

Safety temperature limiter STB

For monitoring temperatures in heating water, hot water systems and other applications in heating, ventilation and airconditioning systems. When the setpoint temperature is reached, the 1-pin changeover contact (SPDT) is switched and mechanically locked.

Manufacturer: JUMO GmbH & Co. KG Fulda - Deutschland Item No.: 603070/0070-..

Technical data sheet







Type Over	view
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	Туре	Output signal temperature switch	Additional features	Capillary	
	EXT-J-00734647	Changeover	Manual reset	1 m	
echnical data					
Electrical da	Electrical connection Cable entry		Spring loaded terminal max. 2.5 mm ²		
			Cable gland with strain cable Ø612 mm	relief M20x1.5 mm, fo	
Functional da	ta Application		Air/Water Perature Changeover AC 230 V 16 (2.5) A @ Switch position 1-2 AC 230 V 2 (0.4) A @ Switch position 1-4 min. switching current 100 mA @ AC / DC 24 V		
	Output signal pass	ive temperature			
	Output signal swite	ch note			
	Output signal tem	Output signal temperature switch note		AC 230 V 16 (2.5) A @ Switch position 1-2 AC 230 V 2 (0.4) A @ Switch position 1-4 DC 230 V 0.25 A	
	Switching reliabilit	у	min. switching current 100 mA @ AC / DC 24 V		
Measuring da	Measured values Measuring range temperature		Temperature		
			70130°C		
	 Setting range Tem	Setting range Temperature Accuracy temperature passive			
				+0K / -12K (lower half, 70100°C) +0K / -5K (upper half, 100130°C)	
Materia	ls Cable gland		PA6, black		
	Housing		Bottom: PA (RAL 7001, silver grey) Cover: ABS with inspection glass (PMMA) Seal: NBR		
	Capillary	Capillary		Copper	
Safety data	ta Ambient humidity		Max. 95% RH, non-cond	ensing	
	Ambient temperat	Ambient temperature		080°C	
	Fluid temperature	· · · · · · · · · · · · · · · · · · ·		Up to max. 155°C	
	<u>-</u>	Storage temperature		-3080°C	
	EU Conformity		CE Marking		
	Certification IEC/EI	V	DIN EN 60730-1 and DIN	N EN 14597	
	Degree of protection		IP54		
	Degree of protection		IP protection with mour	nted sealing elements	
	Pressure equipme		CE according to 2014/68		
	Quality Standard		ISO 9001		



Technical data sheet

EXT-J-00734647

Safety data

Mode of operation

Type 2BFHKLNPV

Safety notes



This device has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application. Unauthorised modifications are prohibited. The product must not be used in relation with any equipment that in case of a failure may threaten humans, animals or assets.

Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.

The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.



During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

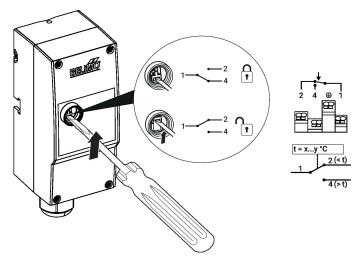
Remarks

Switching function

If the temperature on the sensor exceeds the setpoint value, the changeover is activated by the transmission mechanics and the electrical circuit is opened resp. closed and the changeover is mechanically locked.

The unlocking difference is about 10K. If the temperature falls below the selected setpoint value then the changeover can be manually unlocked again.

Reset function



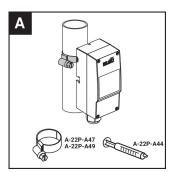


Installation notes

Installation situation

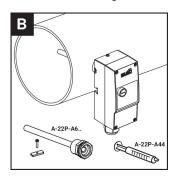
The safety temperature limiter can be installed in four different ways.

Pipe contact mounting



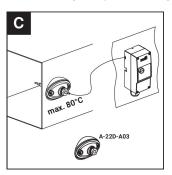
The tightening strap is included in the scope of delivery

Thermowell mounting



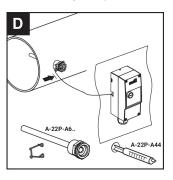
The thermowell A-22P-A6... is available as an optional accessory

Wall mounting with probe in flange



The A-22D-A03 flange is available as an optional accessory

Wall mounting with probe in immersion sleeve



The thermowell A-22P-A6... is available as an optional accessory

Scope of delivery

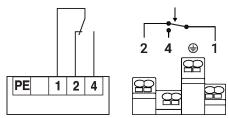
Fixing strap for pipes from Ø15...100 mm



Accessories

Optional accessories	Description	Туре
	Syringe with thermal paste	A-22P-A44
	Fixing strap, for pipes up to Ø 40110 mm [1.64.3"]	A-22P-A47
	Fixing strap, for pipes up to Ø 40250 mm [1.69.8"]	A-22P-A49
	Mounting flange for sensor probe 6 mm, up to max. 120°C [248°F], Plastic	A-22D-A03
Recommended accessories water	Description	Туре
	Thermowell pocket kit (fabricated) Brass nickel-plated, 100 mm, G1/2", SW22	A-22P-A61
	Thermowell pocket kit (fabricated) Brass nickel-plated, 150 mm, G1/2", SW22	A-22P-A62
	Thermowell pocket kit (fabricated) Brass nickel-plated, 200 mm, G1/2", SW22	A-22P-A63
	Thermowell pocket kit (fabricated) Stainless steel, 100 mm, G1/2", SW22	A-22P-A64
	Thermowell pocket kit (fabricated) Stainless steel, 150 mm, G1/2", SW22	A-22P-A65
	Thermowell pocket kit (fabricated) Stainless steel, 200 mm, G1/2", SW22	A-22P-A66

Wiring diagram



If the capillary leaks, the electrical circuit 1-4 is permanently closed. Unlocking is no longer possible.



Dimensions

