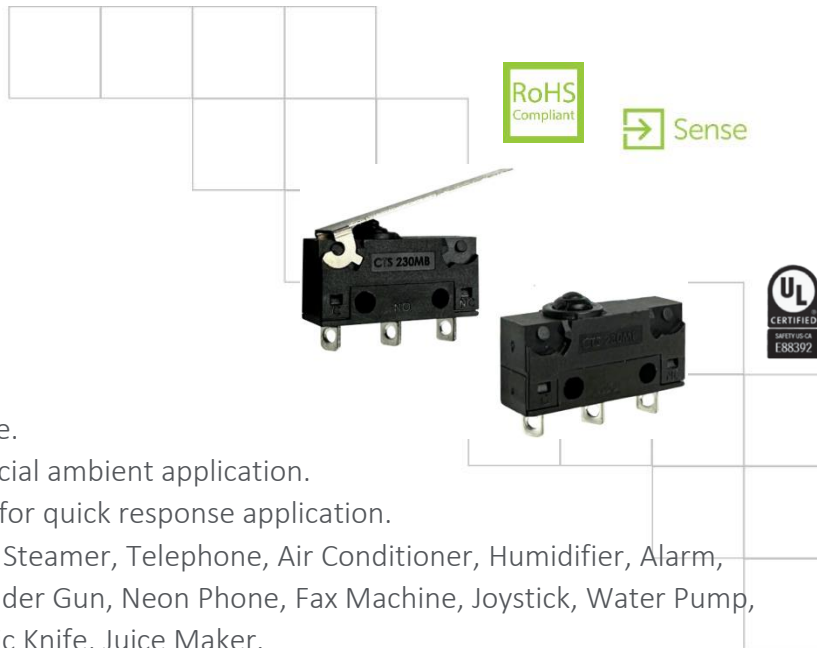




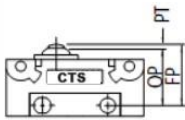
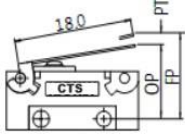
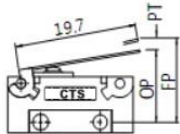
- Coil spring design, long mechanical life.
- Excellent waterproof, suitable for special ambient application.
- Sensitive snap action switch, suitable for quick response application.
- Applications: Automotive Door Latch, Steamer, Telephone, Air Conditioner, Humidifier, Alarm, Security Device, Mixer & Chopper, Solder Gun, Neon Phone, Fax Machine, Joystick, Water Pump, Money Sorter, Food Processor, Electric Knife, Juice Maker.

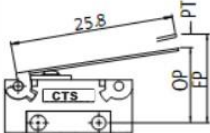
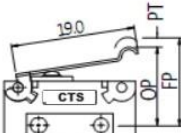
Model	Contact	Actuator Type	Terminal Type
230MB0	0	00	A
	Contact 0: Silver Alloy Contact 1: Gold plated	Actuator Type 00: Pin plunger 01: Short lever 02: Middle lever 03: Long lever 04: Simulated roller leaf lever 05: wheel lever	Terminal Type A: Solder P: PCB

Specifications

Item	Standard
Rating	6A 250V or 125V AC, 0.1A 24VDC
Insulating resistance	100M Ω min (DC 500V)
Dielectric strength	AC 1000V (50/60Hz for 1 minute)
Contact resistance	50m 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	200,000 cycles (at 0.1A 24VDC)
Mechanical life	1,000,000 cycles
Degree of Protection	IP67 (Excluding the terminals)
Operating Temperature	-40°C ~ +105°C
Operating Humidity	95% max. (for 5°C to 35°C)

Operating Characteristics

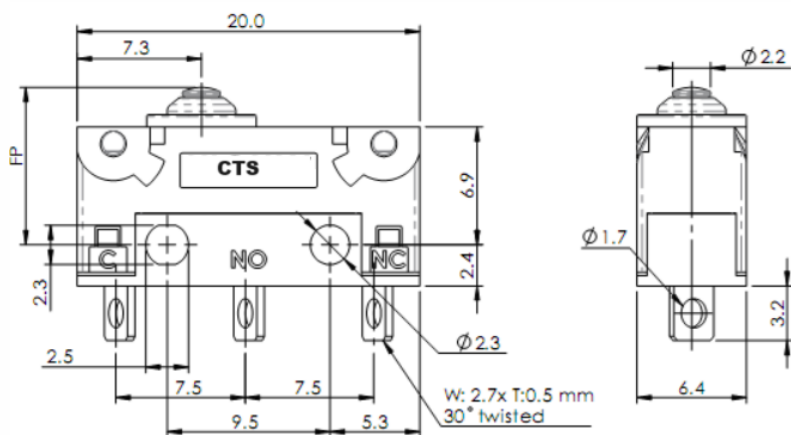
Actuator Type	00 Pin Plunger	01 Short Lever	02 Middle Lever
			
Operating Force max.	200gf	80gf	75gf
Pretravel max.	1.0mm	4.5mm	4.5mm
Overtravel min.	0.6mm	1.5mm	1.5mm
Movement Differential max.	0.1mm	0.5mm	0.6mm
Free Position max.	9.3mm	13.7mm	14.2mm
Operating Position	8.4±0.5mm	10.8±1.7mm	11.0±1.8mm

Actuator Type	03 Longer Lever	04 Simulated roller leaf lever	05 Wheel Lever
			
Operating Force max.	60gf	80gf	75gf
Pretravel max.	4.5mm	4.5mm	4.5mm
Overtravel min.	1.5mm	1.5mm	1.5mm
Movement Differential max.	0.8mm	0.5mm	0.6mm
Free Position max.	16.2mm	15.0mm	19.5mm
Operating Position	12.0±2.5mm	12.2±1.6mm	16.6±1.6mm

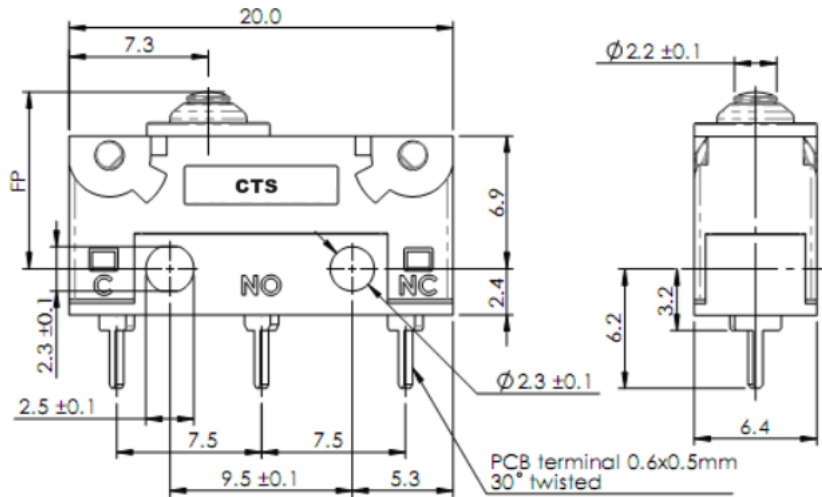
Outline Dimension

Terminal

(A): Solder Type



(P): P.C.B Type



Mounting

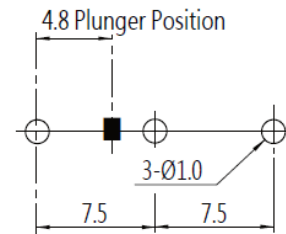
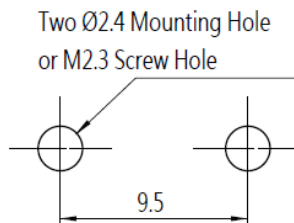
Use M2.3 mounting screws with plain washers or spring washers to securely mount the switch.

Tighten the screws with torque of 0.23 to 0.26 N·m {2.3 to 2.7 kgf ·cm}

Overforce of torque may result in deterioration of the sealing or damage.

P.C.B Layout

To solder the lead to the terminal, apply a soldering iron rated at 60 W max. (temperature of soldering iron: 360°C max.) for no more than 5 seconds.



230MB Cable Type

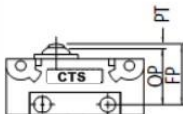
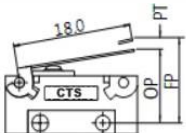
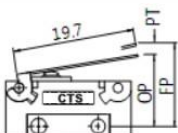


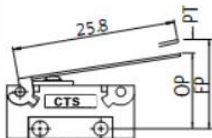
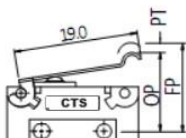
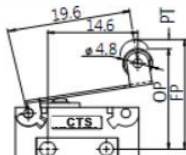
Ordering Information

Model	Contact	Actuator Type	Cable Exit	Circuit Arrangement
230MB0	0	00	C	1
	↓	↓	↓	↓
	Contact	Actuator Type	Terminal Type	Terminal Type
	0: Silver Alloy Contact	00: Pin plunger	C: Cable, Side Exit. (Opposite Plunger) (300mm UL 1015)	1: SPDT
	1: Gold plated	01: Short lever	D: Cable, Bottom Exit. (300mm UL1015)	2: SPST NC
		02: Middle lever	L: Cable, Side Exit. (Plunger End) (300mm UL1015)	3: SPST NO
		03: Long lever		
		04: Simulated roller leaf lever		
		05: wheel lever		

*Please contact CTS representatives for the special requests.

Operating Characteristics

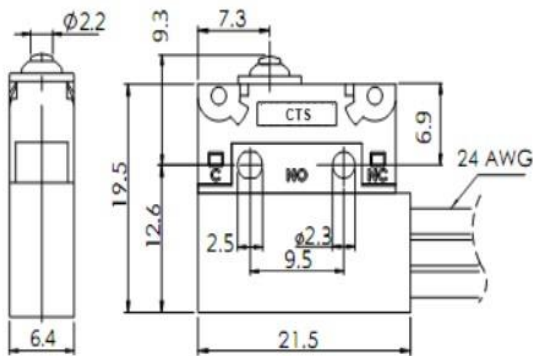
Actuator Type	00 Pin Plunger	01 Short Lever	02 Middle Lever
			
Operating Force max.	200gf	80gf	75gf
Pretravel max.	1.0mm	4.5mm	4.5mm
Overtravel min.	0.6mm	1.5mm	1.5mm
Movement Differential max.	0.1mm	0.5mm	0.6mm
Free Position max.	9.3mm	13.7mm	14.2mm
Operating Position	8.4±0.5mm	10.8±1.7mm	11.0±1.8mm

Actuator Type	03 Longer Lever	04 Simulated roller leaf lever	05 Wheel Lever
			
Operating Force max.	60gf	80gf	75gf
Pretravel max.	4.5mm	4.5mm	4.5mm
Overtravel min.	1.5mm	1.5mm	1.5mm
Movement Differential max.	0.8mm	0.5mm	0.6mm
Free Position max.	16.2mm	15.0mm	19.5mm
Operating Position	12.0±2.5mm	12.2±1.6mm	16.6±1.6mm

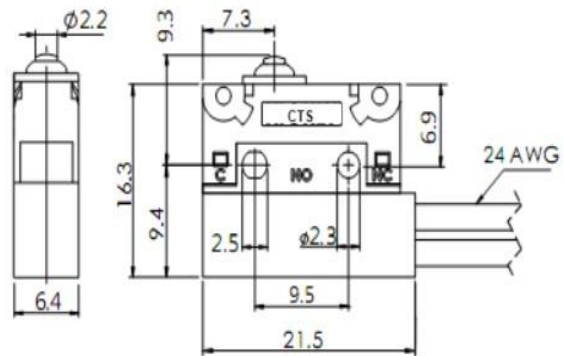
Outline Dimension

Cable, Side Exit. (Opposite Plunger)

(C1): SPDT

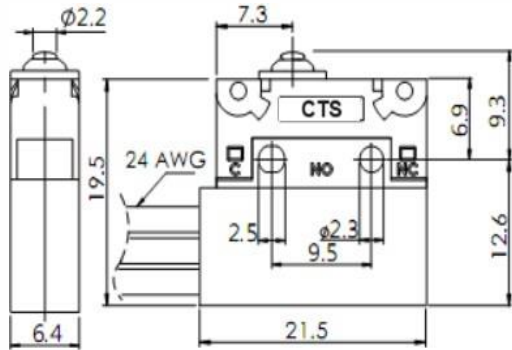


(C2): SPST NC / (C3): SPST NO

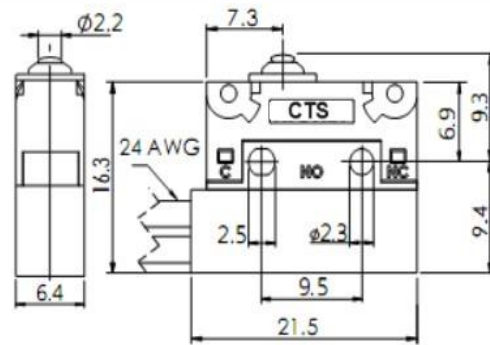


Cable, Side Exit. (Plunger End)

(L1): SPDT

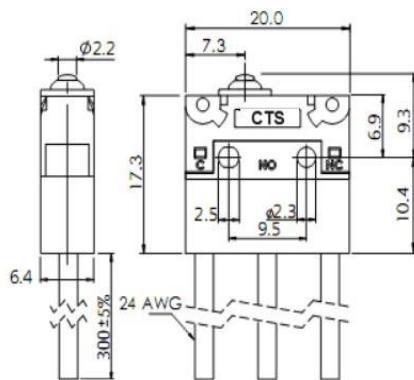


(L2): SPST NC / (L3): SPST NO

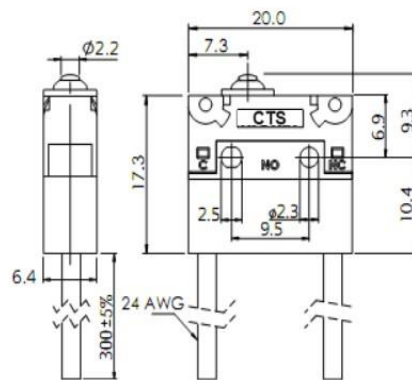


Cable, Bottom Exit.

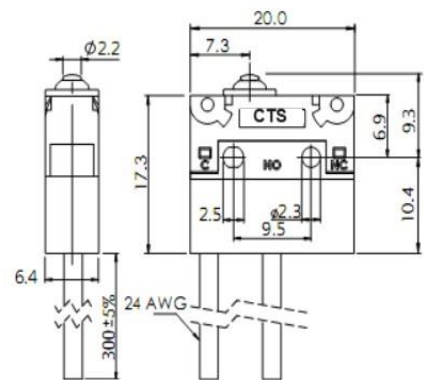
(D1): SPDT



(D2): SPST NC

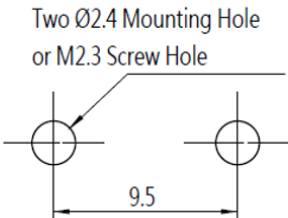


(D3): SPST NO

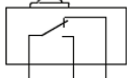
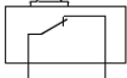


Mounting

Use M2.3 mounting screws with plain washers or spring washers to securely mount the switch.
Tighten the screws with torque of 0.23 to 0.26 N•m {2.3 to 2.7 kgf •cm}
Overforce of torque may result in deterioration of the sealing or damage.



Circuit Arrangement

Contact form	1: SPDT	2: SPST-NC	3: SPST-NO
Common terminal position	Button  COM NO NC Black Blue Brown	Button  COM NC Black Brown	Button  COM NO Black Blue

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