

Thermal cut-out thermostat TK24/TK32/TK24HT

Automatic or manual reset



design examples

Applications

- Domestic appliances
- Coffee machines
- Heaters and heating Elements
- Antifreeze
- Diesel preheating (automobile)

Benefits

- Ceramic housing available for high temperatures
- Low tolerances up to $\pm 3K$
- Various attachments
- Low hysteresis up to 10K

Switches of this series are extremely robust with universal characteristics: they can be used as temperature monitors and controllers, current-capable up to 16A, specifically adjustable hysteresis, and low tolerance up to 3%. The plastic housing, the floor and the fastening are tension-free. The heat is applied directly to the thermo-bimetal snap-disc via the contact surface (bottom), and thus allows a very rapid reaction. The connections vary in dimensions and mounting angles (0 - 90°). Types TK24 and TK24HT are automatically resetting, whereas type TK32 is a manual-resetting switch.

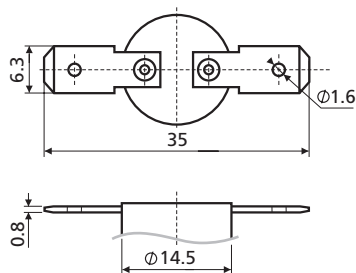
Technical data

ratings		type			
		TK24		TK24HT	TK32
function		automatic			manual reset
version		normally closed (n.c.) / normally open (n.o.)		normally closed (n.c.)	
ratings	rated current 250V AC (cos φ 0,95)	16 A	10 A	10 A	16 A
	switching cycles	30.000	100.000	10.000	3.000
	temperature T_A (steps in 5 K)	min +10°C up to max. 150°C	min +10°C up to max. 175°C *	+200°C to max. +250°C *	+30°C up to max. +250°C *
tolerance		$\pm 1, \pm 3$		$\pm 3, \pm 6, \pm 10$	$\pm 3, \pm 6$
contact resistance, Ω , not more		0.05			
hysteresis / reset temperature		20 $\pm$ 5		40 $\pm$ 10	---
degree of protection of enclosure (EN 60529)		IP4X			
dielectric strength		AC 1.500 V/1min. or AC 1.800 V/1 sec.			
suitable for use in protection class		I, II			
certifications		VDE  UL 			

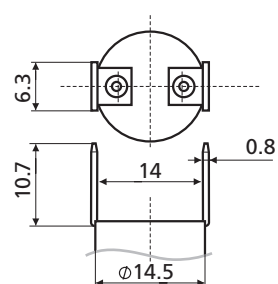
* other temperatures on request

Terminals

T01

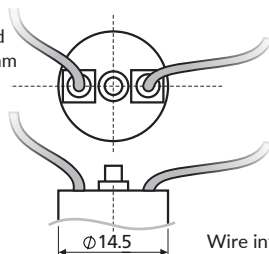


T02



T13

Wire standard
length: 150 mm

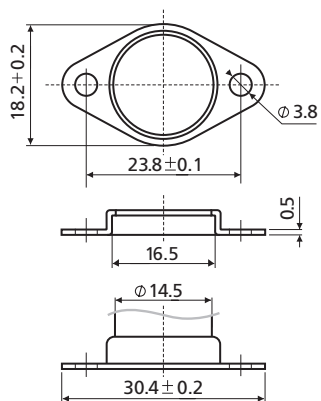


Wire information to be
specified on the order
form (type; cross-section; lengths; stripping)

Mounting

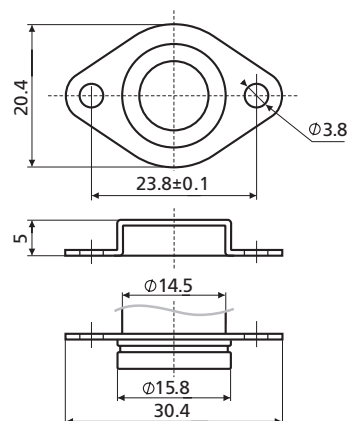
MG 01

ROTATION OR
FIXED CLIP



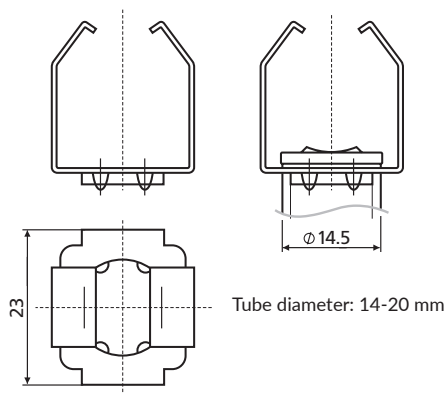
MG 02

CAP-FLANGE

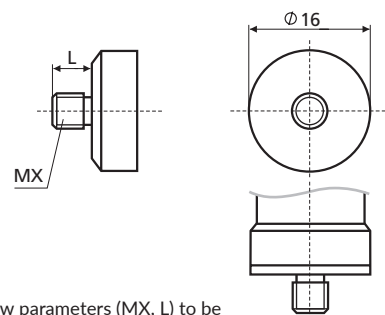


MG 05

TUBE
MOUNTING



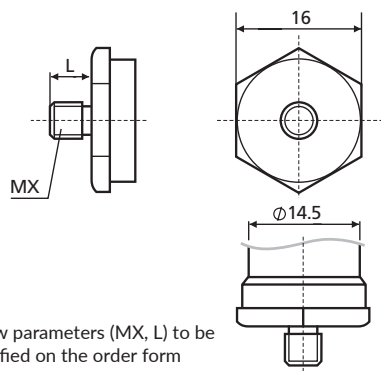
MG 06



Screw parameters (MX, L) to be
specified on the order form

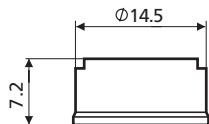
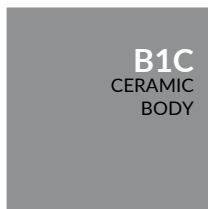
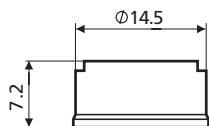
MG 08

SCREW CAP
HEXAHEDRAL
16

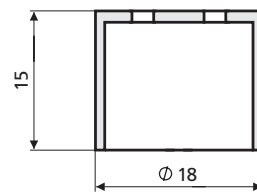


Screw parameters (MX, L) to be
specified on the order form

Body and/or Case



Only with lead wires
Protection degree IP64



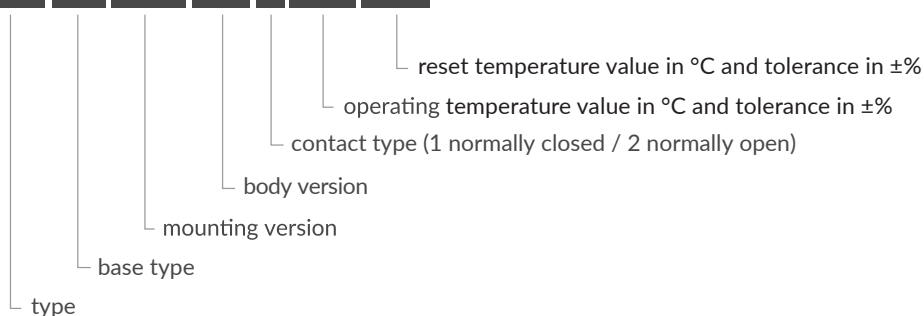
Only with
lead wires
and screw caps
Protection degree IP64

Table (Contact Type andand Contact Transoent Resistance Value)

Code	Contact Type	Contact Transient Resistance, Ohm
1	Normally closed (NC)	≤50
2	Normally open (NO)	≤50

Ordering example

TK24 T01 MG01 B1P 1 50±3 40±3



Microtherm Sentronic GmbH

Täschenwaldstraße 3
 75181 Pforzheim
 Deutschland
 Tel.: +49 7231 787-0
 Fax: +49 7231 787-155
 info@microtherm.de
 www.microtherm.de/en



MICROTHERM
sentronic

Mouser Electronics

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Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Microtherm Sentronic:

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[TK24HT-T01-MG01-B1C-2153-MIC](#) [TK24HT-T01-MG01-B1C-2203-MIC](#) [TK24HT-T01-MG01-B1C-2253-MIC](#) [TK24HT-T01-MG01-B1C-2453-MIC](#) [TK24HT-T01-MG01-B1C-2503-MIC](#) [TK24HT-T02-MG01-B1C-2003-MIC](#) [TK24HT-T02-MG01-B1C-2053-MIC](#) [TK24HT-T02-MG01-B1C-2103-MIC](#) [TK24HT-T02-MG01-B1C-2153-MIC](#) [TK24HT-T02-MG01-B1C-2253-MIC](#) [TK24HT-T02-MG01-B1C-2353-MIC](#) [TK24HT-T02-MG01-B1C-2403-MIC](#) [TK24HT-T02-MG01-B1C-2453-MIC](#) [TK24-T01-MG01-B1-1-703-505-MIC](#) [TK24-T01-MG01-B1C-1-1553-1355-MIC](#) [TK24-T01-MG01-B1C-1-1603-1405-MIC](#) [TK24-T01-MG01-B1C-1-1653-1455-MIC](#) [TK24-T01-MG01-B1C-1-1703-1505-MIC](#) [TK24-T01-MG01-B1C-1-1753-1555-MIC](#) [TK24-T01-MG01-B1C-2-1553-1355-MIC](#) [TK24-T01-MG01-B1C-2-1603-1405-MIC](#) [TK24-T01-MG01-B1C-2-1653-1455-MIC](#) [TK24-T01-MG01-B1C-2-1703-1505-MIC](#) [TK24-T01-MG01-B1C-2-1753-1555-MIC](#) [TK24-T01-MG01-B1P-1-1003-805-MIC](#) [TK24-T01-MG01-B1P-1-1053-855-MIC](#) [TK24-T01-MG01-B1P-1-1103-905-MIC](#) [TK24-T01-MG01-B1P-1-1153-955-MIC](#) [TK24-T01-MG01-B1P-1-1203-1005-MIC](#) [TK24-T01-MG01-B1P-1-1253-1055-MIC](#) [TK24-T01-MG01-B1P-1-1303-1105-MIC](#) [TK24-T01-MG01-B1P-1-1353-1155-MIC](#) [TK24-T01-MG01-B1P-1-1403-1205-MIC](#) [TK24-T01-MG01-B1P-1-1453-1255-MIC](#) [TK24-T01-MG01-B1P-1-1503-1305-MIC](#) [TK24-T01-MG01-B1P-1-403-205-MIC](#) [TK24-T01-MG01-B1P-1-453-255-MIC](#) [TK24-T01-MG01-B1P-1-503-305-MIC](#) [TK24-T01-MG01-B1P-1-553-355-MIC](#) [TK24-T01-MG01-B1P-1-603-405-MIC](#) [TK24-T01-MG01-B1P-1-653-455-MIC](#) [TK24-T01-MG01-B1P-1-753-555-MIC](#) [TK24-T01-MG01-B1P-1-803-605-MIC](#) [TK24-T01-MG01-B1P-1-853-655-MIC](#) [TK24-T01-MG01-B1P-1-903-705-MIC](#) [TK24-T01-MG01-B1P-1-953-755-MIC](#) [TK24-T01-MG01-B1P-2-1003-805-MIC](#) [TK24-T01-MG01-B1P-2-1053-855-MIC](#) [TK24-T01-MG01-B1P-2-1103-905-MIC](#) [TK24-T01-MG01-B1P-2-1153-955-MIC](#) [TK24-T01-MG01-B1P-2-1203-1005-MIC](#) [TK24-T01-MG01-B1P-2-1253-1055-MIC](#) [TK24-T01-MG01-B1P-2-1303-1105-MIC](#) [TK24-T01-MG01-B1P-2-1353-1155-MIC](#) [TK24-T01-MG01-B1P-2-1403-1205-MIC](#) [TK24-T01-MG01-B1P-2-1453-1255-MIC](#) [TK24-T01-MG01-B1P-2-1503-1305-MIC](#) [TK24-T01-MG01-B1P-2-403-205-MIC](#) [TK24-T01-MG01-B1P-2-453-255-MIC](#) [TK24-T01-MG01-B1P-2-503-305-MIC](#) [TK24-T01-MG01-B1P-2-553-355-MIC](#) [TK24-T01-MG01-B1P-2-603-405-MIC](#) [TK24-T01-MG01-B1P-2-653-455-MIC](#) [TK24-T01-MG01-B1P-2-703-505-MIC](#) [TK24-T01-MG01-B1P-2-753-555-MIC](#) [TK24-T01-MG01-B1P-2-803-605-MIC](#) [TK24-T01-MG01-B1P-2-853-655-MIC](#) [TK24-T01-MG01-B1P-2-903-705-MIC](#) [TK24-T01-MG01-B1P-2-953-755-MIC](#) [TK24-T02-MG01-B1C-1-1553-1355-MIC](#) [TK24-T02-MG01-B1C-1-1603-1405-MIC](#) [TK24-T02-MG01-B1C-1-1653-1455-MIC](#) [TK24-T02-MG01-B1C-1-1703-1505-MIC](#) [TK24-T02-MG01-B1C-1-1753-1555-MIC](#)

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