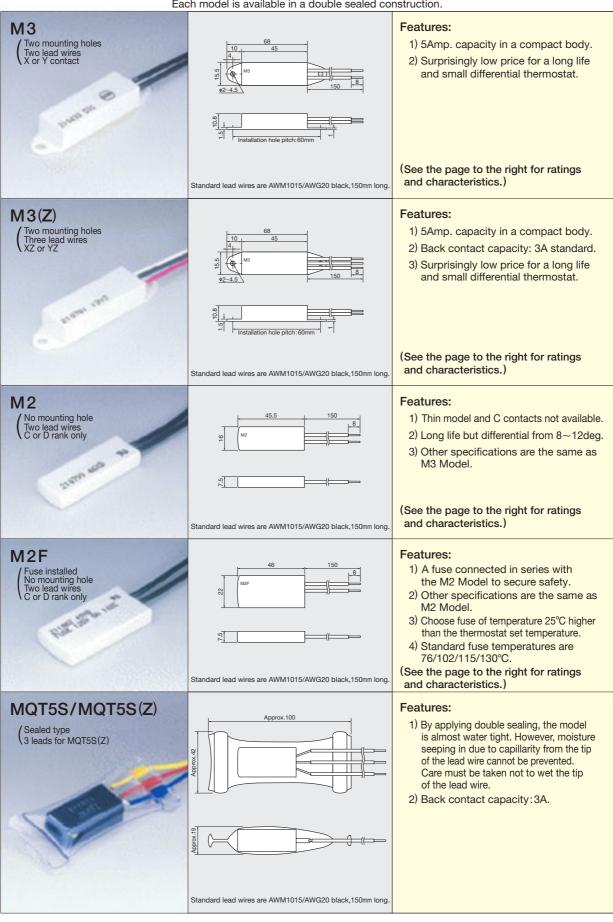
Temperature Power Sensor

5 amp. Series (AC125V/5A, AC250V/3A) (DC12V/5A, DC24V/3A)

Each model is available in a double sealed construction.



CANTHERM

8415 Mountain Sights Avenue • Montreal (Quebec), H4P 2B8, Canada Tel: (514) 739-3274 • 1-800-561-7207 • Fax: (514) 739-290 E-mail : sales@cantherm.com • Website: www.cantherm.com

Temperature Power Sensor

5 amp. Series (AC125V/5A, AC250V/3A) DC12V/5A, DC24V/3A)

Ratings and Characteristics:

Relation between Operating Voltage/Differential Rank and Contact Capacity (based on 100,000 operations)

	Current	M3/M3Z/5S/5SZ				M2/M2F		
Voltage		Differential rank	Current			Differential rank	Current	
AC125V	DC12V	D	50mA	~	5A	D	50mA ~ 6A	
		С	50mA	~	5A	С	50mA ~ 6A	
		В	50mA	~	4A			
		А	50mA	~	ЗA			
AC250V	DC24V	D	30mA	~	3A	D	30mA ~ 4A	
		С	30mA	~	3A	С	30mA ~ 4A	
		В	30mA	~	2A			
		A	30mA	~	1.5A			
_	DC48V	D	20mA	~	2A	D	20mA ~ 2.5A	
		С	20mA	~	2A	С	20mA ~ 2.5A	
		В	20mA	~	1.5A			
		А	20mA	~	1A			
AC50V	less than 6V DC	D	50mA	~	8A	D	50mA ~ 10A	
		С	50mA	~	8A	С	50mA ~ 10A	
		В	50mA	~	6A			
		A	50mA	~	4A			

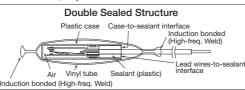
NOTE : 1."5 Ampere Series" represents the standard maximum current of M2 Model at AC125V. 2.Maximum current is limited slightly lower for M3 and 5S Models due to heat generated inside the switches.

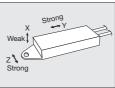
3.Crossbar	contact is not available for the 5 Ampere Series.
Maximum operating voltage	: AC250V max., DC48V max.
Temperature setting range	: -10° \sim 110° (tolerance/differential will change in the higher temp. above 75°C.)
Differential	: rank A 3 ± 1 (2~4)
	rank B 4.5 ± 1.5 (3~6)
	rank C $\cdots 6.5 \pm 1.5$ (5~8)
Contact configuration	rank D 10 ± 2 (8~12)
Contact configuration	1b(X), or 1a(Y) 1c(XZ or YZ) for M3(Z)/5S(Z).(see page 16.)
Operating temperature	$: -30^{\circ}C \sim 105^{\circ}C$ (standard), $-30^{\circ}C \sim 125^{\circ}C$ (special) (no icing, no condensing)
range	(use within 60 degrees above the set temperature.)
v	Standard tolerance for temperature up to 50 °C is ± 3 (see page 15 for technical data.)
	¹ 100MΩ or more
Contact resistance	$30m\Omega$ or less (lead wire resistance not included)
Voltage tolerance	AC2000V for 2sec. (600V for 1 minute between contacts)
Vibration tolerance	Selected from JIS·C·0911-1984
	Constant vibration; 50Hz fixed/0.2mm fixed (1G)
	Sweep vibration; 10~55Hz/0.35mm fixed (0.1~2.2G)
	Withstands 1 hour each in directions X, Y and Z.
Impact tolerance	No damage when dropped three times from the height of 40cm onto a concrete floor (about 70G).
	No damage for double sealed model when dropped three times from the height of 1m onto a concrete floor (about 240G). Withstands substantial impact after being put in a package or mounted in equipment.
Life	² 2 million mechanical operations, 100,000 electrical operations at rated load. (see page 15 for details.)
	² The thermostat withstands vibration and impact applied along Y and Z axis, but does not tolerate impact from X direction.
rianuling productions	

NOTE: "5 Ampere" refers to the value for C and D rank products at AC125V/DC12V. Please note that the contact capacity of A and B rank products is a little smaller than 5A.

Double Sealed Construction (improvement in water resistance and impact resistance increased)







2. Increased impact resistance Electrical components such as relays and motors are not very resistant against shocks. Drop-

1. Increased water resistance

Covering a thermostat with a plastic case and sealing its lead wires with plastic sealant is a widely accepted approach to achieve a dust-proof and water-resistant structure. Our thermostats, such as the MQT series in this catalogue, are of this design. Repeated material expansion and contraction, and internal air pressure changes caused by thermal cycle may lead to wear of plastic case and sealant, which consequently deteriorates sealing performance. Our double sealed design, using a vinyl tube, withstands severe environmental conditions for long periods of time.

NOTES: Water resistance is achieved by double sealed construction using a soft vinyl tube. 1.The soft vinyl tube must be taken care of to avoid damage.

2.Do not expose vinyl tube to the direct sunlight.

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8415 Mountain Sights Avenue • Montreal (Quebec), H4P 2B8, Canada Tel: (514) 739-3274 • 1-800-561-7207 • Fax: (514) 739-290 E-mail : sales@cantherm.com • Website: www.cantherm.com ping electrical components usually results in damage and subsequent malfunction. Products in the MQT Series are no exception. MQT Series products are fragile to impacts in X direction and more resistive to Y and Z direction impact. However, with the double sealing method using soft vinyl tubes, impact resistance is guaranteed for regular usage. Impact resistance: 240G