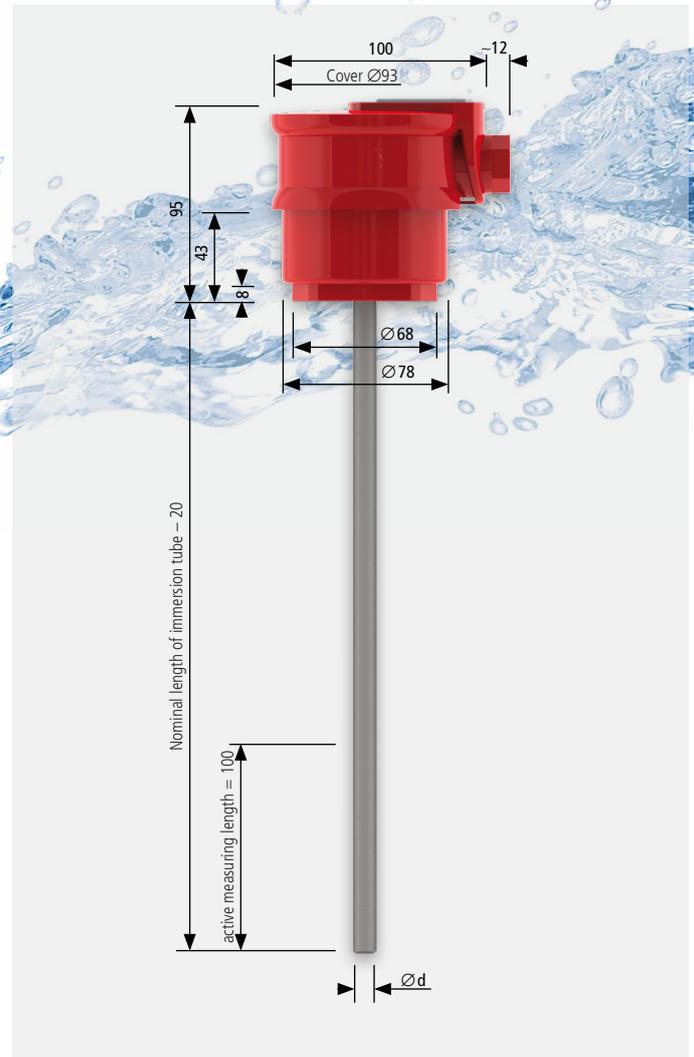# ROTKOPF Rod-Type Thermostat (STRu…)

The ROTKOPF rod-type thermostat offers a low-cost solution for controlling the temperature of a liquid, since the temperature sensor and the switching circuit are integrated in a single unit. Any change in the liquid temperature causes the fluid in the measuring system (capillary tube) to expand or contract and this moves the switch diaphragm. This, in turn, actuates a changeover contact which switches the heater on or off, as applicable.

The desired controlling temperature is set with a knob in the terminal casing.

Voltages greater than 230 V and/or powers greater than 2.3 kW must be switched with an external power relay.

The controller is normally equipped with the terminal casing BC ($\varnothing$ 93 mm), made of PP. This has the degree of protection IP 65 (jet-waterproof) to EN 60529.

In the case of extremely high temperatures (liquid temperature >80°C) or if the controller is exposed to strongly oxidant chemicals (such as chrome electrolyte or HNO_3 solutions) the terminal casing BC/L, made of PVDF, should be used.

ROTKOPF Rod-Type Thermostat (STRu…)

Specifications of the standard materials

Immersion-tube material	Code letter	$\varnothing$ d	Max. operating temp. (°C)
Stainless steel (Material No. 316TI)	B	11	100
Polypropylene (PP)	F	16	90
Polytetrafluorethylene (PTFE)	G	12	100
Polyvinyledene fluoride (PVDF)	L	16	100
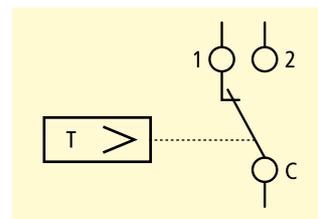
Electrical connection of controller

The mounting can be realized with the aid of the support HB (PP) or HB/L (PVDF), the mounting sleeve EM or the holding sleeve HM. Mounting is also possible with the aid of flanges or threaded nipples. The mounting wrench SB should be used for opening and closing the terminal casing.

Technical data of limiter STRu

Control range	0…120°C
Contacts	1 changeover contact
Switched power	max. 2.3 kW (10A/230V~)
Switching hysteresis	± 6 K
Minimum temperature change	2 K/min
Min. immersion tube nominal length	200 mm
Max. immersion tube nom. length	1000 mm

Temperature adjustment in the terminal casing

MAZURCZAK THERMOPROZESSE