α Therm

BASIC TECHNICAL DATA FOR TK24 (10 °C – 175 °C)

Parameter	Value
Rated voltage, V, not more	~250
Rated current, A, at power coeff. 0,95, not more	16
Rated current, A, at power coeff. 0,6, not more	10
Number of automatic cycles, at rated current 16 A and power coeff. 0,95, not less than	30 000
Number of automatic cycles, at rated current 10 A and power coeff. 0,95, not less than	100 000
Operating temperature, °C	10 to 175
Tolerance of operating temperature, %, but not less than °C	±1; ±3
Reset temperature, lower than operating temperature, °C, on	5±3; 15±5; 40±10
Transient resistance, Ω, not more	0,005; 0,01; 0,05
Contact operating time, ms, not more	3
Electric strength of insulation, V, not less than	1500
Insulation resistance, MΩ, not less than	50
Heating speed, K/min	minimum-0,1; maximum-1,0
Degrees of protection provided by enclosure	IP4X; IP64

BASIC TECHNICAL DATA FOR TK24 (175 °C – 200 °C)

Parameter	Value
Rated voltage, V, not more	~250
Rated current, A, at power coeff. 0,95, not more	16
Rated current, A, at power coeff. 0,6, not more	10
Number of automatic cycles, at rated current 16 A and power coeff. 0,95, not less than	30 000
Number of automatic cycles, at rated current 10 A and power coeff. 0,95, not less than	100 000
Operating temperature, °C	175 to 200
Tolerance of operating temperature, %	±3; ±6
Reset temperature, lower than operating temperature, °C, on	30±10; 50±10
Transient resistance, Ω, not more	0,05
Contact operating time, ms, not more	3
Electric strength of insulation, V, not less than	1500
Insulation resistance, MΩ, not less than	50
Heating speed, K/min	minimum-0,1; maximum-1,0
Degrees of protection provided by enclosure	IP4X; IP64

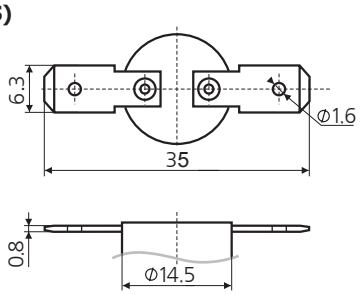
BASIC TECHNICAL DATA FOR TK24 (-45 °C - +10 °C)

Parameter	Value
Rated voltage, V, not more	~250
Rated current, A, at power coeff. 0,95, not more	16
Rated current, A, at power coeff. 0,6, not more	10
Number of automatic cycles, at rated current 16 A and power coeff. 0,95, not less than	30 000
Number of automatic cycles, at rated current 10 A and power coeff. 0,95, not less than	100 000
Operating temperature, °C	- 45 to 10
Tolerance of operating temperature, °C	±3
Reset temperature, lower than operating temperature, °C, on	10±3; 15±5
Transient resistance, Ω, not more	0,05*
Contact operating time, ms, not more	3
Electric strength of insulation, V, not less than	1500
Insulation resistance, MΩ, not less than	50
Heating speed, K/min	minimum-0,1; maximum-1,0
Degrees of protection provided by enclosure	IP64

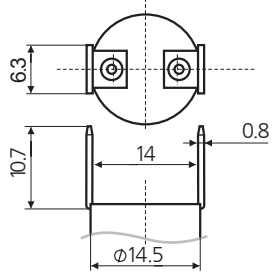
*May differ depending on the wire type and length

Table 1.1 (TERMINALS)

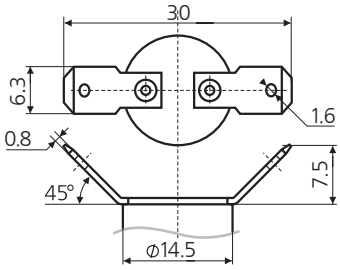
T 01



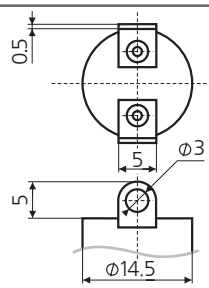
T 02



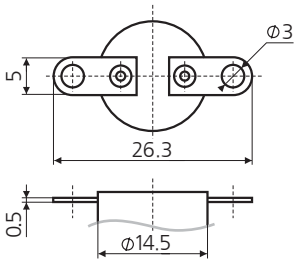
T 03



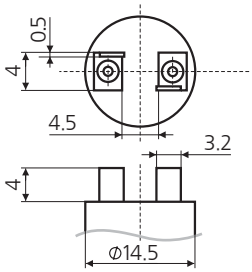
T 04



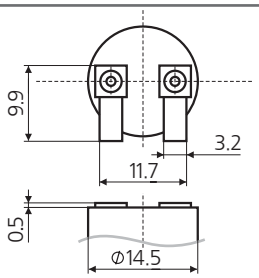
T 05



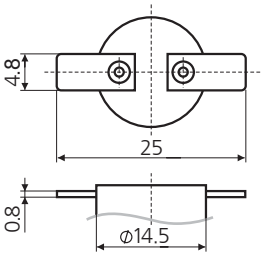
T 06



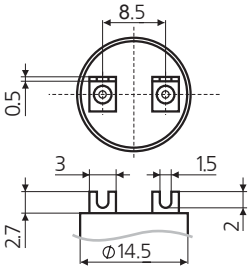
T 07



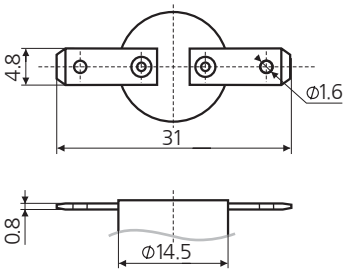
T 08



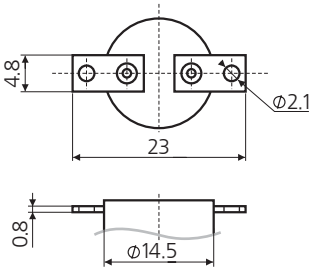
T 09



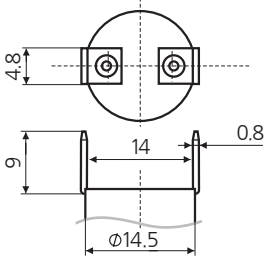
T 10



T 11

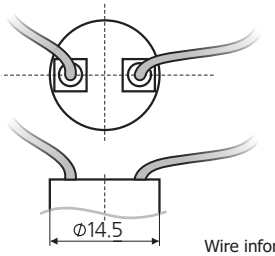


T 12



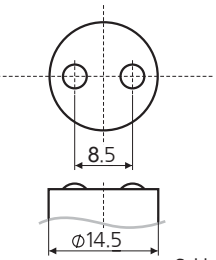
T 13

Wire standard length: 150 mm



Wire information to be specified on the order form (type; cross-section; lengths; stripping)
The only option for TK24 (-45-+10)

T 14

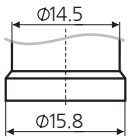


Soldering balls

Table 1.2 (MOUNTING)

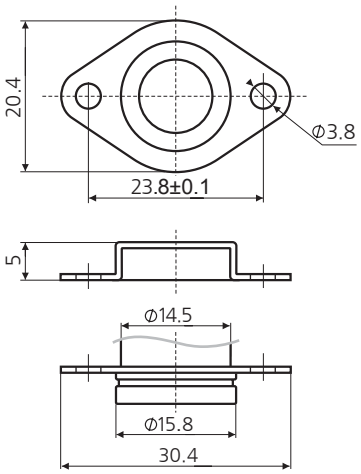
MG 00

NO MOUNTING

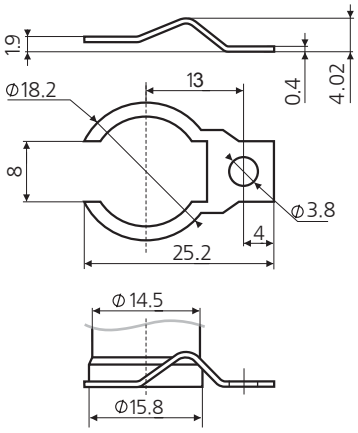


MG 02

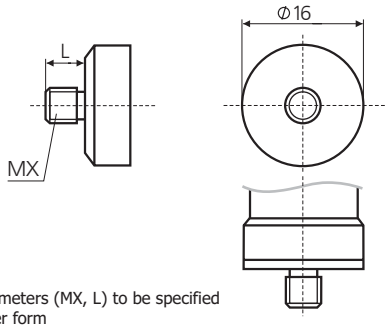
CAP-FLANGE



MG 04



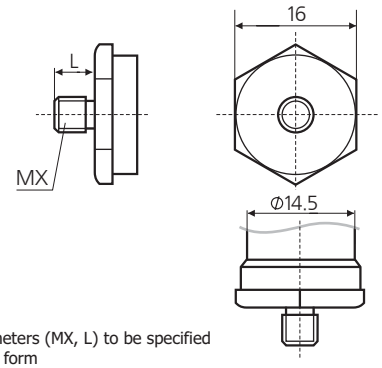
MG 06



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

MG 08

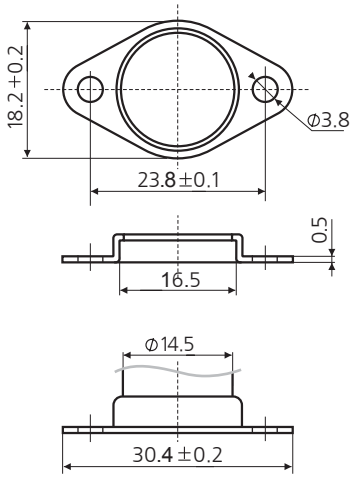
SCREW CAP HEXAHEDRAL 16



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

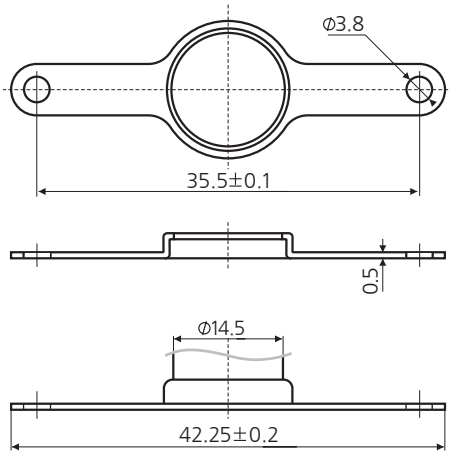
MG 01

ROTATION OR FIXED CLIP



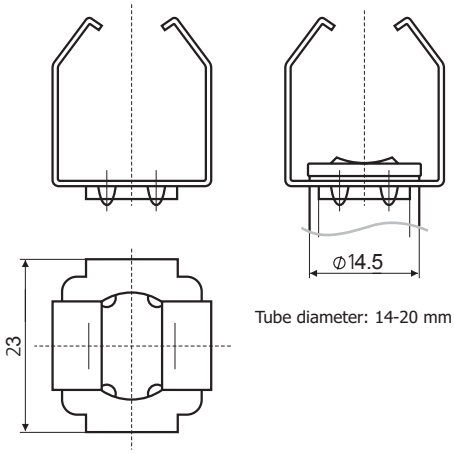
MG 03

ROTATION CLIP



MG 05

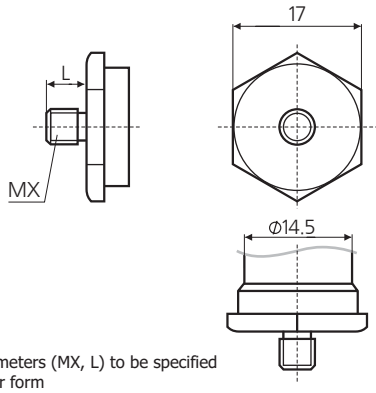
TUBE MOUNTING



Tube diameter: 14-20 mm

MG 07

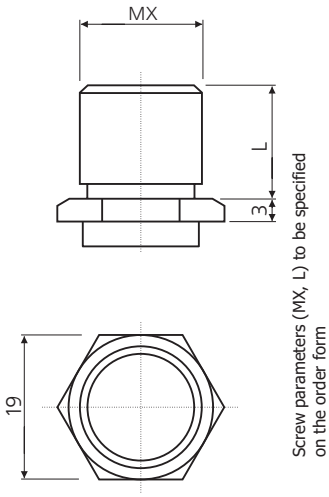
SCREW CAP HEXAHEDRAL 17



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

Table 1.2 (MOUNTING)

MG 09
SCREW CAP
HEXAHEDRAL 19



MG 10
WITH GROUNDING

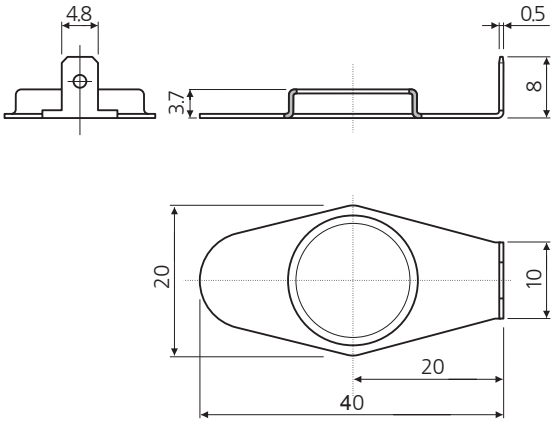
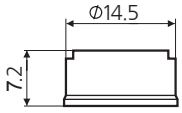
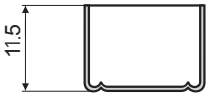


Table 1.3 (BODY and/or CASE)

B1P
PLASTIC BODY

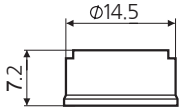


B3S
STEEL CASING

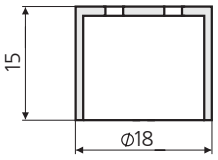


Only with lead wires
Protection degree IP64

B1C
CERAMIC BODY

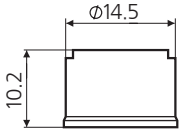


B4P
PLASTIC BODY

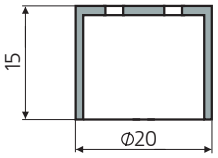


Only with lead wires
and screw caps
Protection degree IP64

B2P
PLASTIC BODY

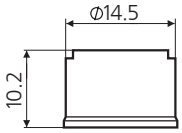


B4C
CERAMIC BODY

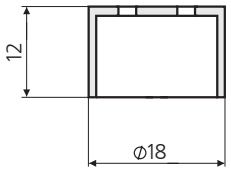


Only with lead wires
and screw caps
Protection degree IP64

B2C
CERAMIC BODY

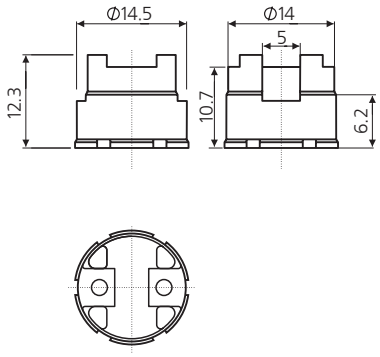


B5P
PLASTIC BODY

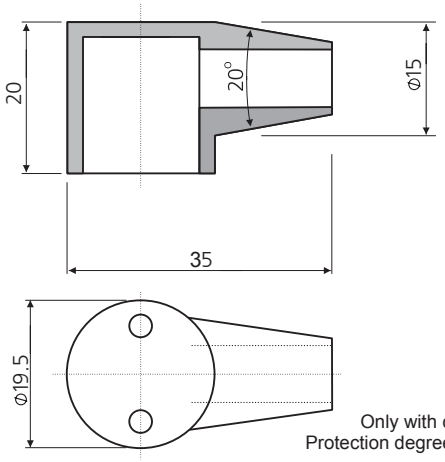


Only with lead wires
Protection degree IP64

B3C
CERAMIC BODY



B6S
SILICONE CASING



Only with cables
Protection degree IP64

Table 1.4 (CONTACT TYPE AND CONTACT TRANSIENT RESISTANCE VALUE)

CODE	CONTACT TYPE	CONTACT TRANSIENT RESISTANCE, mOhm
1	Normally closed (NC)	≤50
2	Normally open (NO)	≤50
3	Normally closed (NC)	≤10
4	Normally open (NO)	≤10
5	Normally closed (NC)	≤5
6	Normally open (NO)	≤5

PART ORDERING SYSTEM

TK24	TX*	MGX**	BXX	X	X±X***	X±X***
1	2	3	4	5	6	7

1	Thermostat model
2	Terminals version (select from Table 1.1)
3	Mounting version (select from Table 1.2)
4	Body version (select from Table 1.3)
5	Contact type and contact transient resistance value (select from Table 1.4)
6	Operating temperature value in °C and tolerance in ± %***
7	Reset temperature value in °C and tolerance in ± %***

Example: TK24-T01-MG04-B2C-2-60±3%-20±5%

*For wire terminals, lead wire parameters must be specified when placing an order: insulation type, cross-section area; ends type; lenght; etc.

**For screw cap mountings, screw parameters must be specified when placing an order.

***Tolerance in % or °C, whichever numerical value is bigger.