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Liquid Level Sensors for different types of liquids

24V AC or DC Ambient temp. -30°C to 50°C (-22°F to 122°F)	Oil Oil temp. max 145°C (293°F)	R744 CO2, R600 Butane, R600a Isobutane, R290 Propane Liquid temp. max 80°C (176°F)	Synthetic refrigerants HFC/ HFO/CFC Liquid temp. max 80°C (176°F)	R717 NH3 R718 Water Alcohols Liquid temp. max 80°C (176°F)
Rigid probe analog output only	HBLC-OIL 200-3000 mm  	HBLC-CO2 200-3000 mm  	HBLC-HFC 200-3000 mm  	HBLT-A3 200-3000 mm  
Rigid probe analog and direct control output	HBSLC-OIL/C HBSLC-OIL/S HBSLC-OIL/PWM 200-3000 mm  	HBSLC-CO2/C HBSLC-CO2/S HBSLC-CO2/PWM 200-3000 mm  	HBSLC-HFC/C HBSLC-HFC/S HBSLC-HFC/PWM 200-3000 mm  	HBSLT-A3/C HBSLT-A3/S HBSLT-A3/PWM 200-3000 mm  
Wire analog output only			HBLT-W-Wire 250-6000 mm  	HBLT-W-Wire 250-6000 mm  
Wire analog and direct control output			HBSLT-W-Wire/C HBSLT-W-Wire/S HBSLT-W-Wire/PWM 250-6000 mm  	HBSLT-W-Wire/C HBSLT-W-Wire/S HBSLT-W-Wire/PWM 250-6000 mm  

 Indicate if the sensor is available in a special ATEX/IECEx version.

 NPT or BSPP connection

Settings and Connections

Settings

All the sensors has numerous settings for making the measurement more accurate provide alarms etc.

The sensor can be connected to a PC with HB Tool installed using an USB/M12 connection cable.

The tool can be downloaded for free from our web page.



Sensors with analog output

All sensors has an analog output.

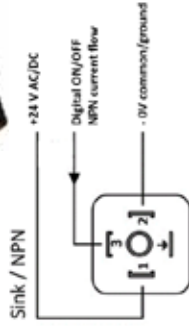
Sensor with M12 connector



- 1: +24V DC or 24V AC (Brown)
- 2: - common or 24V AC (White)
- 3: Remote input 4-20 mA (Blue)
- 4: Analog output 4-20 mA (Black)
- 5: Run-in signal (Grey)

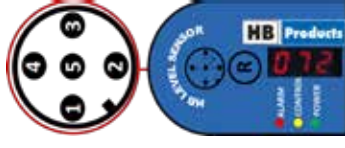


Sensor with ISO 4400 connector



Sensors with direct valve control and analog output

Sensors with an output cable can control a valve directly. Three different versions exist /C for modulating valve /S for stepper motor /PWM for pulse modulating valve



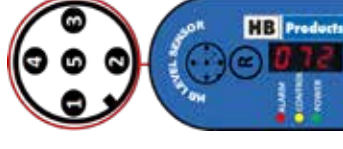
- 1: +24V DC or 24V AC (Brown)
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- 5: Run-in signal (Grey)



ATEX/IECEX approved sensors with IEC 61076-2-101 M12 plug

Most of the 24V sensors are available in an ATEX/IECEX approved version. The switch has a two-wire analog output which will grow linear to the level from 4-20 mA. The switch has settings which can be changed when connecting it to the HB Tool.

The sensor is used together with a barrier to comply with ATEX/IECEX requirements.



- 1: +24V DC
- 2: Not used
- 3: Not used
- 4: Analog output
- 5: Not used

