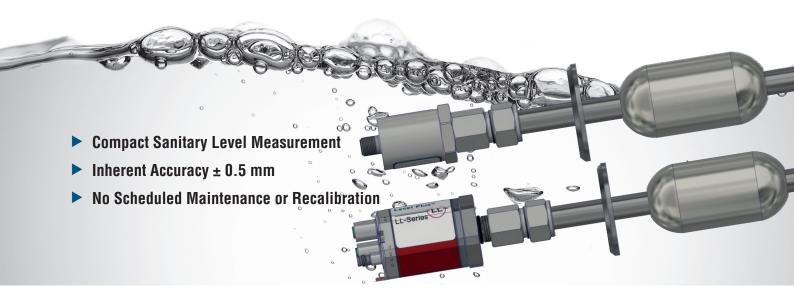


Product Brief

Level Plus® Model LLH

Magnetostrictive Liquid Level Transmitters with Temposonics® Technology



The Level Plus LLH satisfies the demand for an accurate and robust liquid level transmitter for sanitary/hygienic applications. The LLH can provide product level and/or interface level in a compact mechanical design. There is no requirement for scheduled maintenance or recalibration for the expected 10 year life of the sensor. *Set it and Forget it.*

The LLH liquid level transmitter can be mounted on most tanks offering NPT and Tri-Clamp connections from ¾ to 6 inches. The LLH also offers a variety of outputs including Analog, CANbus, SSI, IO-Link, POWERLINK, PROFINET, EtherNet/IP™ and EtherCAT®. Included in the model number is the selection of the float and cable. The single model offers everything needed for level measurement in a variety of sanitary applications.

FEATURES

- Sanitary Finish Ra 25 uin (0.64 um)
- Product and Interface Level
- No scheduled maintenance or recalibration
- Inherent Accuracy ± 0.5 mm
- IP69K
- 100 g Shock/15 g Vibration

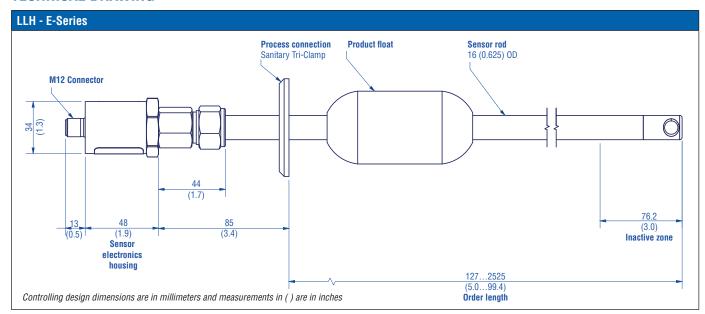
APPLICATIONS

- · Bottle filling machines
- CIP tanks
- Skids
- · Balance tanks
- Fermentation tanks
- Dispensing

TECHNICAL DATA

Output Options	
Voltage	010 VDC or 100 VDC, 010 VDC and 100 VDC (controller input resistance RL > 5 k Ω)
Current	420 mA or 204 mA (minimum/maximum load: 0/500 Ω)
SSI (Synchronous Serial Interface)	Binary or Gray, 24 or 25 bit
CANbus	CANopen: CIA standard DS 301 V3.0/encoder profile DS 406 V3.1, CAN System ISO-11898
IO-Link	V1.1, 32 bit signed, COM3 (230.4 kBaud)
EtherCAT®	100 Base-Tx, Fast Etherner, 100 MBits/s max
POWERLINK	Ethernet POWERLINK V2
EtherNet/IP™	Encoder CIP device profile with CIP Sync and DLR capabilities, 100 MBits/s max
PROFINET	PROFINET RT, PROFINET IRT version 2.3, Temposonics Profile & Encoder Profile 4.1, 100 MBits/s max
Measured value	Product Level and/or Interface Level
Measurement parameters	
Resolution	0.1 mm or greater
Inherent accuracy	± 0.5 mm
Operating conditions	
Operating temperature	-40+75 °C (-40+167 °F)
Design/Material	
Sensor electronics housing/flange	Stainless steel 1.4305 (AISI 303); option: Stainless steel 1.4404 (AISI 316L)
Wetted parts	Stainless steel 1.4404 (AISI 316L) Ra 25 uin. (Ra 0.625um)
Order length	127 to 2525 mm (5.0 to 99.4 in)
Operating pressure	5/8" O.D. 69 bar (1000 psi)

TECHNICAL DRAWING





















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