



STB+TWF

## STB

### Temperature monitors, temperature limiters, type-tested

Temperature monitors and temperature limiters are tested according to Pressure Equipment Directive 97/23 EC, meet the requirements of DIN EN14597 and can thus be used for heating systems according to DIN EN12828, for steam and hot water systems and for district heating

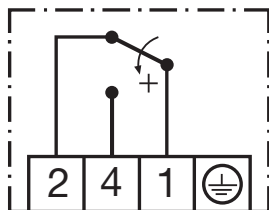
systems. The devices with safety function (STW, STB) are self-monitoring, i.e. in the event of breakage or leaks in the measuring system the circuit is opened and the system is switched off towards the safe side.

#### Technical data

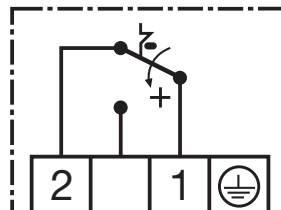
<b>Body</b>	Diecast aluminium with plastic cover.
<b>Immersion tube</b>	Brass G 1/2", included with product Stainless steel G 1/2", order separately. Type T4NSTF or T5NSTF, see Product Summary
<b>Permitted ambient temperature</b>	+80°C at the switching head
<b>Switching point accuracy</b>	(in upper third of scale) for TW, STW, STB: ± 5 % for TR: ± 1.5 % (in % of scale range)
<b>Switching differential</b>	(in % of scale range) for TR, TW: 3–4 % for STW, STB: 4–6%
<b>Lead seal</b>	The cover of the switching device can be lead sealed so that the internal settings of the limiter switching points are no longer accessible after sealing.
<b>Switching capacity</b>	10 (2) A, 250 VAC
<b>Degree of protection</b>	IP 54

#### Connection schemes:

In devices with a dual function there are 2 switching elements. Pay attention to the function of the relevant switch when connecting.



TW, STW, TR



STB

Type	STW1F	STB1F	STW+TRF	STB+TWF	STB+TRF
Function	Safety temperature monitor	Safety temperature limiter	Safety temperature monitor and controller	Safety temperature limiter and monitor	Safety temperature limiter and controller
Setting range	20 to 150 °C	60 to 130 °C	20 to 150 °C	30 to 110 °C	30 to 110 °C
Setting	internal	internal	STW internal TR external	STW internal TW internal	STB internal TR external
Controls accessible from outside	no	Reclosing button	Setting wheel for TR	Reclosing button	Reclosing button and setting wheel for TR
Contact	changeover	opener contact	2 x changeover	NC (STB) and changeover (TW)	NC (STB) and changeover (TR)
Reclosing lockout (internal)	no	yes	no	yes	yes
Max. temperature at sensor	175 °C	150 °C	175 °C	130 °C	130 °C
Immersion depth	150 mm	150 mm	150 mm	150 mm	150 mm
Permitted pressure, brass immersion tube	40 bar	40 bar	25 bar	25 bar	25 bar
Permitted pressure, stainless steel immersion tube	80 bar T4NSTF	80 bar T4NSTF	40 bar T5NSTF	40 bar T5NSTF	40 bar T5NSTF

Immersion wells, stainless steel, 1.4571, G1/2"

Temp. monitor, temp. limiter	Immersion depth	Type
STW1F STB1F	150mm	<b>T4NSTF</b>
STB+TWF STB+TRF STW+TRF	150 mm	<b>T5NSTF</b>