



- Very high cut off temperature (max. 450°C)
- Ceramic housing
- Good heat transfer due to homogeneous construction
- High temperature sensitivity
- Fast response time
- High contact rating

The TB 97 is based on reliable bimetal snap-disc technology and is specially designed for applications where high temperature is needed, with a maximum switching temperature of 450°C.

Even if the operating temperature is more than 400° C, the operating temperature is within a tolerance of \pm 5%. When temperature rises and will reach the fixed operating temperature, a contact system will open (NC) or close (NO) the electrical current circuit. After cooling down, the contact system will return to its original position (automatically reset function). Within its nominal power condition, the limiter TB 97 works independent from any current supply.

Typical applications:

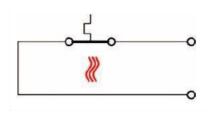
- Electrical oven
- Heating elements
- Barbecue equipment
- Irons

- Industrial usage
- Welding machines
- Soldering machines

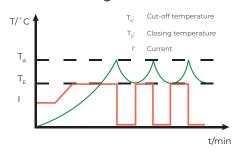
Technical Specifications					
Switching temperature	180°C - 450°C	180°C - 350°C			
Power capacity	10A (230VAC); 6A (400VAC)	13A (120VAC)			
Dielectric strenght	3.000 V	2.500 V			
Switching cycles	10.000	10.000			
Contact resistance	≤ 50 mΩ	≤ 50 mΩ			
Toff	in 5 Kelvin steps, ±5%, Differential 50200°K, ±20k, depending on T off, special hysteresis on request				
Indication of purpose	operating temperature limiter				
Device type	Electrical control device to be built into an end product				
Features of automatic action	1B accordin	1B according to VDE standard 60730			
Pollution degree	2				
Max. Ambient temperature	400°C				
Dimensions	L 27,5mm x B15,5mm x T 12,5mm				
Approvals		Standard 60730-1; 2 - 9, VDE certificate 131955, conform to RoHS/REACH			
, Approvate		UL File E96862 - Switching temperature limited to 180 °C - 350 °C			



Circuit diagram



Functional diagram



Dimension drawing (TB97 standard)

Attachment types





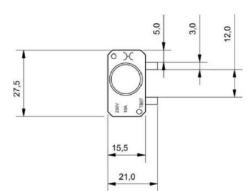
..1..







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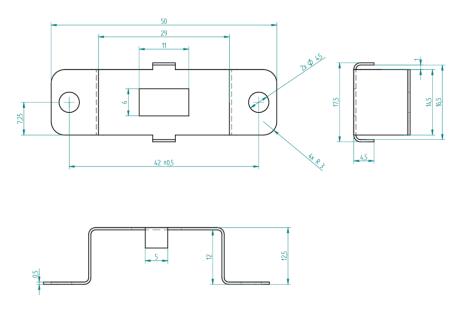






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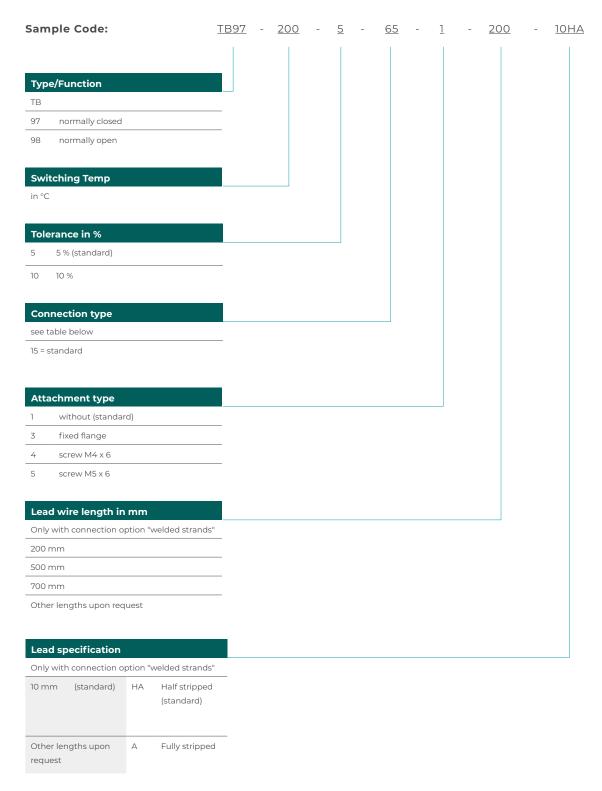
Accessories - Mounting bracket 506010





Ordering information

(Please use the characters in the chart below to construct your product code.)



Custom options on request.



Connection configuration

Connection orientation

Connection type	è		_4		
Blank contact	1			Standard	
FS 6,3 x 0.8 straight	2				
FS 6,3 x 8,8 90° angle	3				
SA M3 straight	4				
SA M3 90° angle	5				
welded strands	6	·	·		

Connection type	Temperature limit				
Blank contact (1)	to 450 °C				
Flat connector (2, 3)	to 350 °C				
Screw connector (4, 5)	to 350 °C				
Welded strands (6)	to 450 °C				