

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





ne Overview

Type Overview					
	Туре	Output signal temperature switch	Additional features	Capillary	
	EXT-J-0073464	5 Changeover	Manual reset	1 m	
echnical data					
Electri	cal data Electrical conr	nection	Spring loaded terminal	max. 2.5 mm²	
	Cable entry		Cable gland with strain relief M20x1.5 mm, fo cable Ø612 mm		
Functio	nal data Application		Air/Water		
	Output signal	passive temperature	Changeover		
	Output signal	AC 230		230 V 16 (2.5) A @ Switch position 1-2 230 V 2 (0.4) A @ Switch position 1-4 n. switching current 100 mA @ AC / DC 24 N	
	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 relia	ability	min. switching current 100 mA @ AC / DC 24 \		
Measuri	i ng data Measured valu	ues	Temperature		
	Measuring ran	nge temperature	5080°C		
	 Setting range	Temperature	5080°C		
		perature passive	+0K / -8K (lower half, 5065°C) +0K / -5K (upper half, 6580°C)		
N	laterials Cable gland		PA6, black		
	Housing		Bottom: PA (RAL 7001, s Cover: ABS with inspect Seal: NBR	7 7	
	Capillary		Copper		
Saf	ety data Ambient humi	idity	Max. 95% RH, non-condensing		
	Ambient temp	perature	080°C		
	Fluid tempera	ture	Up to max. 110°C		
	Storage temp	erature	-3080°C		
	EU Conformity	/	CE Marking		
	Certification II	EC/EN	DIN EN 60730-1 and DII	N EN 14597	
	Degree of pro	tection IEC/EN	IP54		
	Degree of pro		IP protection with mour	nted sealing elements	
	Pressure equi	pment directive	CE according to 2014/68	8/EU	
	Quality Standa	ard	ISO 9001		



Technical data sheet

EXT-J-00734645

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.

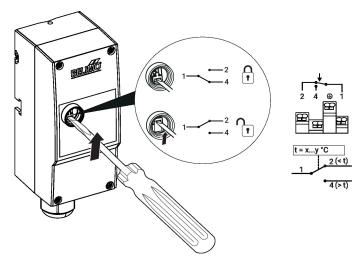
Remarks

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



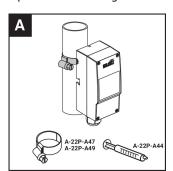


Installation notes

Installation situation

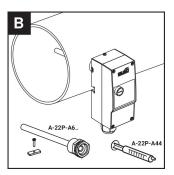
The safety temperature limiter can be installed in four different ways.

Pipe contact mounting



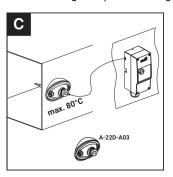
The tightening strap is included in the scope of delivery

Thermowell mounting



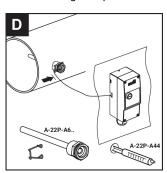
The thermowell A-22P-A6... is available as an optional accessory

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

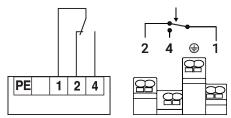
Fixing strap for pipes from Ø15...100 mm



Accessories

Optional accessories	Optional accessories Description	
	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"]	
	Mounting flange for sensor probe 6 mm, up to max. 120°C [248°F], Plastic	A-22D-A03
Recommended accessories water	water Description	
	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

