

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

EXT-J-00734647





Type Overview

	Туре	Output signal temperature switch	Additional features	Capillary
	EXT-J-00734647	Changeover	Manual reset	1 m
echnical data				
Electrical data	Electrical connection		Spring loaded terminal max. 2.5 mm ²	
	Cable entry		Cable gland with strain relief M20x1.5 mm, fo cable ø612 mm	
Functional data	Application		Air Water	
	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 reliability		Min. switching current 100 mA @ AC / DC 24	
Measuring data	Measured values		Temperature	
·	Measuring range temperature		70130°C	
	Adjustment range temperature		70130°C	
	Accuracy temperature passive		+0K / -12K (lower half, 70100°C) +0K / -5K (upper half, 100130°C)	
Materials	Cable gland		PA6, black	
	Housing		Bottom: PA (RAL 7001, silver grey) Cover: ABS with inspection glass (PMMA) Seal: NBR	
	Capillary		Copper	
Safety data	Degree of protection IEC/EN		IP54 IP protection with mounted sealing elements	
	Pressure equipment directive		CE according to 2014/68/EU	
	EU Conformity		CE Marking	
	Certification IEC/EN		DIN EN 60730-1 and DIN EN 14597	
	Quality Standard		ISO 9001	
	Type of action		Type 2BFHKLNPV	
	Ambient humidity		Max. 95% RH, non-condensing	
	Ambient temperature		080°C [32175°F]	
	Fluid temperature		Up to max. 155°C	



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.

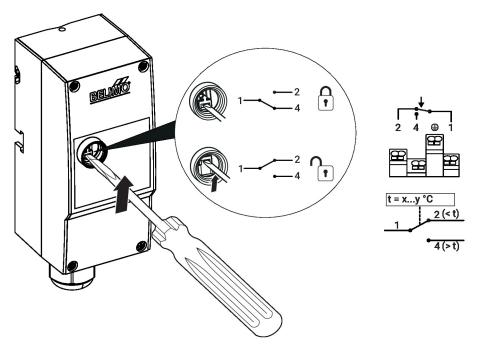
Remarks

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





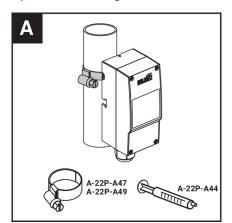
Installation notes



Installation situation

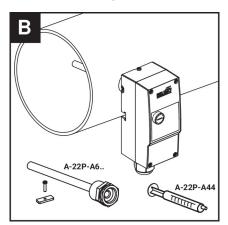
The safety temperature limiter can be installed in four different ways.

Pipe contact mounting



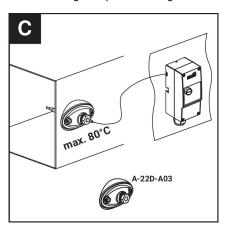
The tightening strap is included in the scope of delivery

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

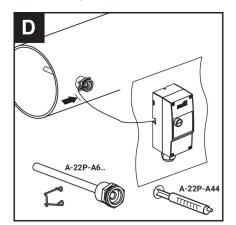
A-22P-A64

A-22P-A65

A-22P-A66



Wall mounting with probe in immersion sleeve



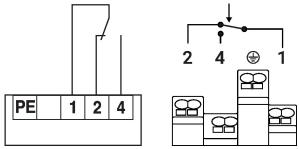
The thermowell A-22P-A6... is available as an optional accessory

Parts included

Fixing strap for pipes from ø15...100 mm

ssories		
Optional accessories	Description	
	Syringe with thermal paste	A-22P-A44
	Fixing strap, for pipes ø20110 mm [0.84.3"]	A-22P-A47
	Fixing strap, for pipes ø20250 mm [0.89.8"]	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	
	Thermowell kit (fabricated) Brass nickel-plated, 100 mm, G 1/2", SW22	A-22P-A61
	Thermowell kit (fabricated) Brass nickel-plated, 150 mm, G 1/2", SW22	A-22P-A62
	Thermowell kit (fabricated) Brass nickel-plated, 200 mm, G 1/2", SW22	A-22P-A63

Wiring diagram



Thermowell kit (fabricated) Stainless steel, 100 mm, G 1/2", SW22

Thermowell kit (fabricated) Stainless steel, 150 mm, G 1/2", SW22

Thermowell kit (fabricated) Stainless steel, 200 mm, G 1/2", SW22

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



Dimensions

