

Data sheet: HBSR for NH3, Water & Alcohol & HBSR-HFC for HFC, HFO, CFC

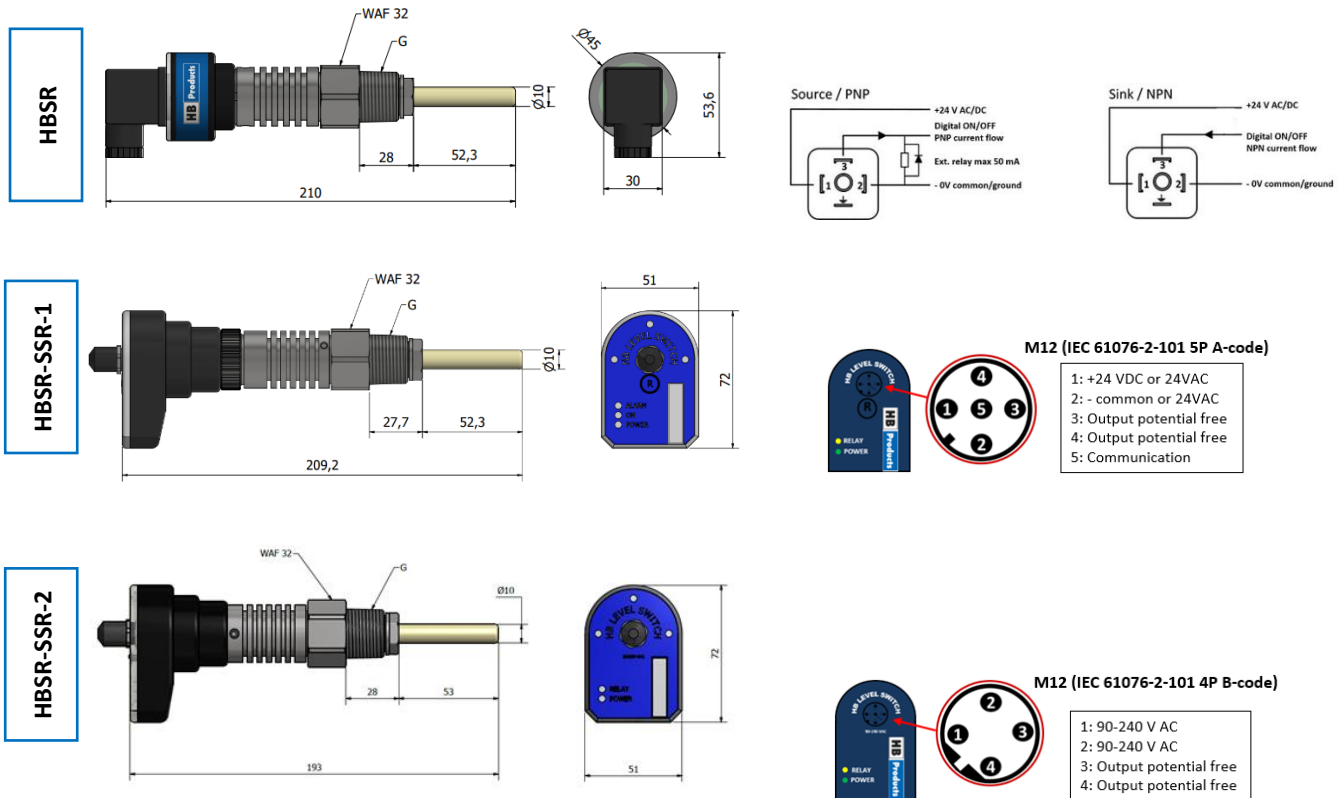
These three Level Switches are designed for detecting ammonia and brine refrigerants. The sensors are engineered to withstand high pressure and low temperatures, making it ideal for industrial applications.



	HBSR HBSR-HFC	HBSR-SSR-1/IP HBSR-HFC-SSR-1/IP	HBSR-SSR-2 HBSR-HFC-SSR-2
Power supply			
Voltage	24V AC/DC + 10%	24V AC/DC + 10%	90-240V AC
Max. current	200 mA	600 mA	10 mA
Plug connection	ISO 4400	M12, 5 pins – IEC 61076-2-101 A code	M12 4 pins – IEC 61076-2-101 B code
Output			
Digital output	PNP/NPN	Solid-state 24V	Solid-state 240V AC
Contact function	NC or NO	NC or NO (configurable)	NC or NO
Environmental conditions			
Ambient temperature	-30°C to 50°C (-22°F to 122°F)	-60°C to 50°C (-76°F to 122°F)	-30°C to 50°C (-22°F to 122°F)
Liquid temperature *Depending on the physical conditions of the liquid.	-40°C to 80°C (-40°F to 176°F)	-60°C to 80°C (-67°F to 176°F)	-30°C to 80°C (-22°F to 176°F)
Max. pressure	100 bar (1450 psi)		
Protection degree	IP54 *For outdoor and low temperature application use low temperature type	IP65	IP54 *For outdoor and low temperature application use low temperature type
Connector	V track - set screw	Union	V track - set screw
Vibrations	IEC 60068-2-6 (4g)		
Mechanical specifications			
Thread connections	3/4" or 1/2" NPT and BSPP		
Size	See the dimensional drawing below		
Material - mechanical part	AISI 304 / PTFE		
Material - electronic part	Nylon 6 (PA) / PC / AISI 304		
House type	Circular	Oval type front	Oval type front
Approvals			
EMC test	EN 61000-2		
Indication			
LED indication when detecting	4x red	3x green	3x green
Configurations			
Configuration	HB-tool with adaptor	HB Tool	Pre-set

Scope of supply			
Package includes	Mechanical and electrical part ISO4400 screw connector	Mechanical and electrical part 5 m cable with M12 plug A code	Mechanical and electrical part 5 m cable with M12 plug B code

Dimensional drawing



For any inquiries or further information, please don't hesitate to contact us at info@hbproducts.dk.

HB Products A/S
Bøgekildevej 21
DK-8361 Hasselager
Phone: +45 87 47 62 00
www.hbproducts.dk