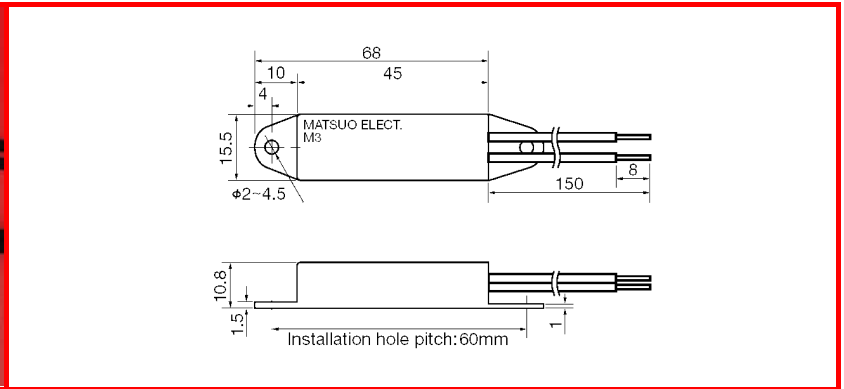
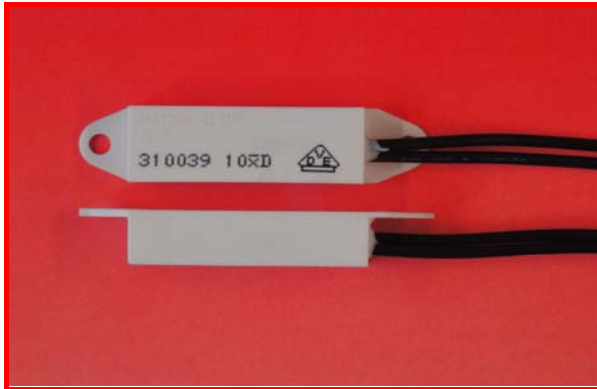


TECHNICAL DATA M3



version	M3		
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 up to 0°C = ±3K (±2K special) 1°C up to 50°C = ±3K (±2K special)	51°C up to 75°C = ±4K (±2K (special)) 76°C up to 110°C ±5K (±3K special)	
reset temperature (differential)	A = 3K up to 5K from effective NST * B = 3K up to 6K from effective NST* *only up to 75°C aviable	C = 5K up to 8K from effective NST D = 8K up to 12K from effective NST	
rated voltage U _N 50/60Hz (VDE/IEC)	125VAC up to 250VAC / 12VDC up to 48VDC		
rated current with UN ohmic cos φ = 1,0 (depended of tolerance class)	48VDC (for Differential class) A, = 50mA - 300mA B = 50mA - 500mA C, D= 50mA - 800mA	24VDC / 250VAC A = 50mA - 1,5A B = 50mA - 2,0A C,D = 50mA - 3,0A	12VDC / 125VAC A = 50mA - 3,0A B = 50mA - 4,0A C,D = 50mA - 5,0A
approvals	VDE, UL, CSA		
standard connection	Wire AWG 22, black, 150mm		
High voltage insulation	2,0kV		
degree of protection	Insulated housing / IP00 (according to IP40)		
contact resistance (MIL-Standard R5757)	<30mOhm without wire		
Mechanically Life	2.000.000 Cycles cycles (mechanically, without any electrical load)		
vibration proof (at 10...60Hz)	0,2mm = 1G 10..55Hz 0,35mm 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 an patented, fully developed and reliable switching device system.

Best geometric stable	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 advise 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/ (cut off at Y/ °C / reset higher the effective operating temperature Y/)

1 is as M3 NC-type 30°C operating temperature, tolerance = ±3K, differential = A 2-4K down eff. operating temperature
 2 is as M3 NO-type -8°C operating temperature, tolerance = ±3K, differential = A 2-4K higher eff. operating temperature
 3 is as M3 NO-type 35°C operating temperature, tolerance = ±3K, differential = C 5-8K down eff. operating temperature

1.count	2-4	5	6-10	11	12-13	14 - 15	special
A=NC-type B=NO-type	Nominal switching temperature	mark	type	Spezial contacts	temperature	type of contact differential	
A	030	-	M3	-	30	XA	
B	-08	-	M3	-	-8	X/A	
B	035	-	M3	-	35	YC	

THE THERMOSTAT-PRODUCTION IS DIN EN ISO 9001 CERTIFIED.
The products in this data-sheet corresponds to WEE directive 2002/95/EG (RoHS confirmed)

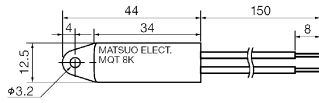
Our friendly team would give you detailed information's for all the products. Of course, we want to help you, to find the best solution for your application. Please call us for further information.

Protherm Wärmeschutztechnik
Thomas Burkhardt
Mühlstr. 36
D-75328 Schömberg
GERMANY

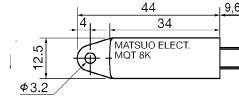
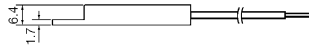
Telefon: +49 (0) 7235 980 200
Telefax: +49 (0) 7235 980 201
E-Mail: kontakt@protherm.info
Internet: www.protherm.info

CONFIGURATION SAMPLES

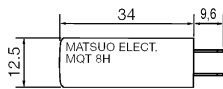
MQT Series



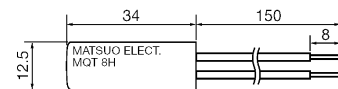
MQT8K



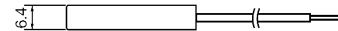
MQT8KT



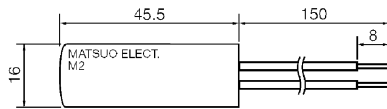
MQT8HT



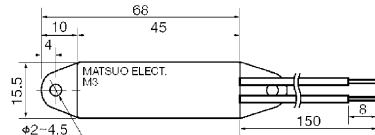
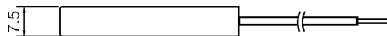
MQT8H



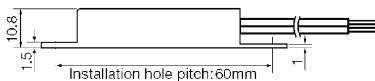
MQT 5A Series M2 and M3 models



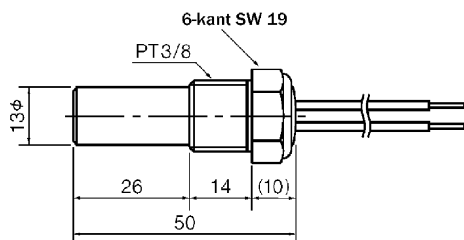
Typ M2



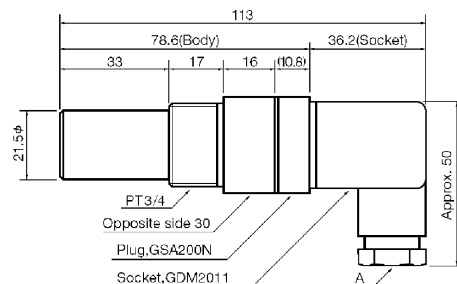
Typ M3



MQT Liquid Controller



Typ 81P



Typ 72P