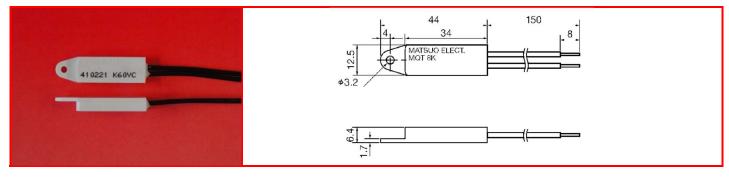
PROTHERM Wärmeschutz GmbH

TECHNICAL DATA MQT8K

- LONG LIFE TEMPERATURE CONTROLLER WITH NARROW DIFFERENTIAL



version	MQT8K				
contact type	NC = normally close / NO = normally open			en	
nominal switching temperature	-10°C up to 110°C				
max. ambient temperature	110°C (max. 60 K higher than operating temperatu			ature)	
tolerance range		-10°C bis 0C = ±4K (±3K possible) 5 1°C bis 50°C = ±3K (±2K possible)		= ±4K (±3K possible) s 110°C = ±5K	
	Attention please! Not valid for differential D!				
reset temperature (differential)	*only for 0 till 50°C ava	= 3K till 6K from effective NST** D = 8K till 12		from effective NST*** 2K from effective NST till 75°C abailable	
rated voltage U $_{\rm N}$ 50/60Hz (VDE/IEC)	125 VAC	25 VAC up to 250 VAC / 12 VDC up to 48 VDC			
rated current with UN ohmic $\cos \phi = 1,0$	48 VDC (for differential class) A, B, C = 5 mA – 300mA D= 50mA - 600mA	C = 5 mA – 300mA A = 50mA - 600mA		12 VDC / 125 VAC A = 50mA - 1,0 A B = 50mA - 1,5 A C, D = 50mA - 2,0 A	
approvals	V	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)			40)	
contact resistance		<70mOhm with	out wire		

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Functions & Types

Bimetal switch

After reaching its factory-adjusted Nominal Switching Temperature (NST) the bimetal disc suddenly turns over from its stable initial position into a stable end position and thereby activates the switching device.

Normally closed (NC)

Contacts will disconnect the electric circuit at the preset responsing temperature and will backspace automatically after cooling.

Normally open (NO)

Contacts close and activate the supply (switching on of signal units)

Resetting

After cooling down below the factory-adjusted resetting temperature the switching device suddenly snaps back into its initial position.

Please note that it is possible a resettable controller will not make final shutoff, if the switch reach end of lifetime. We recommend to use for a final shutdown an additional fuse.

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. Please note: outside influences like moisture, gas formation, ultraviolet radiation, magnetic fields or vibrations can affect the function of the thermostat. Especially any influence of silicon must be avoided. The suitability for a specific application must be individually tested by the user. Our friendly team will give you detailed information of all our products. Of course, we want to help you, to find the best solution for your application. Please call us for further information.

Configuration with our article number

NC at X type = open contacts at rising temperature = X (cut off at X $^{\circ}$ C / reset down the effective operating temperature X) **NO at X/ type** = close contacts at falling temperature = X/ (cut off at X/ $^{\circ}$ C / reset higher the effective operating temperature X/) **NO at Y type** = close contacts at rising temperature = Y (close at Y $^{\circ}$ C / reset down the effective operating temperature Y) **NC at Y/ type** = open contacts at falling temperature = Y/ (close at Y $^{\circ}$ C / reset higher the effective operating temperature Y)

First example is a

MQT 8K NC-type 10°C operating temperature, tolerance = \pm 3K, differential = A 2-5K down eff. operating temperature Second example is a

MQT 8K NO-type 40°C operating temperature, tolerance = \pm 3K, differential = C 5-8K down eff. operating temperature

1. count	24. count	5. count	610. count	11. count	1213. count	1415. count	further count
A=NC-type	temperature		version	contacts	temperature	type of contact +	
B=NO-type				crossbar		differential	
Α	010	-	MQT8K	-	10	XA	
В	040	-	MQT8K	-	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.

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