



Product: THx - Series KVK

Thermal Switch with high mechanical strength and high IP protection rating

Description: Thermostat in a rugged metal housing operating with bimetal snap-action element. The cable is permanently connected to the switch and cannot be disconnected.
Opens (type **THO**) or closes (type **THS**) the contact upon rising temperature and resets automatically into the original switching state when the temperature has dropped by the differential (automatic reset).
The switching temperature is preset in the factory and cannot be adjusted subsequently.
All current-carrying parts are electrically isolated from the housing.

Specifications:

Contact ratings:	up to 50VDC at 130W resistive max. $\geq 30,000$ cycles \rightarrow factory test
	max. 110VDC at 0.5A (contactor coil) max. \rightarrow factory test
	250VAC, 10A resistive $\geq 100,000$ cycles
	250VAC, 16A resistive $\geq 10,000$ cycles
Minimum switching current:	$\geq 50\text{mA}$ with silver contacts, $\geq 10\text{mA}$ with gold-plated contacts
Contact resistance of switch:	$\leq 25\text{m}\Omega$ with silver contacts, $\leq 10\text{m}\Omega$ with gold-plated contacts
Dielectric strength:	up to 2,000Veff, 50Hz el. terminals metal housing
	500Veff, 50Hz across open contacts
Protection Degree / IP Rating:	up to IP68 / IP69K
Housing material:	Standard = brass CuZn39Pb3 / Ms58,
	Option: stainless steel / steel nickel-plated / Aluminium / RoHS-compliant brass
Product standard:	DIN EN 60730

Temperatures:	Class S	Class H	Class V
Switching temperatures:	-20 ... +125°C	+130 ... +190°C	+195 ... 210°C
Ambient temperature range:	-40 ... +130°C	-40 ... +200°C	-40 ... +220°C

Standard tolerance: $\pm 5\text{K}$ other / smaller values on request
Standard differential: $\leq 15\text{K}$ other values on request (minimum 5K)
special reset temperatures on request

Note: Standard wrench size SW30 / SW24. Other wrench sizes on request. The threads and bolts are manufactured according to customer requirements. In addition to metric and pipe threads, special thread / stud sizes can be manufactured.
Minimum thread size approx. M10.
Deviating from the standard, this series can also be manufactured for nominal voltages up to 400VAC.

Technical specifications as stated in our data sheets are based on the results of tests carried out in the facilities of TEMTECH or the respective component manufacturer applying standard test methods and equipment. Results obtained with different test procedures and equipment may vary. The proper adjustment of the thermostats and any other component purchased from TEMTECH and proof of suitability for the intended application is in the buyer's own responsibility.

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