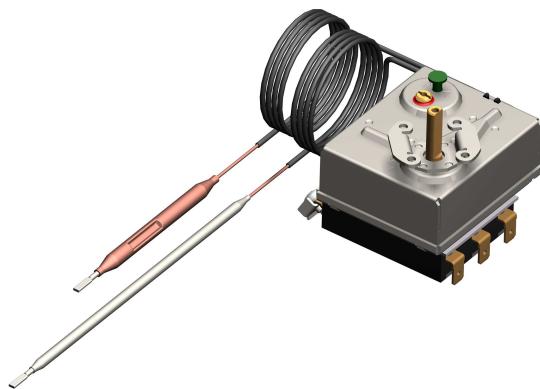


Combined control/limit and safety-limit thermostat

Three pole switch

RAC



Application

Combination of control/limit and safety-limit thermostat with capillary, for applications up to 350°C.

Features

- TR Electro-mechanical control thermostat , non-fail-safe
- TW Electro-mechanical limit thermostat , non-fail-safe
- STB Electro-mechanical safety limit thermostat, fail-safe. If cut-out temperature exceeded, circuit switches to OFF and stays at this position. Manual reset after sensing element has cooled by the switching differential
 - Approved to EN 60 730-1 / -2-9
 - Time factor of sensing element according to DIN EN 14597
 - Features of automatic action TR/TW: Type 1.B according to EN 60 730-1 / -2-9
 - Features of automatic action STB: Type 2.B.H.K.L according to EN 60 730-1 / -2-9
 - Degree of pollution: 2
 - Optional with test button to short-cut when checking STB cut-out point
 - RoHS-conform

Technical data

Switching system:

Nominal voltage range	AC 24...400 V	
Nominal current range	20 (3,3) A	
Service life at nominal load	100.000 operations 500 operations	
TR/TW		
STB		
Protection against electric shock	for incorporation in class I equipment	
Protection standard of housing	IP00 (EN60529)	
Oversupply category	II	
Range of application:	STB	TR/TW
Cut-out temperatures /		
Setting ranges: <i>(Maximum values, other ranges on inquiry)</i>	max. 350°C	0...320 °C
Max. sensing element temperature	> t _{max} + 25°C	
Ambient temperature at switching head	max. 125 °C (T125)	
Storage and transport temp.	-25...+60 °C	

Calibration:

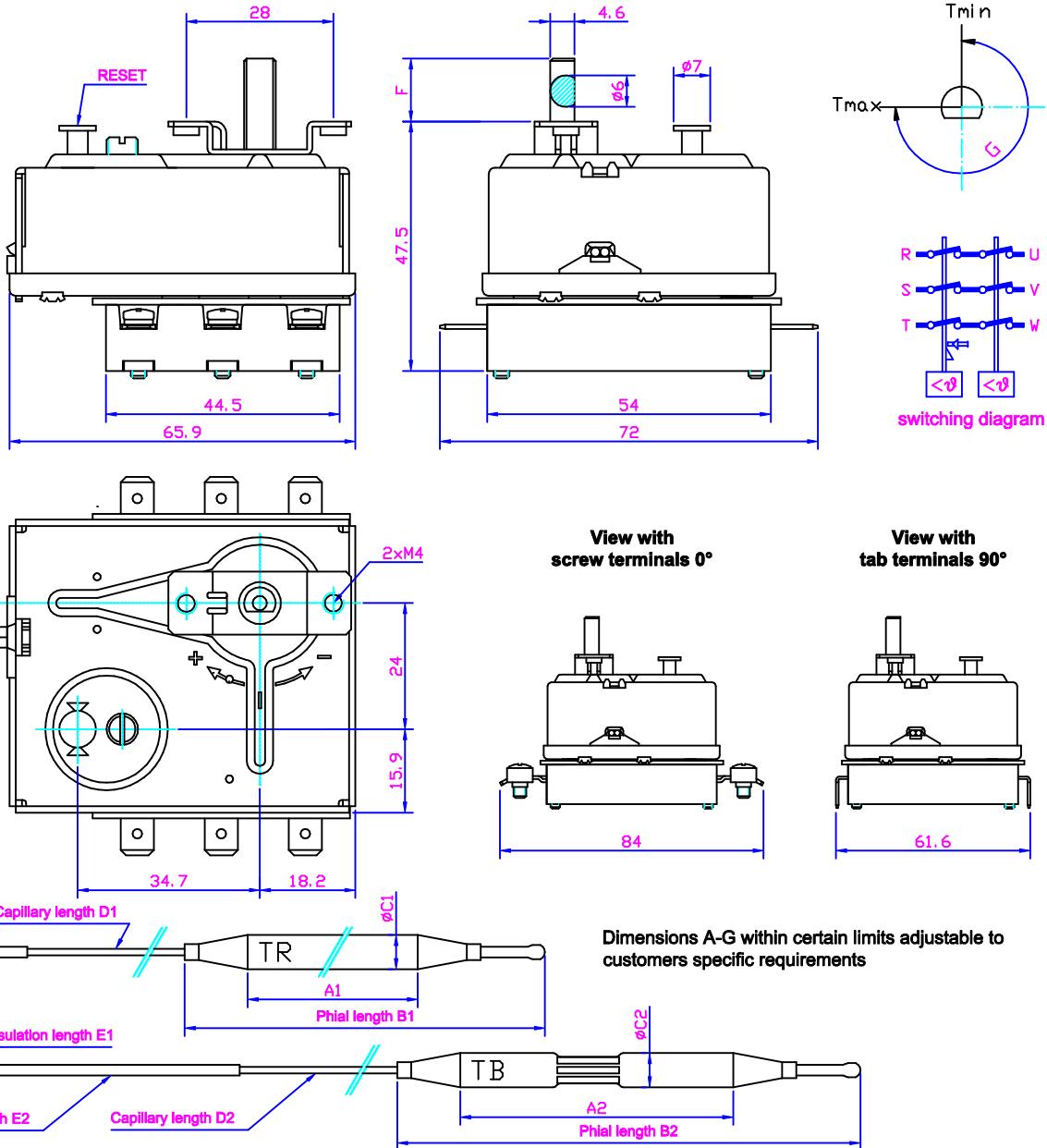
Calibrated for ambient temperature at switching head and capillary tube	23°C (Tu23 to DIN EN 14597)
Time factor in water / in oil	< 45 s / < 60 s

Design:

Switch system support (base isolation)	plastic, GWT 850°C
Capillary und sensing element	copper / stainless steel
Capillary length	300 ... 3500 mm
Diameter of sensing element	6, 6.5 mm (3, 4, 5, 7, 8, 9.5, 10mm)
Diaphragm	stainless steel
Connection terminals	
Screw terminals	M4x8
Tab terminals (free combination)	A6.3x0.8 0°, 45°, 60°, 90°

Examples

Setting range [°C]		Calibration tolerance [K]		Switching differential [K]		Max. phial temp. [°C]	
TR/TW	STB	TR/TW	STB	TR/TW	STB	TR/TW	STB
30...85	100	±3.2	0 - 6	~10	~10	115	130
0...100	110	±3.5	0 - 6	~12	~10	125	140
0...300	330	±10	0 - 16	~30	~30	340	370



Other products

- | | |
|---------|--|
| RAS | Three pole safety-limit thermostat |
| 88, 716 | Single pole control / limit thermostat |
| 89, 710 | Single pole safety-limit thermostat |

Rathgeber GmbH

Industriestraße 12 · D-35756 Mittenaar-Ballersbach
 Fon: +49 (0) 27 72 / 96 62-0 · Fax: +49 (0) 27 72 / 96 62-10
 Email: Info@Rathgeber-GmbH.de
 Internet: www.Rathgeber-GmbH.de