

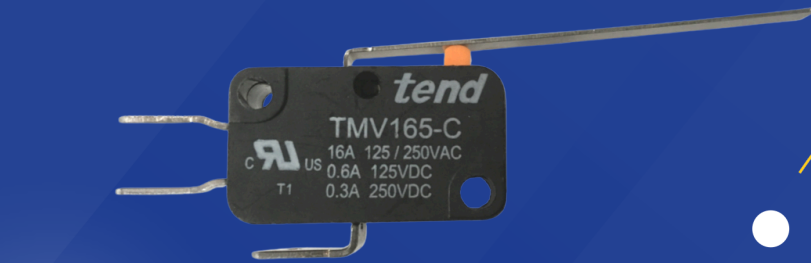


tend

ELECTRICAL COMPONENTS

Micro Switches

- Wide variety of actuators
- Completely sealed body
- 30mm, 40mm & 50mm sizes
 - 10A to 21A @ 250 Vac
 - DC versions available



The TM and TMV series of high precision micro switches features a wide variety of actuators to suit most high-speed switching applications.

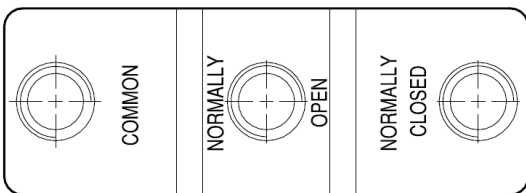
Available from stock at ITC, the TM and TMV series switches have a high switching capacity - 10A to 21A at 250Vac in a reliable thermoplastic housing. These switches may be installed in a wide range of applications from simple or precision on/off limits, presence/absence sensing, or embedded in pressure or temperature assemblies.

Features and Specifications

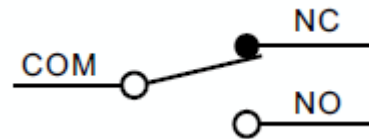
		TMV Series	TM Series (General Purpose & Sealed)
Operating speed		0.01mm to 1m/s (push button type)	
Operating frequency	Mechanical	240 operations/minute	
	Electrical	20 operations/minute	
Insulation resistance		100mΩ minimum (at 500Vdc)	
Contact resistance		15mΩ maximum	
Connection (NO, NC & Common)		.250x.032" quick connect tabs	Screw connection
Rated voltage/current		10A / 16A / 21A (see page 5)	15A
Dielectric strength	Non-contiguous terminals	1,000Vac, 50/60Hz for 1 minute	
	Between non-contiguous terminals	2,000Vac, 50/60Hz for 1 minute	
Shock	Mechanical durability	10m/sec ² (approx. 100G's)	
	Malfunction	3m/sec ² (approx. 30G's)	
Expected life	Mechanical	20,000,000 operations minimum	
	Electrical (1.7A, 110V)	100,000 operations minimum	500,000 operations minimum
Ambient temperature		-25 to 65° C	-25 to 80° C; Sealed -15 to 80°
Ambient humidity		85% RH maximum	85% RH max; Sealed 95% RH max
Weight		~8g	~22 to 58g
Approvals		cURus (UL 508 and CSA 22.2 NO. 14-13)	

Information subject to change without notice

Screw terminals diagram (TM series):



Contact Configuration:



TM Micro Switch 1300 Series

<p>TM-1300 Pin head plunger</p>	<p>TM-1301 Pin head with lever</p>
<p>TM-1303 Pin Head with roller</p>	<p>TM-1305 Slim plunger</p>
<p>TM-1306 Short button plunger</p>	<p>TM-1307 Long button plunger</p>
<p>TM-1308 Button plunger with roller</p>	<p>TM-1309 Cross roller plunger</p>

Information subject to change without notification

TM Micro Switch 1700 Series

<p>TM-1701 Flex lever (63mm)</p>	<p>TM-1702 Flex lever (23mm)</p>
<p>TM-1703 Medium lever (48.5) with roller</p>	<p>TM-1704 Short lever (26.6) with roller</p>
<p>TM-1705 155mm whisker</p>	<p>TM-1707 Short lever (26.6) with cross roller</p>
<p>TM-1709 Medium lever (50mm) with large roller</p>	<p>TM-1743 Double hinged roller lever</p>

Information subject to change without notification

- Completely sealed versions of the TM-1700 series are available with the addition of '-1' at the end of the part number i.e. TM-1701 becomes TM-1701-1.

TMV Compact Micro Switches

<p>TMV-160-C Pushbutton</p>	<p>TMV-161-C Long lever</p>
<p>TMV-162-C Short lever</p>	<p>TMV-163-C Long lever with roller</p>
<p>TMV-164-C Short lever with roller</p>	<p>TMV-165-C Extra long lever</p>
<p>TMV-166-C Crank lever</p>	

Information subject to change without notification

- 10A and 21A versions of the TMV series are available (TMV-10x-C & TMV-21x-C).



TMD Direct Current Micro Switches

Features and Specifications

TMD Series	
Dielectric strength	1,500Vac, 50/60Hz for 1 minute
Ambient temperature	-25 to 80° C
Weight	Approximately 27 - 36g

(the same as on page 2, except where listed above)

<p>TMD-1701</p>	<p>TMD-1702</p>
<p>TMD-1703</p>	<p>TMD-1704</p>

Information subject to change without notification

Accessories for TM Series[^]

<p>TAP-X Plastic boot</p>	<p>TAP-Y Plastic boot</p>
<p>TAP-Z Plastic boot</p>	<p>TM-C015 Replacement contact screws</p>

[^] for TM and TMD series, not suitable for TMV series; Information subject to change without notification



ELECTRICAL COMPONENTS

416.663.7223
 www.itcproducts.com
 50 Mural St Unit 8
 Richmond Hill, ON L4B 1E4



DIN Rail



DIN Rail Accessories



Hinged Enclosures



Thermal Management



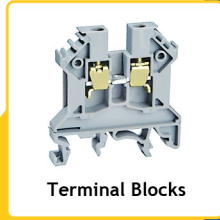
PANEL Lighting



Multipole Connectors



Plug and Socket Connectors



Terminal Blocks



Terminal Strips & Parallel Connectors



Interface Connectors



Pushbuttons & Control Stations



Led Light bulbs & Pilot Lights



Limit Switches



Micro Limit Switches



Safety Switches



Foot Switches



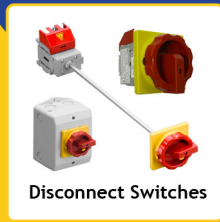
Circuit Breakers



Contactors & Starters



Variable Frequency Drives



Disconnect Switches



Fuses & Fuse Holders



Tower Lights & Signalling Devices



Power Continuity



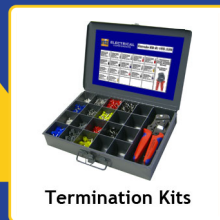
Ferrules



Colour Coded Lugs



Crimp Terminals



Termination Kits



Cable Glands



Thread Adapters



Cable Entry Systems



Wire Management



DIN Rail Cutters



Assembly Tables



Cutting & Stripping



Crimping Tools



Hole Cutting & Punching Tools

SOME OF OUR MANUFACTURING PARTNERS

