

Thermal switch C2B (16A)

The type C2B thermal switch is a very reliable temperature limiter with a long service life. It opens its two bimetal-based contact systems quasi-synchronously when the temperature rises at the preset setpoint. After the thermal switch has cooled down, its contact systems can be manually reset to the original switching condition.

The main areas of application for this type of thermal switch are primarily applications for tempering of water, that require a two-pole switch-off. However, this thermal switch can also be used for any application that requires a two-pole switch-off.

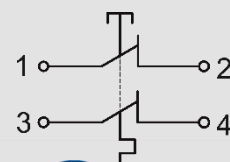
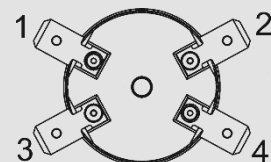
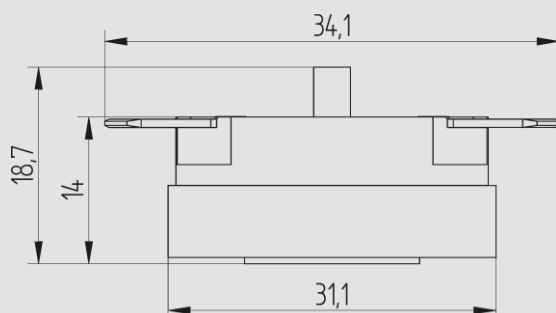


Benefits:

- Two potential-separated contact systems
- Quasi-synchronised switching behaviour
- Short switching and bouncing times
- High repeat accuracy
- High level of repeat accuracy
- Low tolerance up to +/-5K

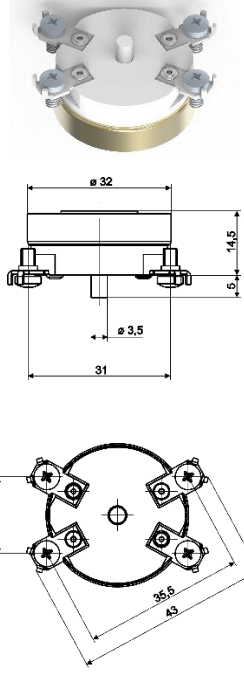
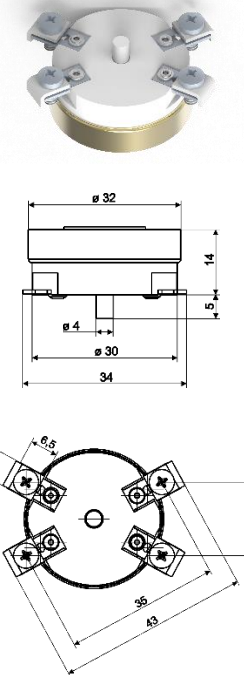
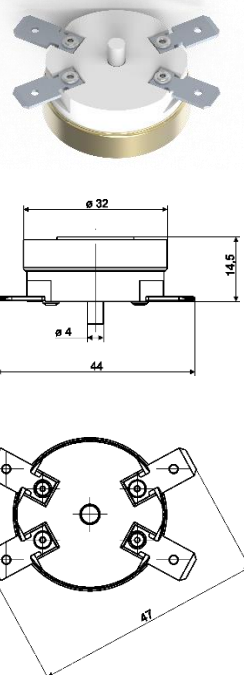
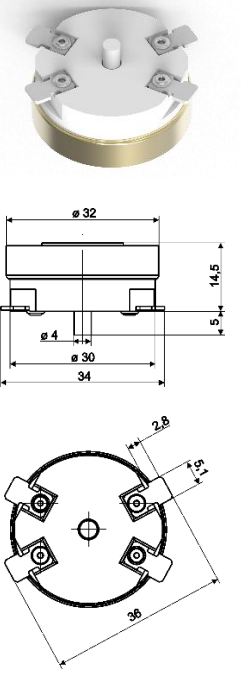
Housing material	Ceramics
Reset function	manually
Rated voltage (DC on request)	400VAC
Rated current ohmsch per switching path (DC on request)	16A
Switching cycles	1.000
Isolation Base/ operation V_{eff} , 50Hz	2,5kV / 0,88kV
Switching temperature	-25 bis 200°C
Tolerance range (other values on request)	±5K, ±8K, ±10K
Contact resistance AgNi10	≤25mΩ
min. Rate of change of the test temperature	0,5K/min
Permissible ambient temperature	-40 bis 200°C
Ingress Protection rating	IP40
Product standard	DIN EN 60730

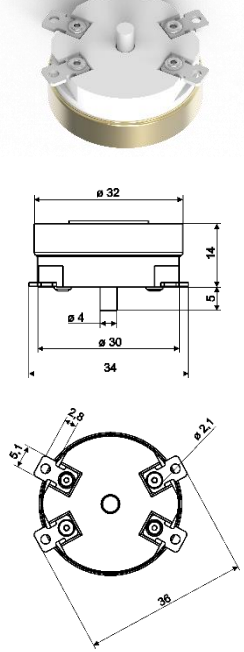
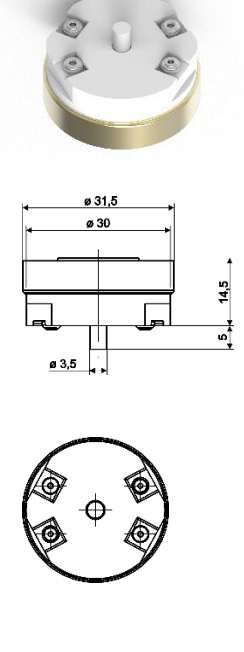
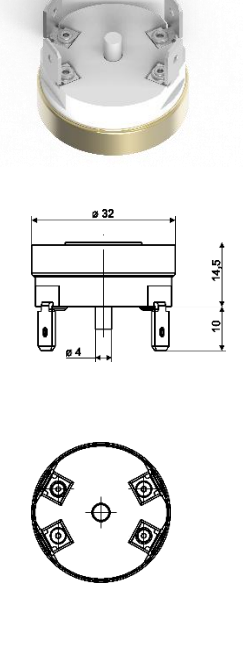
Dimensions / Circuit diagram



Variants

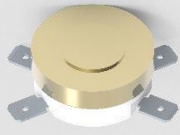
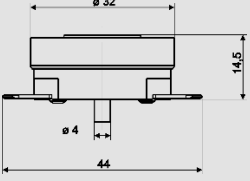
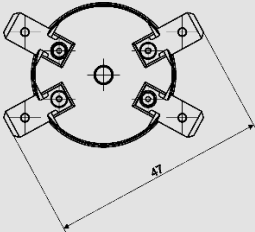
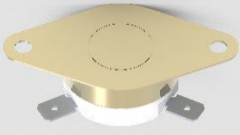
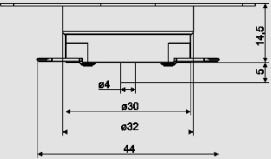
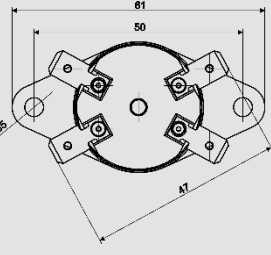

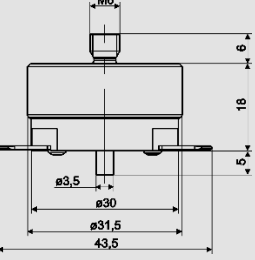
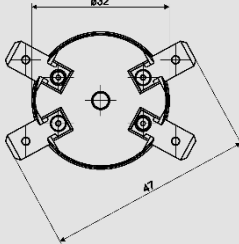
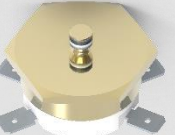
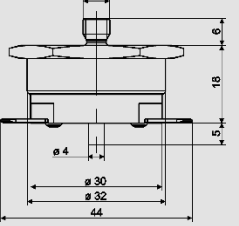
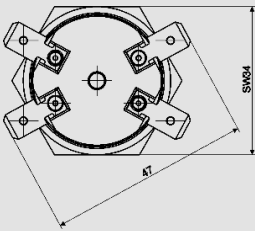
Connection technology

C2B 004	C2B 504	C2B 104	C2B T04
			
<p>Screw connection for cross-sections up to 1,5mm²</p>	<p>Screw connection for cross-sections up to 2,5mm²</p>	<p>Blade terminal 6,3 x 0,8 mm</p>	<p>Welding connection</p>

C2B A04	C2B P04		C2B
		<p>The basic construction forms are extensively individualizable</p> <p style="text-align: center;">➔</p> <p>Bending the connections</p> <p>Fabrication with Braids</p> <p>Fabrication with cables</p> <p>different connector</p>	
<p>Solder connection</p>	<p>Without connection (BonBon)</p>		<p>Connection bend (example 6,3 x 0,8 90°)</p>

Variants

Caps/fastenings

C2B 104	C2B 134	C2B 144	C2B 1D4
  	  	  	  
Without flange Materials: aluminium, brass, steel	Fixed flange Materials: brass, steel	Round brass screw fixing Thread selectable	Screw fixing SW32 brass Thread selectable

Order example

C2B 1 3 4 080 05 L + 12345

C2B	1	3	4	080	05	L	+	12345	Manufacturer code
									Special design: connections bent
									Switching temperature tolerance: 5K
									Switching temperature: 80°C
									Flare cap: brass
									Fastening: fixed flange
									Connection technology: blade terminal 6.3x0.8
									Type: two-pole limiting thermal switch