



Series 230MC MICRO SWITCH

- Excellent reliability.
- Long life and more operating force can be applied such as lightly force.
- Good feeling and more levers are applied.
- Applications: Joystick, TV game, Time recorder, Air conditioner, Food processor, Juice maker, Alarm, Mixer, Shredder machine, etc.



Ordering Information

Series	Actuator Type	Contact Form & Common Terminal Position	Terminal Type
230MC	00	1	A
	Actuator Type	Code	Terminal Type
	00: Pin plunger	1: SPDT ON/NC	A: Solder Terminal
	01: Short hinge lever	2: SPST-NC	C: Quick-connect Terminal 6.4x0.8 #250
	02: Hinge lever	3: SPST-NO	C2: Quick-connect Terminal 4.8x0.8 #187
	03: Long hinge lever		
	04: Simulated roller leaf lever		
	05: Short hinge roller lever		
	06: Hinge roller lever		

*Please contact CTS representatives for the special requests.

Specifications

Item	Standard
Rating	14(4)A 250V/125VAC, UL 61058-1 15A 250/125V AC GB14048.5
Insulating resistance	100M Ω min (DC 500V)
Dielectric strength	AC 1000V (50/60Hz for 1 minute)
Contact resistance	30m Ω max. (initial)
Operating Frequency	Mechanical: max. 120 operations/minute. Electrical: max. 30 operations/minute.
Operating Speed	0.5mm to 500mm/s (pin plunger models)
Vibration	10 to 55Hz, 1.5 mm double amplitude
Electrical life	100,000 cycles
Mechanical life	1,000,000 cycles
Degree of Protection	IP40 (Excluding the terminals)
Operating Temperature	-25°C ~ + 85°C
Operating Humidity	95% max. (for 5°C to 35°C)

Operating Characteristics

Actuator Type	00 Pin Plunger	01 Short Hinge Lever	02 Hinge Lever	03 Long Hinge Lever
Operating Force max.	300gf	300gf	160gf	80gf
Pretravel max.	1.5mm	1.8mm	3.4mm	8.0mm
Overtravel min.	0.8mm	0.6mm	1.8mm	3.0mm
Movement Differential max.	0.4mm	0.5mm	1.2mm	2.2mm
Releasing Force min	30gf	20gf	10gf	5gf
Operating Position	14.7±0.4mm	15.2±0.6mm	15.2±1.5mm	15.2±2.6mm

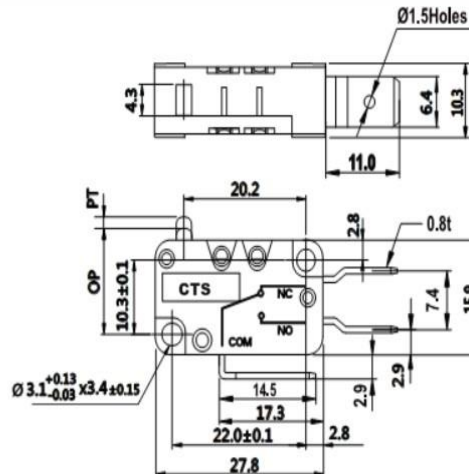
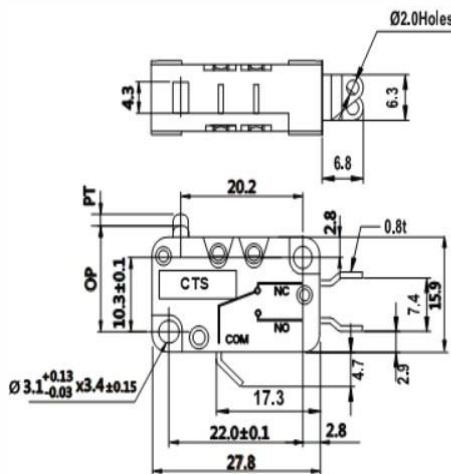
Actuator Type	04 Simulated roller leaf lever	05 Short Hinge Roller Plunger	06 Hinge Roller Plunger
Operating Force max.	160gf	300gf	160gf
Pretravel max.	3.4mm	1.5mm	3.4mm
Overtravel min.	1.8mm	0.8mm	1.8mm
Movement Differential max.	1.2mm	0.4mm	1.2mm
Free Position max.	10gf	30gf	10gf
Operating Position	18.7±1.2mm	20.7±0.6mm	20.7±1.5mm

Outline Dimension

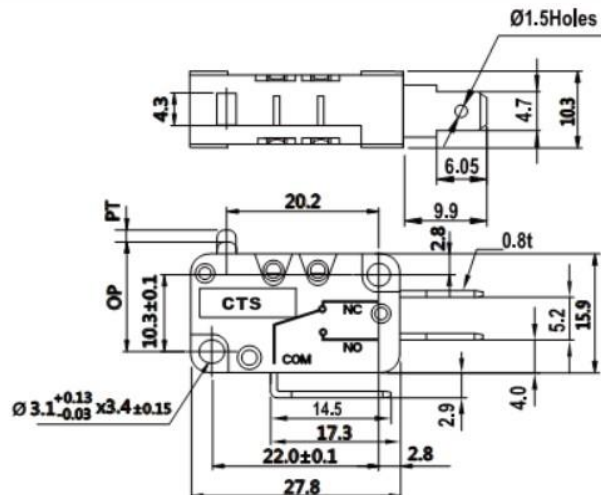
Terminal

(A): Solder Type

(C): Quick-connect 6.4x0.8 Type (#250)

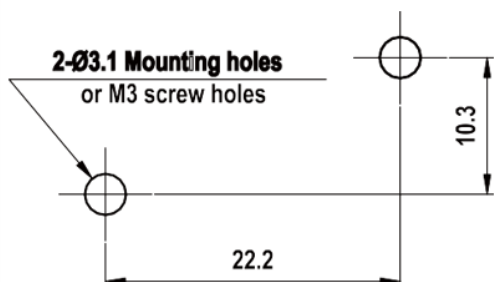


(C2): Quick-connect 4.8x0.8 Type (#187)

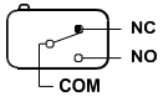
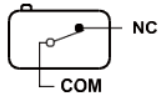
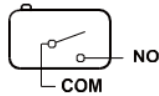


Mounting

Mount the switch by tightening the two M3 screws with a matching driver, using appropriate torque (4-6 kg-cm).



Contact Form & Common Terminal Position

Contact Form	1 : SPDT	2 : SPST-NC	3 : SPST-NO
Common Terminal Position	button 	button 	button 

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