MICROTHERM
sentronic

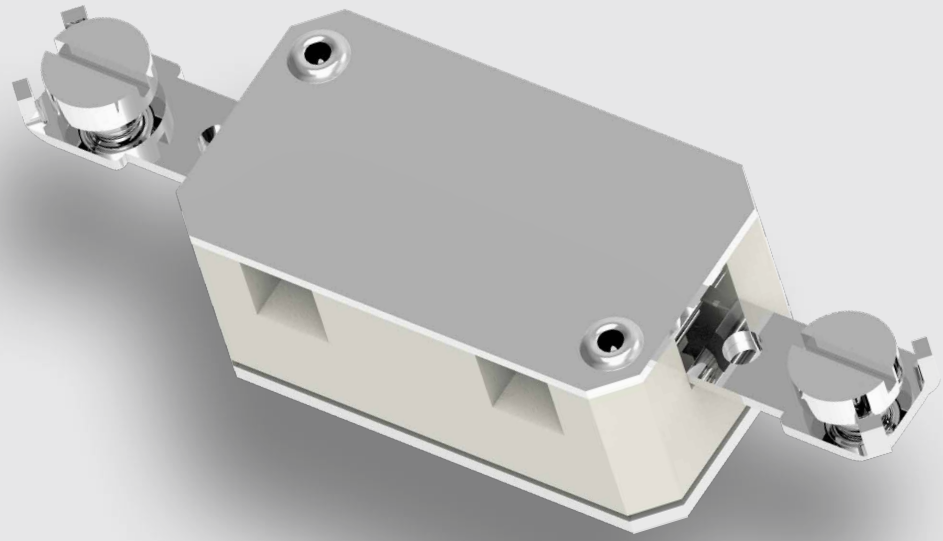
K

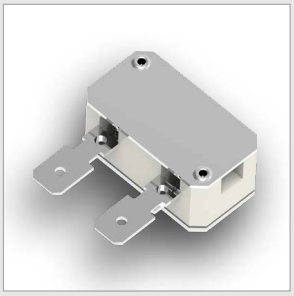
1AV

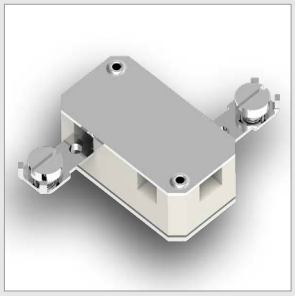
1AT

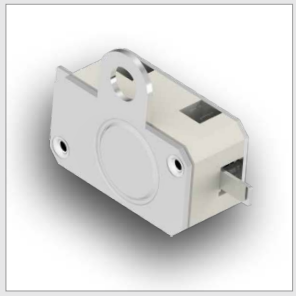
Thermal cut-out

Thermostat









Applications

- Fuel oil burner
- Welding- /soldering equipment
- Ironing Stations
- Hotplates
- Warming plates

Benefits

- High temperature materials (ceramic, steel, mikanite)
- Fixed set temperature
- Automatic reset
- Various connection possibilities

Description

High-temperature switches of the **K1 type series** operate in a current-independent manner, and measure the temperature by means of a thermo-bimetal snap-disc. After reaching the defined temperature, the switch opens or closes the circuit of the device to be protected. When the switch-back temperature is reached, the contact system automatically switches back.

K1 switches function as **auxiliary switches**, which convey the temperature across the base plate directly to the bimetallic disc. The base plate and the housing are free of stress.

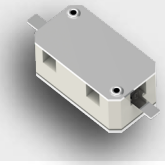
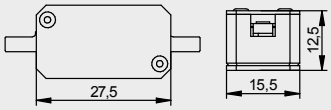



Technical data

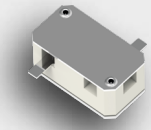
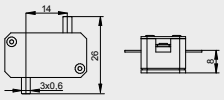
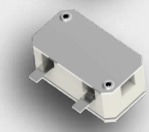
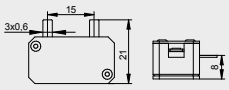
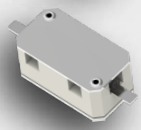
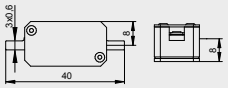
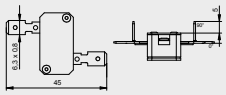
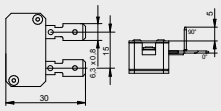
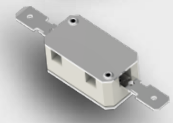
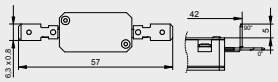
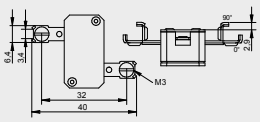
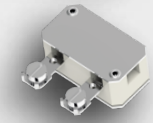
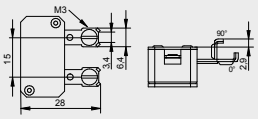
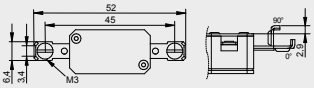
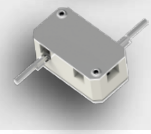
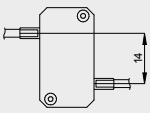
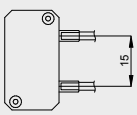
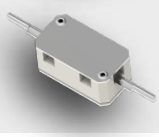
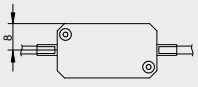
ratings			control type	
			K1AV	K1AT
function			automatic	
version			normally closed	normally open
rated current at 230 V 50 / 60 Hz (cos φ 0,95)			10 A	
rated current at 400 V 50 / 60 Hz (cos φ 0,95)			6 A	
switching cycles			10,000	
temperature range T_A (steps in 5 K)			200°C bis 450°C	
tolerances			± 5%	± 10%
feature of automatic action			1.B	
contact resistance			< 50 mΩ	
hysteresis			100 – 200K ±20 *	
degrees of protection provided by enclosures (EN 60529)			IP00	
suitable for use in protection class			I	
approval	VDE		EN 60730-1 / -2-9	-

* Depending on T-off

Standard type

type	nc	no	illustration	drawing dimensions (mm)	technical description	approval
K1A	V	T			cover micanite housing ceramic bottom plate steel	VDE

Terminals

code	illustration	drawing dimensions (mm)	technical description	approval (K1AV)
A160			welding terminals, steel	VDE
A170			welding terminals, steel	VDE
A180			welding terminals, steel	VDE
A161 (0°) A162 (90°)			terminals 6.3 x 0.8, steel, also available: angle 90 deg T_A max 350°C	VDE
A171 (0°) A172 (90°)			terminals 6.3 x 0.8, steel, also available: angle 90 deg T_A max 350°C	VDE
A181 (0°) A182 (90°)			terminals 6.3 x 0.8, steel, also available: angle 90 deg T_A max 350°C	VDE
A163 (0°) A164 (90°)			screw terminals, steel, also available: angle 90 deg T_A max 350°C	VDE
A173 (0°) A174 (90°)			screw terminals, steel, also available: angle 90 deg T_A max 350°C	VDE
A183 (0°) A184 (90°)			screw terminals, steel, also available: angle 90 deg T_A max 350°C	VDE
A168			lead L551, welded	VDE
A178			lead L551, welded	VDE
A188			lead L551, welded	VDE

lead L551: UL style 5107, 600V, max. 450°C, insulation glass bre-PTFE, cross-section of conductor 1,3 mm^2 (AWG16) , grey, stripped 10mm

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