

Type M Series

Key Features

- **Cermet Element**
- Proven Reliability
- **2W Power Rating**
- **Strong Construction**
- Sealed to Military Standard
- Panel Sealed (MC1)
- **Rugged Terminations**



This is one of TE Connectivity's most popular ranges and is available with cermet resistance elements. This choice means that components offer excellent electrical and thermal stability, reliability, low noise and long life which makes them most suitable for the majority of professional applications.

The MC Series is used in the Tornado Project and is the standard single turn general purpose panel control used for most military applications in the UK and in Europe.

Characteristics - Electrical

MC1	MCU
Cermet	Cermet
100 Ohms to 2M2	10 Ohms to 1M Ohm
Linear	Linear
1,2,2 and 4.7 in each decade	1,2,2 and 4.7 in each decade
± 10%	± 10%
2W	2W
315 Vdc	315 Vdc
450 Vdc	450 Vdc
210°	210°
< 3 Ohms	< 3 Ohms
3% Max.	3 Ohms or 3%
> 5 G Ohms	> 1 G Ohms
630 V ac peak	630 V ac peak
	Cermet 100 Ohms to 2M2 Linear 1,2,2 and 4.7 in each decade ± 10% 2W 315 Vdc 450 Vdc 210° < 3 Ohms 3% Max. > 5 G Ohms

Characteristics - Mechanical

Starting Torque:	< 85 mNm	< 40 mNm	
Mechanical Rotation:	270°	270°	
End Stop Torque:	800 mNm	800 mNm	



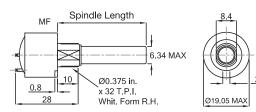
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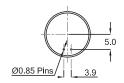
Characteristics - Environmental

Limits of Resistance Change:	3% (after 1000 hrs)	3% (after 1000 hrs)
Temperature Coefficient:	0.5%	0.75%
Bump Severity:	390 m/s², 4000 bumps	245 m/s², 4000 bumps
Vibration Severity:	10-500 Hz 98 m/s ²	10-150 Hz 98 m/s ²
Climatic Category:	55/125/56	55/125/21
Mechanical Endurance:	25000 operations Min.	25000 operations Min.
Sealing:	Panel sealed	Fully enclosed

Dimensions

MC1/MCU Wire Terminations





Туре		Standard Spindles	;
	Plain	Slotted	Drilled
MC1	25	16, 20, 25	25
MCU	25	16, 20, 25	25

Standard Spindles		
Slotted	Drilled	
1.53 Deep	Hole 3.18, Dia. 5.08	
x1.53 Wide	From End of Spindle	

How to Order

Please specify type, resistance value, tolerance and spindle details. Add inspection requirement where appropriate. e.g. MC1 $10K \pm 10\%$ PLAIN 25 mm

We will advise a Tyco part number against this description.