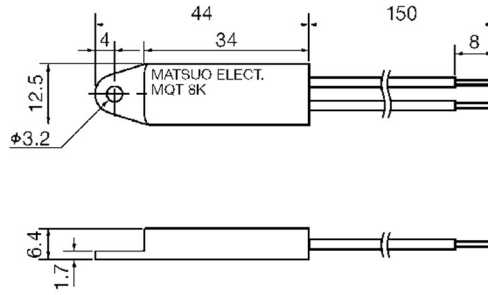


TECHNICAL DATA MQT8K K



version	MQT8K K (special crossbar contacts)	
contact type	NC = normally close / NO = normally open	
nominal switching temperature	-10°C up to 110°C	
max. ambient temperature	110°C (max. 60K higher than operating temperature)	
tolerance range	-10°C bis 0°C = ±4K (±3K possible) 1°C bis 50°C = ±3K (±2K possible)	51°C bis 65°C = ±4K (±3K possible) 66°C bis 110°C = ±5K
	Attention please! Not valid for differential D!	
reset temperature (differential)	A = 2K till 5K from effective NST* B = 3K till 6K from effective NST** *only for 0 till 50°C available **only till 65°C available	C = 5K till 8K from effective NST*** D = 8K till 12K from effective NST ***only till 75°C available
rated voltage U _N 50/60Hz (VDE/IEC)	125 VAC up to 250 VAC / 12 VDC up to 48 VDC	
rated current with U _N ohmic cos φ = 1,0	differential A, B, C, D = 1mA – 100mA	
approvals	VDE, UL, CSA for 10.000 cycles	
standard connection	wire AWG 22, black, 150 mm	
high voltage insulation	2,0 kV	
degree of protection	insulated housing / IP00 (according to IP40)	
contact resistance	<10 mOhm without wire	
mechanically life	1.000.000 cycles (mechanically, without any electrical load) 100.000 electrical operations (Matsuo)	
vibration proof (at 10...60Hz)	0,2 mm = 1G 10..55 Hz 0,35 mm fixed 2h in X,Y and Z direction = 0,1G - 2,2G	
vibration proof (at 10...55Hz) 0,35mm fixed for 2h in X,Y and Z direction	= 0,1G up to 2,2G (depend to tolerance)	

LONG LIFE TEMPERATURE CONTROLS WITH NARROW DIFFERENTIAL

Benefits & Advantages

The outstanding quality level of our Temperature Controls satisfies highest demands for safety and reliability. They are provided with a patented, fully developed and reliable switching device system.

best geometric design	perfect size for mounting into and onto applications
save, reliable & durable	100% tests while production process
temperature sensitive	reproducible Switching-Temperature induced by mechanical unstressed and electrically unloaded bimetallic disk
narrow tolerances	special kind of bimetallic stripe would offer you a narrow differential and tolerance
long life	because of special bimetal-construction there would be realized a very long life

Technical Data

The listed specifications and information are based on tests and test series. They are of a standard nature and therefore deviations may occur in connection with specific applications. The suitability for a specific application must be individually tested by the user. Please contact us for advice and support.

Configuration with our article number

NC at X type = open contacts at rising temperature = X (cut off at X °C / reset down the effective operating temperature X)
NO at X/ type = close contacts at falling temperature = X/ (close at X/ °C / reset higher the effective operating temperature X/)
NO at Y type = close contacts at rising temperature = Y (close at Y °C / reset down the effective operating temperature Y)
NC at Y/ type = open contacts at rising temperature = Y/ (close at Y/ °C / reset higher the effective operating temperature Y/)

First example is a MQT 8K NC-type 10°C operating temperature, tolerance = ±3K, differential = A 2-5K down eff. operating temperature with special crossbar contacts for SPS currents

second example is a MQT 8K NO-type 40°C operating temperature, tolerance = ±3K, differential = C 5-8K down eff. operating temperature with special crossbar contacts for SPS currents

1. count	2.-4. count	5. count	6.-10. count	11. count	12.-13. count	14.-15. count	further count
A=NC-type B=NO-type	temperature		version	contacts crossbar	temperature	type of contact + differential	
A	010	-	MQT8K	K	10	XA	
B	040	-	MQT8K	K	40	YC	

**The manufacturing and production of our Thermostats is DIN ISO 9001 certified.
By maintaining the current RoHS-conformity the products correspond also to the WEEE 2012/19/EU.**

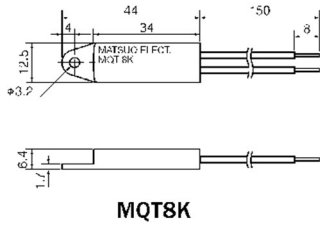
Our friendly team would give you detailed information for all the products. Of course, we want to help you, to find the best solution for your application. Please call us for further information.

Protherm Wärmeschutz GmbH
 Turnstraße 28
 D-75328 Schömburg GERMANY

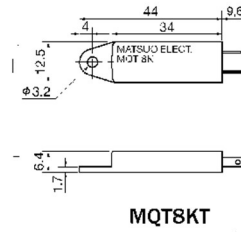
phone: +49 (0) 7235 980 200
 fax: +49 (0) 7235 980 201
 e-mail: kontakt@protherm.info
 Internet: www.protherm.info

CONFIGURATION SAMPLES

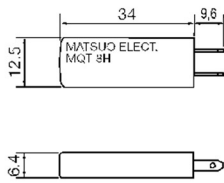
MQT Series



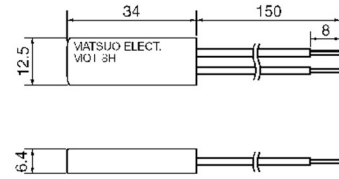
MQT8K



MQT8KT

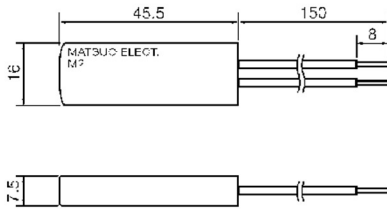


MQT8HT

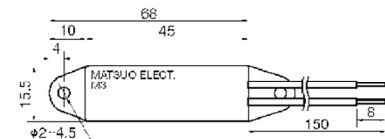


MQT8H

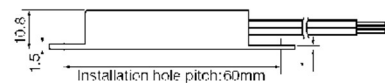
MQT 5A Series M2 and M3 models



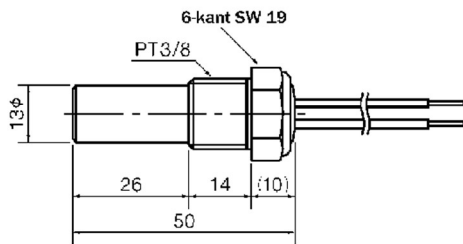
Typ M2



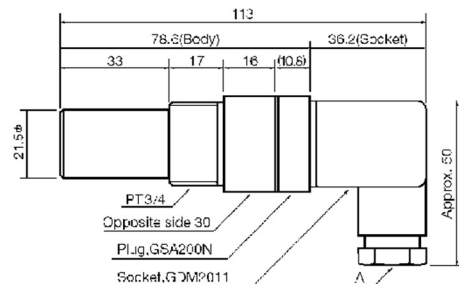
Typ M3



MQT Liquid Controller



Typ 81P



Typ 72P