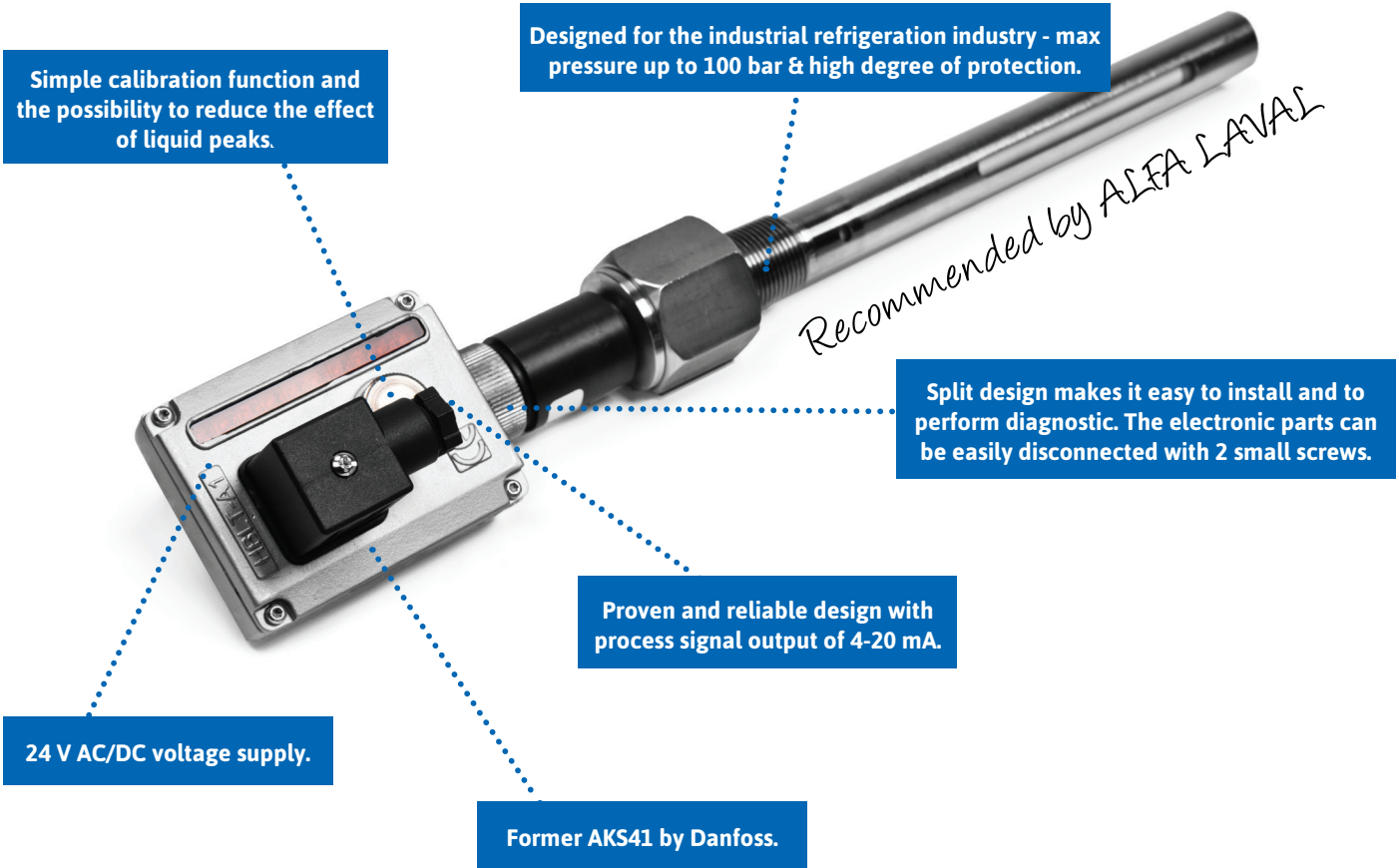


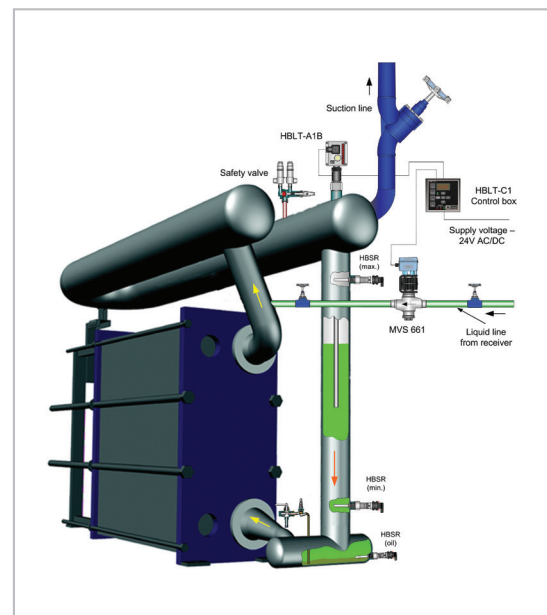
# NH<sub>3</sub> Level Sensor

Category: HBLT-A1



## Functional description:

HBLT capacitive liquid level transmitters are used to measure liquid levels in refrigerant vessels. The HBLT transmits an active 4-20 mA signal which is proportional to the liquid level. 4 mA when the transmitter does not register liquid and 20 mA when the entire transmitter is surrounded by liquid. The 4-20 mA signal from HBLT can be used in conjunction with a controller e.g HBLT-C1 to control the liquid level.

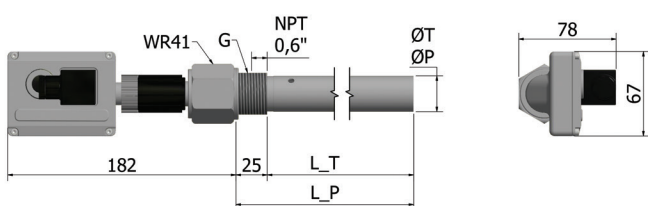


### Technical data

Power supply		Mechanical specifications	
Voltage	24 V AC/DC + 10%	Thread connection	3/4" NPT & 1" BSPP
Current draw	Max 50 mA	Material – mechanical parts	AISI 304 / PTFE
		Material – electronic parts	Nylon 6 (PA)
Plug connection	DIN 43650 - 4 pins	Dimensions	See drawing
Output		Environmental conditions	
Analog output	4-20 mA	Ambient temperature	-30...+50°C
Alarm output	NA	Refrigerant temperature	-60...+80°C
LED indication	Bargraph (option)	Max pressure	100 bar
Max. load resistance	500 ohm	Protection degree	IP65
Cable specification*		Vibrations	
Cable size	3 x 0.34 mm <sup>2</sup>		
Cable glands	PG7 / M8		
Cable resistance	500 Ω/Km		
Approvals			
CE	EN 61000-2		
Configuration			
Type of configuration	Push bottom		

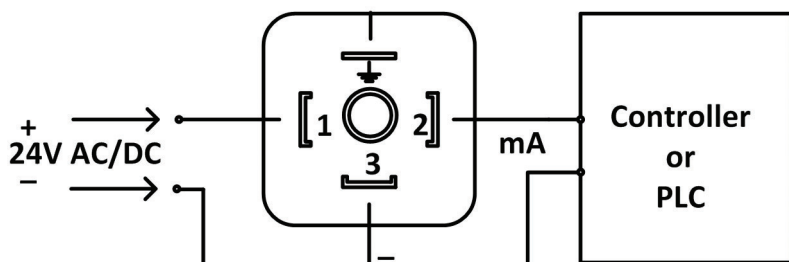
\*Cable not included.

### Mechanical dimensions



### Electrical installation

Alternative ( - ) supply – 7

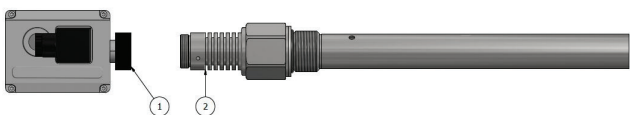


## Ordering code

Length / thread (G)	Ordering code with out Bargraph	Ordering code with Bargraph*
280 mm / 1" BSPP	HBLT-A1-2.8	HBLT-A1B-2.8
500 mm / 1" BSPP	HBLT-A1-5	HBLT-A1B-5
800 mm / 1" BSPP	HBLT-A1-8	HBLT-A1B-8
1000 mm / 1" BSPP	HBLT-A1-10	HBLT-A1B-10
1200 mm / 1" BSPP	HBLT-A1-12	HBLT-A1B-12
1500 mm / 1" BSPP	HBLT-A1-15	HBLT-A1B-15
1700 mm / 1" BSPP	HBLT-A1-17	HBLT-A1B-17
2200 mm / 1" BSPP	HBLT-A1-22	HBLT-A1B-22
3000 mm / 1" BSPP	HBLT-A1-30	HBLT-A1B-30
6" / 3/4" NPT	HBLT-A1-6U	HBLT-A1B-6U
8" / 3/4" NPT	HBLT-A1-8U	HBLT-A1B-8U
12" / 3/4" NPT	HBLT-A1-12U	HBLT-A1B-12U
15.3" / 3/4" NPT	HBLT-A1-15.3U	HBLT-A1B-15.3U
19.2" / 3/4" NPT	HBLT-A1-19.2U	HBLT-A1B-19.2U
23.1" / 3/4" NPT	HBLT-A1-23.1U	HBLT-A1B-23.1U
30" / 3/4" NPT	HBLT-A1-30U	HBLT-A1B-30U
35" / 3/4" NPT	HBLT-A1-35U	HBLT-A1B-35U
45" / 3/4" NPT	HBLT-A1-45U	HBLT-A1B-45U
55" / 3/4" NPT	HBLT-A1-55U	HBLT-A1B-55U
65" / 3/4" NPT	HBLT-A1-65U	HBLT-A1B-65U
85" / 3/4" NPT	HBLT-A1-85U	HBLT-A1B-85U
105" / 3/4" NPT	HBLT-A1-105U	HBLT-A1B-105U
120" / 3/4" NPT	HBLT-A1-120U	HBLT-A1B-120U

\*The HBLT-A1B (The version with bargraph) will soon be replaced by HBLT-A2

## Spare parts



Position	Specification	Type	Thread	Ordering code
1	Electronic parts	Programmable without bargraph		HBLT-A1-EL
		Programmable with bargraph		HBLT-A1B-EL
2	Mechanical parts	For 280 mm length	1" BSPP (G)	HBLT-MEK-2.8
		For 500 mm length	1" BSPP (G)	HBLT-MEK-5
		For 800 mm length	1" BSPP (G)	HBLT-MEK-8
		For 1000 mm length	1" BSPP (G)	HBLT-MEK-10
		For 1200 mm length	1" BSPP (G)	HBLT-MEK-12
		For 1500 mm length	1" BSPP (G)	HBLT-MEK-15
		For 1700 mm length	1" BSPP (G)	HBLT-MEK-17
		For 2200 mm length	1" BSPP (G)	HBLT-MEK-22
		For 3000 mm length	1" BSPP (G)	HBLT-MEK-30
		For 6" length	3/4" NPT	HBLT-MEK-6U
		For 8" length	3/4" NPT	HBLT-MEK-8U
		For 12" length	3/4" NPT	HBLT-MEK-12U
		For 15.3" length	3/4" NPT	HBLT-MEK-15.3U
		For 19.2" length	3/4" NPT	HBLT-MEK-19.2U
		For 23.1" length	3/4" NPT	HBLT-MEK-23.1U
		For 30" length	3/4" NPT	HBLT-MEK-30U
		For 35" length	3/4" NPT	HBLT-MEK-35U
			For 45" length	3/4" NPT
	For 55" length	3/4" NPT	HBLT-MEK-55U	
	For 65" length	3/4" NPT	HBLT-MEK-65U	
	For 85" length	3/4" NPT	HBLT-MEK-85U	
	For 105" length	3/4" NPT	HBLT-MEK-105U	
	For 120" length	3/4" NPT	HBLT-MEK-120U	