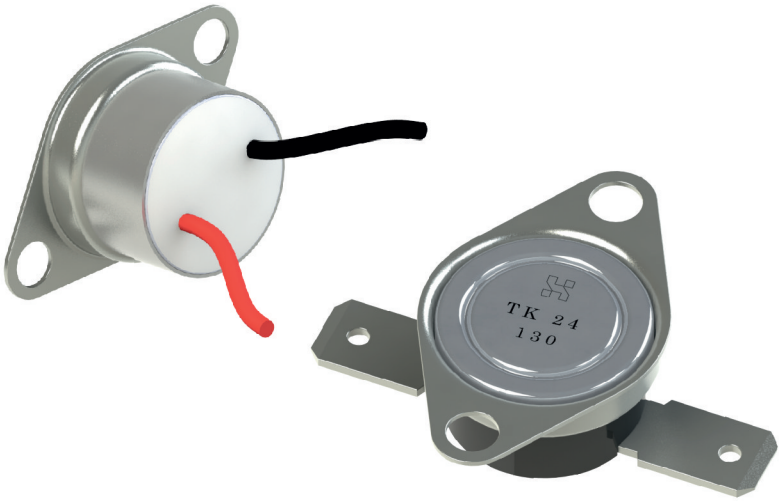
TK 24 / TK 32

Temperature detector, Thermostat, Temperature limiter

Limitor
Temperature, Current, Time under Control



- **Temperature range up to 425°C**
- **Great variety of types**
- **Small and flexible temperature tolerances**

The product range of TK 24 / TK 32 is very wide.
The thermo switch operates independently from any current supply.
The thermal operation system works by means of ceramic pin separated from the contact system galvanically.
The housing, the covering cap and the attachments are free of voltage.
TK 24 / TK 32 only react when external thermal heating affects them.
The thermal coupling to the source of heat is effected by means of a bimetal disc lying directly below the metallic covering cap.
Due to small size, high reliability, independence of location and the fact that it is totally maintenance-free, a TK 24 / TK 32 is the ideal instrument for perfect thermal protection.

Contact types

TK 24 NC - break contact which will automatically return into its original position

TK 24 NO - make contact which will automatically return into its original position

TK 24 L NC - limiter with mechanical latching and additional regulation function

TK 32 NC - limiter with mechanical latching

Order indication

TK 24 - NO - X - X - X - 180 - 01 - X - XXXX

type

Function:
NO = normally open
NC = normally close
LNC = NC with limiter

Connections:
1 Faston 6,3 x 0,8 lateral straight
2 Faston 4,8 x 0,8 lateral straight
3 Faston 6,3 x 0,8 90° bended
⋮

Attachment:
0 without flange
1 loose flange
3 fixed flange, with any angle
4 screw cap M4 / S17
⋮

Cap material:
0 aluminium
3 stainless steel
6 nickel plated steel
⋮

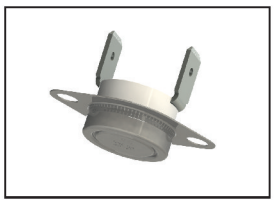
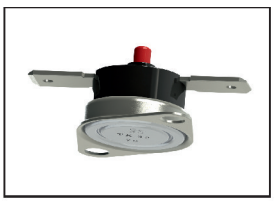
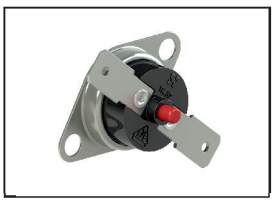
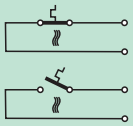
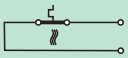
Switching temperature:
-45 = -45°C
⋮
425 = +425°C

Tolerance:
01/03: -45°C to 175°C : 1/3°C
03/06: 175°C to 425°C : 3/6 %

Hysteresis:
A: <15 K
B: customer's demand

Special customized version

Technical data TK 24 / TK 32

Type	TK 24	TK 24L	TK 32
			
Circuit diagram			
Contact type	break / make contact with automatic return in its original position	limiter with additional regulation function	limiter with mechanical latching
Nominal voltage	up to 250 V / 50Hz		
Electrical durability	100.000 cycles 10 A 10.000 cycles 16 A	10.000 cycles 10 A	
Switching temperature range	-45°C - 425°C	10°C - 170°C	30°C - 250°C
Switching temperature tolerance	< 170°C:±3K and > 175°C: ±3% or ±6%		
Switching temperature difference	10 / 15 K up to 60 / 100 / 150 K, others on demand		
Degree of protection	IP 64, IP 40		
Max. ambient temperature (permanent)	plastic housing 200°C, ceramic housing 425°C		
dielectric strenght	1500 V eff. 50 HZ		
Approvals	ENEC / IEC, VDE, CSA, REACH, conform to RoHS, others on demand		

Order example:

425°C Switching temperature

NO: normally open

fixed flange

< 15K hysteresis

TK 24 - NO - 1 - 3 - 0 - 425 - 03 - A

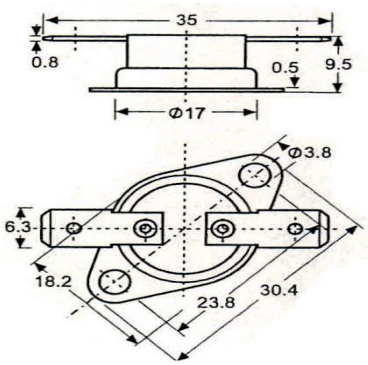
type

faston 6,3 x 0,8 lateral straight

cap: aluminium, closed

3% tolerance

Dimensioned drawing:
(example)



Limitor
Temperature, Current, Time under Control

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