

# MICRO SWITCHES



## V3 SERIES

( Micro-Disconnection-Gap < 3mm )

### SPECIFICATIONS

#### Contact Resistance(initial)

Max. 30 mΩ

Measured by ohm meter - open voltage < 1VDC, driver current -100 mA

#### Insulation Resistance (at 500 VDC / minute)

Min. 100 MΩ

#### Dielectric Strength

Min. 1000VAC(50-60HZ)/minute between Live parts.

Min. 1500VAC(50-60HZ)/minute between Live parts and dead metal parts

#### Operating Temperature Range

-40°C to 125°C ( with no icing )

#### Vibration

10~55Hz, displacement 0.75 mm (p-p)

#### Electrical Service Life

All rating - Min. 10,000 operations

#### Electrical Operating Frequency

All rating 10~30 operations per minute

#### Mechanical Service Life

Min. 5,000,000 operations

#### Mechanical Operating Frequency

120 operations per minute

#### Operating application of the switch

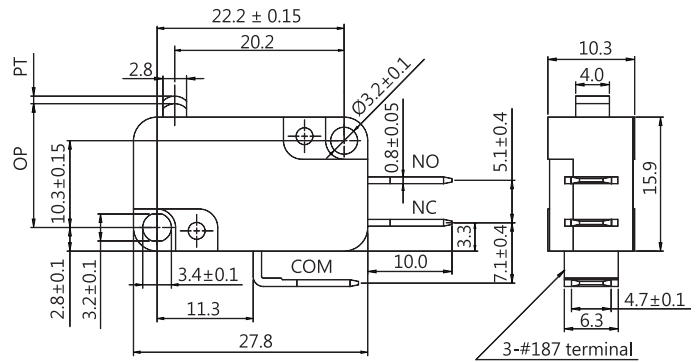
Set the switch pushing distance from 60% to 90% of the specified OT value

### APPLICATIONS

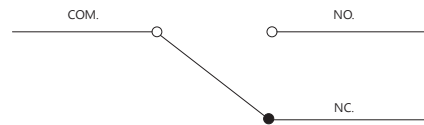
Joystick, TV game, Time Recorder, Air Conditioner, Food Processor, Juice Maker, Alarm, Mixer, Shredder Machine, Power Tool..

### DIMENSIONS

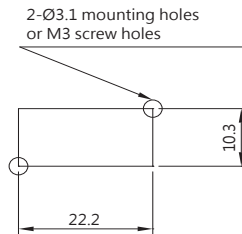
Unless otherwise specified, a tolerance of ±0.4mm applies to all dimensions.



### CONTACT CONFIGURATION



### MOUNTING HOLES



### CERTIFICATE INFORMATION

Model Name	UL · cUL	ENEC
V3-10	10.1A 125/250VAC 1/2 HP 125/250 VAC (Temp:100°C) Min. 6,000 operations	10(4)A 125/250VAC μT100 1E4
V3-16	16A 125/250VAC 1/2 HP 125/250 VAC (Temp:125°C) Min. 6,000 operations	16(4)A 125/250VAC μT125 1E4
V3-20	20.1A 125/250VAC 1 HP 125/250 VAC (Temp:100°C) Min. 6,000 operations	20.1A 125/250VACc μT125 1E4 10.1(8)A 125/250VAC μT125 1E4
V3-25	25A 125/250VAC 1 HP 125/250 VAC (Temp:100°C), Min. 6,000 operations	25.1A 125/250VAC μT125 1E4 10.1(8)A 125/250VAC μT125 1E4

### THE SELECTION OF RATING & FORCE

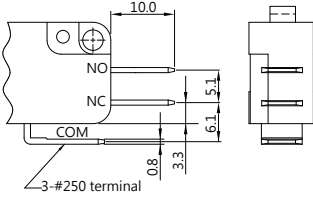
MODEL	Rating	L K	S R	H G
V3	10A, 10(4) A	*	*	*
	16A, 16(4) A	*	*	*
	20.1 A	*	*	*
	25 A	*	*	*
	10.1(8)A	*	*	*

NOTE : The Symbol " \* " to represent the result is accepted

TERMINAL TYPES

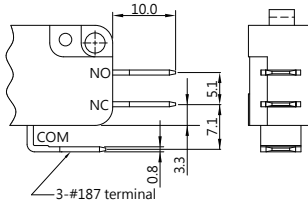
C TYPE

250 Series, Straight (0.8t)



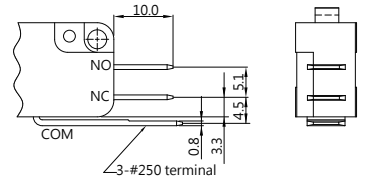
D TYPE

187 Series, Straight (0.8t)



G TYPE

250 Series, PAST 5 Type (0.8t)



ORDERING INFORMATION

V	3	—	2	5	S	—	0	1	D	3	—	Z
SERIES PREFIX			RATING CURRENT		OPERATING FORCE		ACTUATOR TYPE		ACTUATOR TYPE	CIRCUIT ARRANGEMENT		ROHS CODE
			10 10.1A 125/250VAC		L 8.2		00		C 250 SERIES(C)	3 S.P.D.T.		
			16 16A 125/250VAC		S		01		D 187 SERIES(D)	4 S.P.S.T. NO		
			20 20.1A 125/250VAC		H		02		G 250 SERIES(G)	5 S.P.S.T. NC		
			25 25A 125/250VAC		K		03					
					R		04					
					G		05					
							06					

OPERATING CHARACTERISTICS

SWITCH TYPE	PART SUFFIX	OF Max. (gf)			OP (mm)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)
		L	S	H				
		K	R	G				
V3- □□□□ -00 □□ -Z		150	373	505	14.7±0.5	1.3	1.3	0.12
		-	-	-	-	-	-	-
V3- □□□□ -01 □□ -Z		145	316	435	15.4±0.8	2.0	0.70	0.2
		75	158	270	15.6±1.5	6.6	1.40	2.70
V3- □□□□ -02 □□ -Z		75	188	240	15.8±1.5	3.5	1.5	0.3
		45	82	130	16.6±2.3	6.0	3.0	0.6
V3- □□□□ -03 □□ -Z		40	98	135	16.0±2.82	7.5	4.0	1.0
		25	50	80	18.0±4.32	12.0	6.0	1.2
V3- □□□□ -04 □□ -Z		80	176	270	19.0±1.3	3.0	1.5	0.3
		50	115	145	19.9±2.0	5.5	3.5	0.5
V3- □□□□ -05 □□ -Z		160	358	505	20.7±0.7	1.5	1.0	0.15
		95	187	358	21.2±1.0	2.5	2.0	0.2
V3- □□□□ -06 □□ -Z		80	160	255	21.0±1.2	3.0	1.7	0.25
		50	87	140	21.9±2.2	5.0	4.5	0.35

## CAUTIONS:

### 注意事項

1. To secure the switch, please use an M3 small screw on a flat surface and tighten with plane washers or spring washers to securely mount the switch, using a maximum torque of 0.59 N•m.  
若使用定位孔型式，請使用M3小型螺絲固定在平面上，並使用平墊圈或者彈性墊圈以便安全的鎖固開關，鎖固扭力請勿超過0.59 N•m.
2. To ensure the best performance of the switch, when handling/installing the switch, please do not apply uneven pressure to the direction indicated by the arrow in (Figure -1). Any uneven pressure or pressure direction other than the operating direction might be harmful or damage the switch performance.  
為確保開關正常運作，安裝及取用開關時，請勿直接施加壓力在(圖-1)中箭所指示的方向。如圖所示，任何不對稱的壓力或作動方向以外的壓力都不適在開關按柄上。

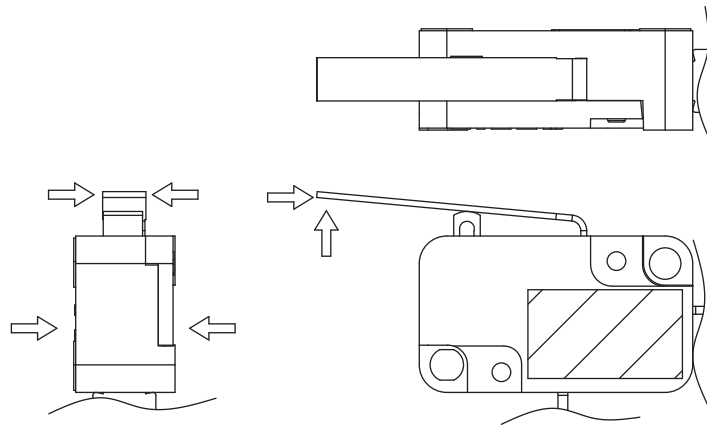


Figure-1