Expansion thermometer Safety temperature limiter Model SB15

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for further approvals see page 5

Applications

- Temperature monitoring for water, oil and gas
- Compressors
- Steam generators
- Temperature controlling and limiting device for heat generation plants

Special features

- High switching reliability
- Temperature display and safety limiter in one instrument
- Switch-off after measuring line breakage



Safety temperature limiter, model SB15

Description

In the event of any faults, the safety temperature limiter model SB15 puts the system into a safe operating condition.

The shifting disk, which is arranged on the pointer shaft, actuates the switching operation at the micro switch when reaching the non-adjustable switch point or in case of measuring line breakage and locks the current status.

A reset is possible with a tool only after a temperature decrease by approx. 3 % of the scale range, if there is no measuring line breakage.





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Standard version

Nominal size in mm 60, 72 x 72

Indication accuracy Class 2 per DIN EN 13190

Scale range 0 ... 400 °C

Permissible temperature Ambient: -40 ... +60 °C

Dial Aluminium, white, black lettering

Measuring principle Bourdon tube system

Contact Micro switch

Contact design 1 fixed changeover switch

Switch rating 5 A, AC 250 V

Connection, electrical 0.8 x 6.3 mm blade terminal or terminal connection **Case** Plastic, black

Mounting option Panel mounting with mounting bracket

Ingress protection Case IP 53, terminals IP 00

CapillaryPlastic coatedmax. +120 °CCopper braidedmax. +350 °CStainless steelmax. +400 °C

Length of the measuring line Max. 5 m

Measuring line outlet Lower back mount

Options

- Other nominal sizes NS 80, 100, 96 x 96
- Case sheet steel
- Panel mounting flange
- Protection cap IP 51 or IP 54
- Switch rating 10 A at AC 250 V
- Other connection designs
- Designs per DIN EN ISO 13485, medical applications on request

Special designs

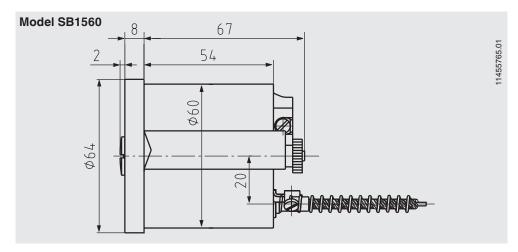
Temperature controlling and limiting device for heat generation plants Design tested in accordance with DIN EN 14597 and pressure equipment directive 97/23/EC/VdTÜV

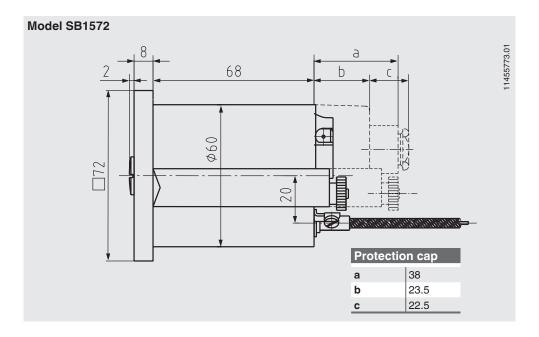
Permissible temperature sensors

Temperature sensor			Stem		Operating media					
Model	Ø in mm	Material	Model	Material	Water p = 16 bar T = 150 °C	Oil p = 32 bar T = 350 °C	Air p = 16 bar T = 200 °C			unpressured T = 400 °C
SF91	6	Brass	-	-	x					
SF91	6	Brass	SH16	Brass	х					
SF91	6	Brass	SH16	1.4571	x		x		x	
SF91	8	Brass	-	-	x		x		x	
SF91	8	Brass	SH16	Brass	x		x		x	
SF91	8	Brass	SH16	1.4571	x	x	x	x	x	
SF91	10	Brass	-	-	x		x		x	
SF91	6	1.4571	-	-	x	x	x	x	x	x
SF91	6	1.4571	SH16	1.4571	x	x	x	x	x	x
SF91	8	1.4571	-	-	x	x	x	x	x	x
SF91	8	1.4571	SH16	1.4571	x	x	x	x	x	x
SF91	10	1.4571	-	-	x	x	x	x	x	x

Dimensions in mm

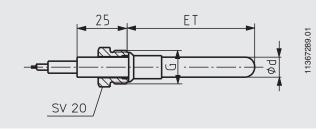
Standard version





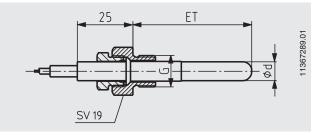
Connection designs

Connection design SF91 / SV20 with sealing cone



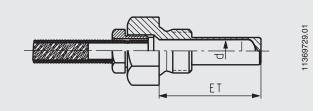
SV20 with M14 x 1.5, M16 x 1.5, M18 x 1.5 G $\frac{1}{4}$ B, G $\frac{3}{6}$ B, G $\frac{1}{2}$ B Copper alloy, stainless steel 1.4571 Insertion length ET = variable Stem diameter d = 6, 8, 10 mm

Connection design SF91 / SV19 with loose threaded connection



SV19 with M14 x 1.5, M16 x 1.5, M18 x 1.5, M30 x 1.5 G $\frac{1}{4}$ B, G $\frac{3}{8}$ B, G $\frac{1}{2}$ B, G $\frac{3}{4}$ B, G 1 B Copper alloy, stainless steel 1.4571 Insertion length ET = variable Stem diameter d = 6, 8, 10 mm

Connection design SF91 / SH16 with protective sleeve



SH16 with G $\frac{3}{8}$ B, G $\frac{1}{2}$ B, G $\frac{3}{4}$ B Copper alloy, stainless steel 1.4571 Insertion length ET = variable Stem diameter d = 6, 8, 10 mm

Approvals

- UL, safety (e.g. electr. safety, overpressure, ...), USA
- GOST, metrology/measurement technology, Russia
- CRN, safety (e.g. electr. safety, overpressure, ...), Canada

Certificates

- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)

Approvals and certificates, see website

Ordering information

Model / Nominal size / Scale range / Contact design / Switching points / Measuring line / Length of the measuring line / Connection design / Options

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