LIMITOR

PITCH TECHNOLOGIES

THERMO SWITCH
TEMPERATURE DETECTOR, THERMOSTAT, TEMPERATURE LIMITER



- **High reliability**
- **Long durability**
- **Small temperature tolerances**
- **High safety**
- **Great variety of types**

Function

The thermo switch operates independently from any current supply. The thermal actuation system works by means of ceramic pin galvanically separated from the contact system.

The housing, the covering cap and the fastening are free of voltage.

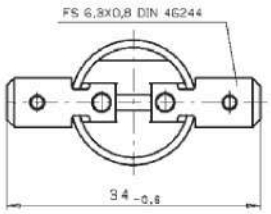
Thermo switches only react when external thermal heating affects them. The thermal coupling to the source of heat is effected by means of a bimetal disc lying directly below the metallic covering cap.

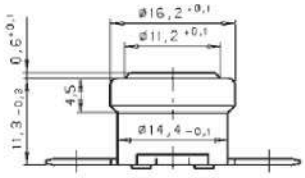
Its small size, high reliability, independence of location and the fact that it is completely maintenance free makes a thermos switch the ideal instrument for perfect thermal protection.

Contact types

- **KO:** break contact which will automatically return into its original position
- **KS:** make contact which will automatically return into its original position
- **KB:** limiter with mechanical latching
- **SO:** break contact with electric latching
- **CO/CS/CB/CSO:** break contact, make contact, limiter in ceramic housing.

Dimensions

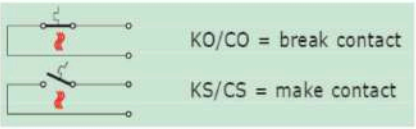
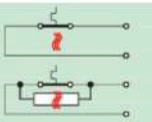




THERMO SWITCH
TEMPERATURE DETECTOR, THERMOSTAT, TEMPERATURE LIMITER

PITCH TECHNOLOGIES

Technical specifications

Name	KO / KS	CO / CS	KB / CB	SO / CSO
				
Circuit diagram	 KO/CO = break contact KS/CS = make contact		 KB/CB = mechanical limiter SO/CSO = electrical limiter	
Contact type	break / make contact with automatic return in its original postions		break contact with mechanical latching	break contact with electrical latching
Nominal voltage	up to 250V / 50 Hz (ceramic version 400 V / 50 Hz)			
Elect. durability	100.000 cycles 10 (1,6) A 10.000 cycles 16 (6) A		3.000 cycles 10 (1,6) A 1.000 cycles 16 (6) A	
Max. switching current	16 (6) A		10 (1,6) A	
Switching temp. range	-25°C - 200°C (350°C)			
Switching temp. tolerance	±5 K, C, ±10, others on demand			
Switching temp. difference	A = ≤15 K, C = ≤ 40 K		on demand	
Degree of protection	IP00 sequential circuit protected against dust and dirt			
max. ambient temperature (permanent)	220°C			
electrical strength closing cap against mass	2000 $V_{eff.}$ 50 Hz			
electrical strength via open contacts	500 $V_{eff.}$ 50 Hz			
Approvals	UL/VDE, conform to RoHS, please specify			

THERMO SWITCH
TEMPERATURE DETECTOR, THERMOSTAT, TEMPERATURE LIMITER

PITCH TECHNOLOGIES

Ordering information

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

Sample Code: KO - 1 - R - 0 - 080 - 05 - DA

Type of contact

- KS
- KB
- SO
- also in ceramic

Connection type

- 1 = Faston 6,3 x 0,8 lateral straight
- 2 = Faston 4,6 x 0,8 lateral straight
- 3 = Faston 6,3 x 0,8
- 90° angleshaped form

Attachement type

- R = loose flange on both sides
- 9 = fixed flange 90°
- 4 = screw fixture M 4 x 6

Bördelcap

- 0 = aluminium, closes
- 15 = standard
- 2 = CrNi, closed
- 4 = Ms, closed

Switching temperature

- for example
- -25 = -25°C
- 080 = 80°C
- 200 = 200°C
- ceramic modesl up to 350°

Tolerance

- 05 = ±5 K
- 10 = ±10 K

Hysteresis

- A = Hysteresis ≤ 15 K
- B = Hysteresis on request
- D = PPS
- G = Gold plated contacts

Custom options on request.