

Data sheet: HBLT & HBSLT

Liquid Level Sensors are vital for accurately measuring liquids in tanks and vessels across industries. These



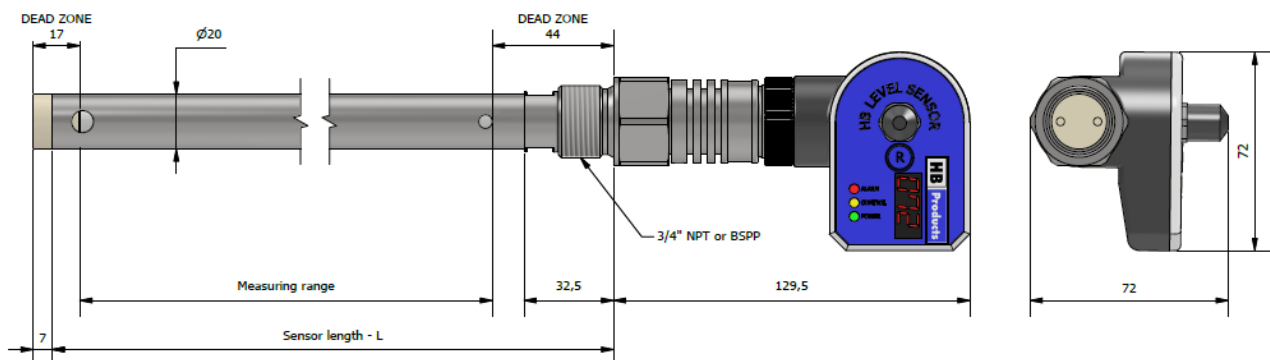
capacitive sensors are designed to measure liquid levels in gas-filled vessels. The HBLT provides a 4-20 mA output, while HBSLT includes a built-in controller for direct valve control. Both are part of the split-design sensor family, sharing the same electronic unit with a digital display that shows the liquid level percentage.

Model	Refrigerants	Liquids
HBLT-A3 & HBSLT-A3	Ammonia R717, Water R718, R1336mzz	Water & Alcohols

Power supply	HBLT	HBSLT/C, S, PWM
Voltage	24V AC/DC + 10%	24V AC/DC + 10%
Max. load resistance	500 Ω	500 Ω
Max. energy consumption	600 mA	600 mA + valve consumption
Plug connection	M12 - 5 pins	M12 - 5 pins + cable output
Output		
Analog output	4-20 mA	4-20 mA + valve output max 1A
Transistor output - alarm	PNP, 1 A	None
Contact function - alarm	NO/NC (Programmable)	None
Environmental conditions		
Ambient temperature	-30°C to 50°C (-22°F to 122°F)	
Liquid temperature	-50°C to 145°C (-76°F to 140°F)	
Max. pressure	150 bar (2175 psi)	
Protection degree	IP65	
Vibrations	IEC 60068-2-6 (4g)	
Mechanical specifications		
Thread connections	3/4" NPT or BSPP	
Adapter - 3/4" NPT / 1" BSPP (option)	HBS/ADAP/8/2 and HBS/ADAP/9/6	
Sensor length	200 mm to 3.000 mm	
Installation	Top-down or bottom-up	
Dead zone	17 mm at the bottom – max 44 mm at the top, depending on the installation	
Size	See the dimensional drawing on the next page	
Material - mechanical part	AISI 304 / PTFE / PEEK / PA6	
Material - electronic part	PA46 / PC	
House type	Angled oval house for vertical installation	
Approvals		

EMC-Emission	EN 61000-3-2
EMC-Immunity	EN 61000-4-2
Indication	
Display	3-digit percentage display
LED indication	Green, yellow & red LED
Configurations	
Configuration	HB Tool
Calibration	Precalibrated for ammonia
Scope of supply	
Package includes	Sensor with specified length 5m Supply cable with M12 plug

Dimensional drawing



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