = 360 mm)*
[4] With local indicator only!