

Safety temperature limiter STB

For monitoring temperatures in heating water, hot water systems and other applications in heating, ventilation and air conditioning 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.: 60730/0070-5-059-..

Technical data sheet







Type Overview

Туре	Output signal temperature switch	Additional features	Capillary
EXT-J-00734645	Changeover	Manual reset	1 m

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Technical Data				
Electrical data	Electrical connection Cable entry		Spring loaded terminal block max. 2.5 mm ² Cable gland with strain relief M20x1.5 mm, for cable Ø612 mm	
Functional data	Output signal passive temperature Output signal temperature switch note		Changeover	
			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 reliability		min. switching current 100	mA @ AC / DC 24 V
	Application		Air/Water	
Measuring data	Measuring values		Temperature	
	Measuring range tem	perature	5080°C	
	Setting range Tempera	ature	5080°C	
	Accuracy temperature	passive	+0K / -8K (lower half, 5065°C) +0K / -5K (upper half, 6580°C)	
Materials	Cable gland		PA6, black	
	Housing Bottom: PA (RAL7001, silver grey) Cover: ABS with inspection glass (PM Seal: NBR			
	Capillary		Copper	
Safety data	Ambient humidity		Max. 95% r.H., non-conde	nsing
	Ambient temperature		080°C	
	Fluid temperature		Up to max. 110°C	
	Storage temperature		-3080°C	
	EU Conformity		CE Marking	
	Certification IEC/EN		DIN EN 60730-1 and DIN E	N 14597
	Degree of protection I	EC/EN	IP54	
	Degree of protection r	note	IP protection with mounte	d sealing elements
	Pressure equipment d	irective	CE according to 2014/68/E	U
	Quality Standard		ISO 9001	
	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.

EXT-I-00734645

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.

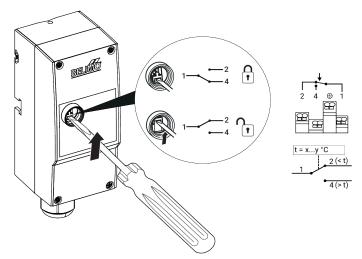
Remarks

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

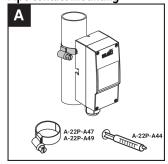


Installation notes

Installation situation

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

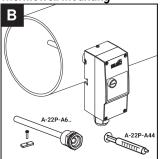
Pipe contact mounting



The tightening strap is included in the scope of delivery

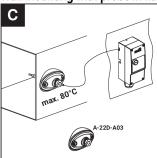


Thermowell mounting



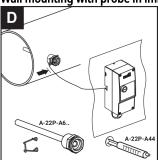
The thermowell A-22P-A6... is available as an optional accessory

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

Tightening strap for pipes from Ø15...100 mm

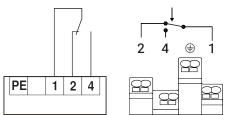
Accessories Optional accessories Description Type Mounting flange for sensor probe 6 mm, up to max. 120°C [248°F], Plastic A-22D-A03 Syringe with thermal paste A-22P-A44 Fixing strap, for pipes up to Ø 40...110 mm [1.6...4.3"] A-22P-A47 Fixing strap, for pipes up to Ø 40...250 mm [1.6...9.8"] A-22P-A49 Recommended accessories water Description Type 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

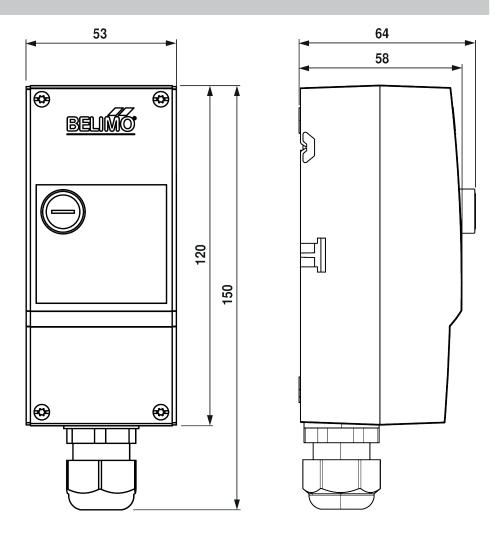


Wiring diagram



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

Dimensions



Туре	Weight
EXT-J-00734645	0.3 kg