

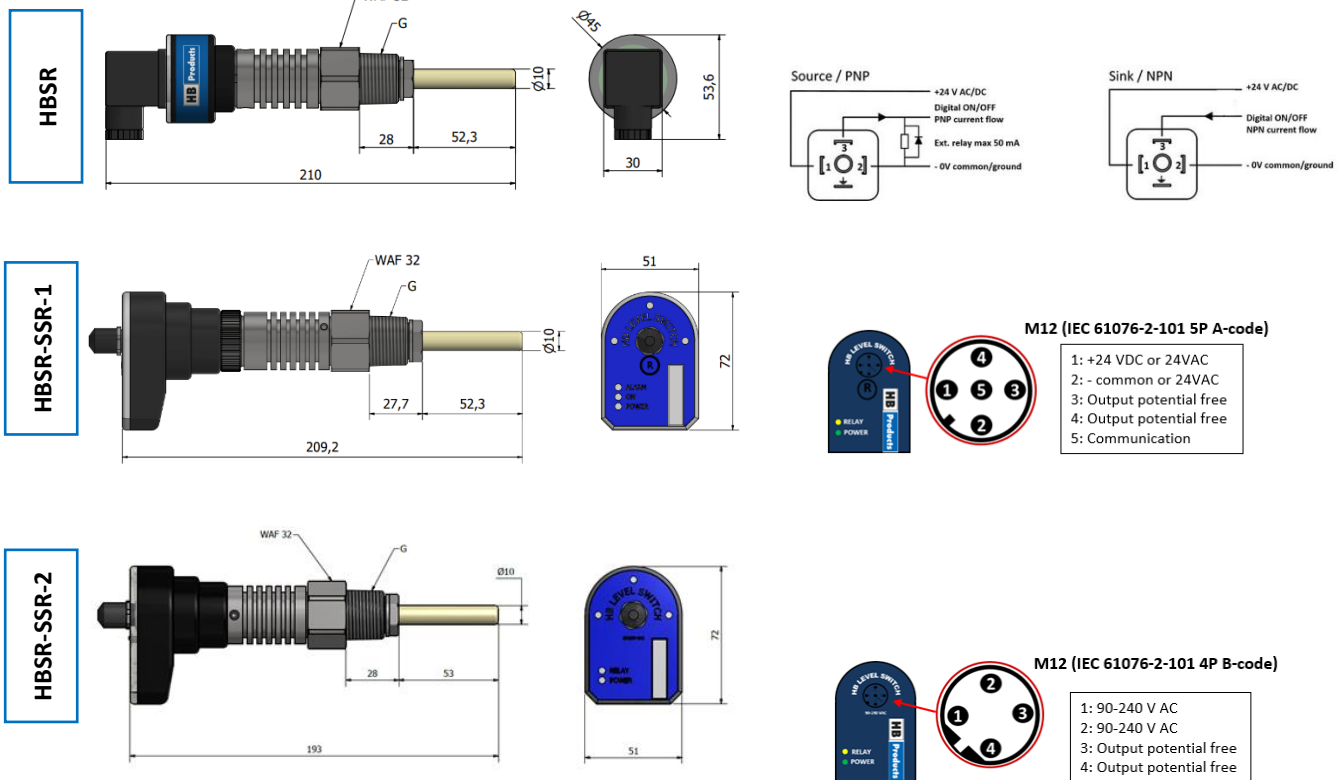
Data sheet: HBSR-HFC for HFC, HFO & CFC

These three Level Switches are designed for detecting common HFC, HFO, and CFC refrigerants in refrigeration systems. It is typically installed in refrigerant vessels, pump separators, economizers, or heat exchangers.



	HBSR-HFC	HBSR-HFC-SSR-1/IP	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	M12, 4 pins – IEC 61076-2-101	M12, 5 pins – IEC 61076-2-101	M12, 5 pins – IEC 61076-2-101
Output			
Transistor output	PNP/NPN	Solid-state	Solid-state
Contact function	NC or NO	NC or NO	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 50°C (-40°F to 122°F)	-60°C to 80°C (-76°F to 176°F)	-30°C to 80°C (-22°F to 176°F)
Max. pressure	100 bar (1450 psi)	100 bar (1450 psi)	100 bar (1450 psi)
Protection degree	IP54 *For outdoor and low temperature application use low temperature type with built-in heater	IP65	IP54 *For outdoor and low temperature application use low temperature type with built-in heater
Vibrations	IEC 60068-2-6 (4g)	IEC 60068-2-6 (4g)	IEC 60068-2-6 (4g)
Mechanical specifications			
Thread connections	3/4" or 1/2"		
Size	See the dimensional drawing below		
Material - mechanical part	AISI 304 / PTFE		
Material - electronic part	Nylon 6 (PA)		
House type	Front		
Approvals			
EMC test	EN 61000-2	EN 61000-2	EN 61000-2
Indication			
LED indication	Visual signal when refrigerant is detected	Visual signal when refrigerant is detected	Visual signal when refrigerant is detected
Configurations			
Configuration	HB-Tool	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	Mechanical and electrical part 5 m cable with M12 plug

Dimensional drawing



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

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