

Best-Selling Basic Switch Boasting High Precision and Wide Variety

■ FEATURES

- Wide variety of actuators
- High breaking capacity (15A)

■ SPECIFICATIONS

● RATINGS

- High precision
- Wide operating speed range

Rated voltage (V)	Noninductive load (A)				Inductive load (A)				Inrush current (A)	
	Resistive load		Lamp load		Inductive load		Motor load			
	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	15	3	1.5	15	5	2.5	30	15		
250 VAC	15	2.5	1.25	15	3	1.5				
500 VAC	3	1.5	0.75	2.5	1.5	0.75				
8 VDC	15	3	1.5	15	5	2.5	max.	max.		
14 VDC	15	3	1.5	10	5	2.5				
30 VDC	6(2)	3	1.5	5	5	2.5				
125 VDC	0.4	0.4	0.4	0.05	0.05	0.05				
250 VDC	0.2	0.2	0.2	0.03	0.03	0.03				

NOTES: 1. Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7msec (DC).
2. Lamp load has an inrush current of 10 times the steady-state current, while motor load has an inrush current of 6 times the steady-state current.

● CHARACTERISTICS

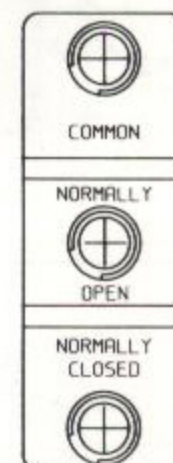
Operating speed	0.01mm to 1m/sec
Operating frequency	Mechanically: 240 operations/min. Electrically: 20 operations/min.
Contact resistance	15m Ω max. (initial)
Insulation resistance	100M Ω min. (at 500 VDC)
Dielectric strength	1,000 VAC, 50/60 Hz for 1 minute between non-continuous terminals 2,000 VAC, 50/60 Hz for 1 minute between current-carrying part and ground
Vibration	Mechanical durability: 10 to 55Hz 1.5mm double amplitude
Shock	Mechanical durability: Approx. 1,000m/sec ² (approx. 100G's) Malfunction durability: Approx. 300 m/sec ² (approx. 30 G's)
Ambient operating temperature	General purpose type: -25° to +80°C Sealed type: -15 to 80°C
Humidity	General purpose type: 85% RH max. Sealed type: 95% RH
Service life	Mechanically: 20,000,000 operations min Electrically: 500,000 operations min.
Weight	Approx. 22 to 58g

■ OPERATION CHARACTERISTICS

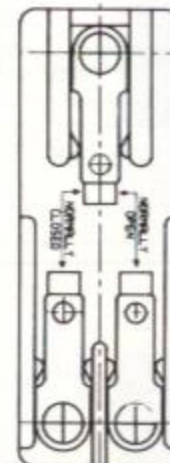
TYPE	VM 1300	VM 1301	VM 1303	VM 1305	VM 1306	VM 1307	VM 1308	VM 1309
OF max.	350 g	150 g	150 g	350 g	350 g	350 g	350 g	350 g
RF min.	114 g	14 g	14 g	114 g	114 g	114 g	114 g	114 g
PT max.	0.4 mm	4 mm	4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm	0.4 mm
OT min.	0.13 mm	1.6 mm	1.6 mm	1.6 mm	1.6 mm	5.5 mm	3.58 mm	3.58 mm
MD max.	0.05 mm	1.3 mm	1.3 mm	0.05 mm	0.05 mm	0.05 mm	0.05 mm	0.05 mm
FP max.		20.6 mm	31.8 mm					
OP	15.9 ± 0.4 mm	17.4 ± 0.8 mm	28.6 ± 0.8 mm	28.2 ± 0.5 mm	21.5 ± 0.5 mm	21.8 ± 0.8 mm	33.4 ± 1.2 mm	33.4 ± 1.2 mm

- 15A125,250VAC
- TERMINAL TYPE

Screw Type
None



Solder Type
-A



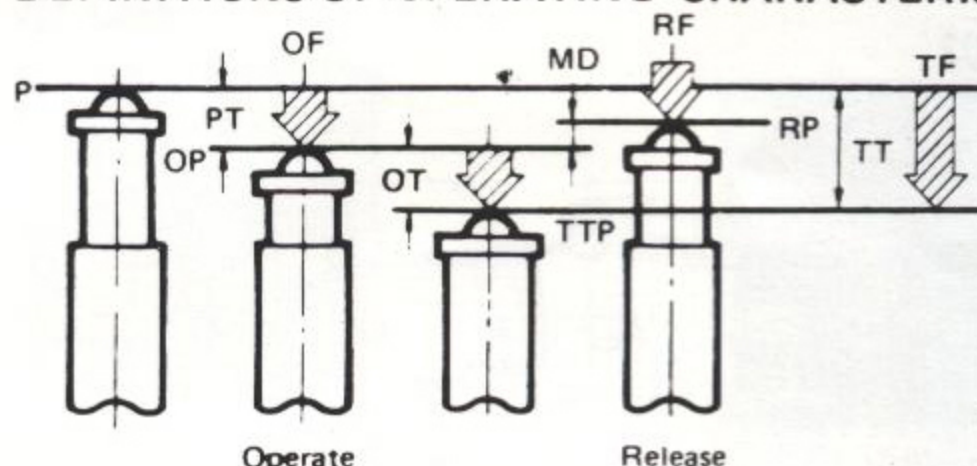
Tab Type
-C



● CONTACT CONFIGURATION



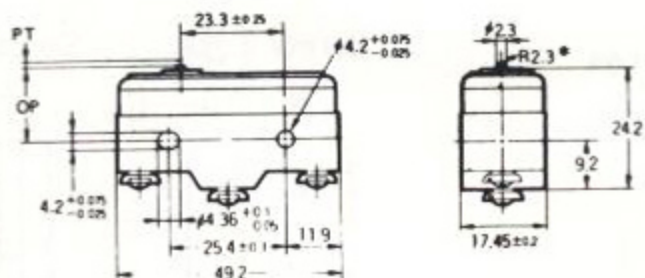
DEFINITIONS OF OPERATING CHARACTERISTICS:



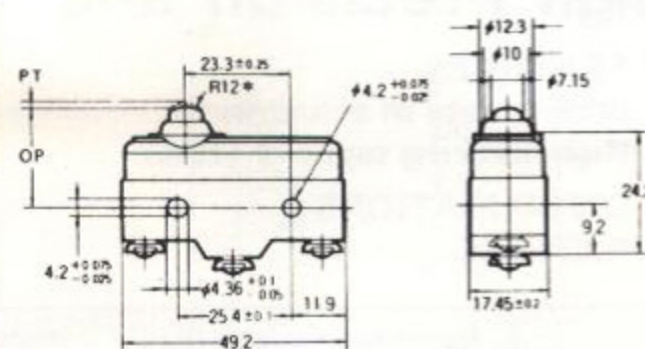
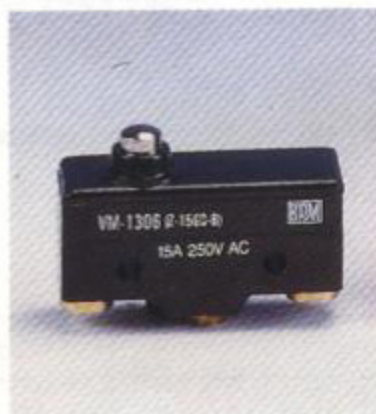
- OF: Operating Force
- RF: Releasing Force
- TF: Total Force
- FP: Free Position
- OP: Operating Position
- RP: Releasing Position
- TTP: Total Travel Position
- PT: Pretravel
- OT: Overtravel
- MD: Movement Differential
- TT: Total Travel

DIMENSIONS

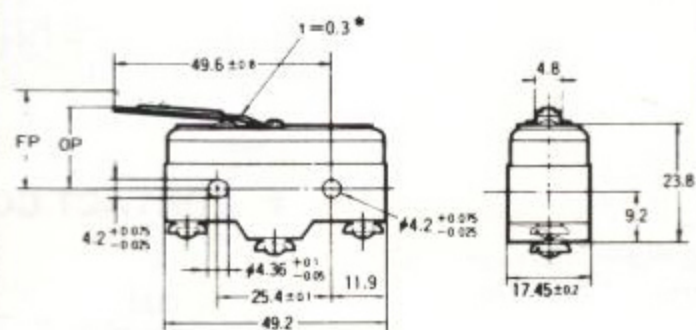
VM-1300



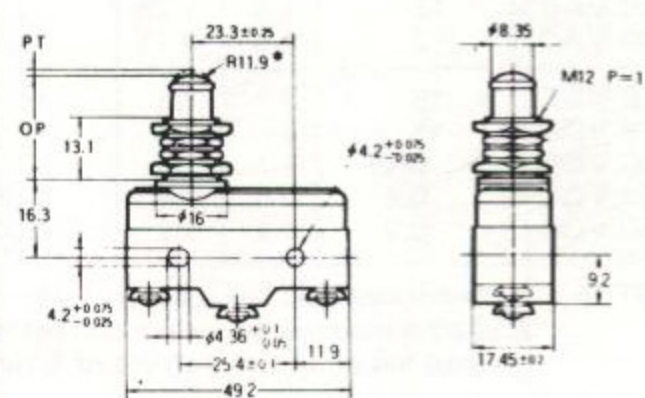
VM-1306



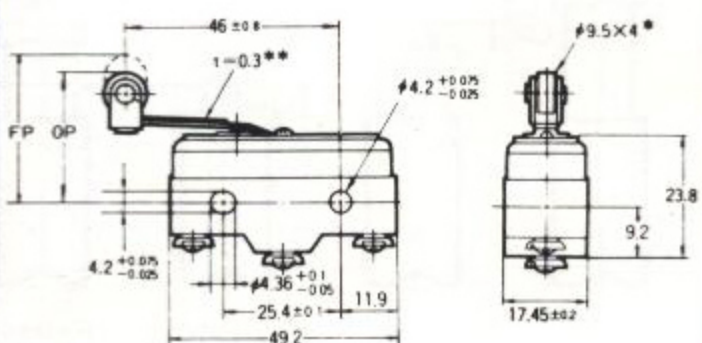
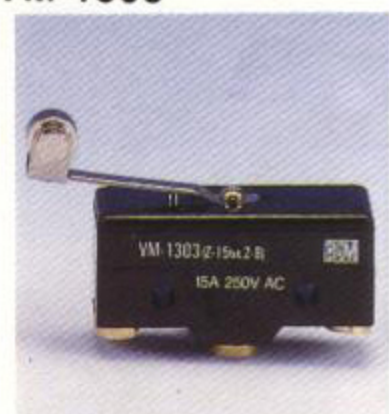
VM-1301



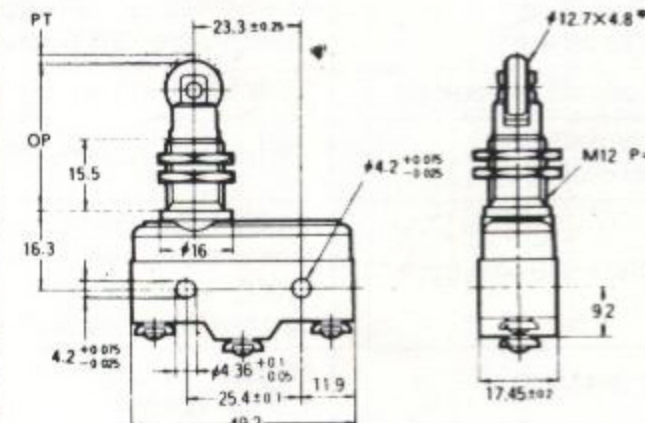
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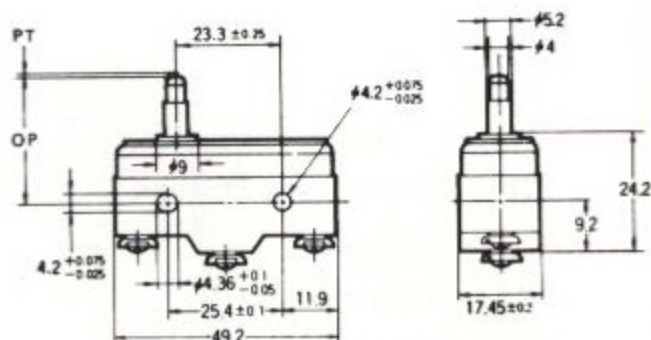
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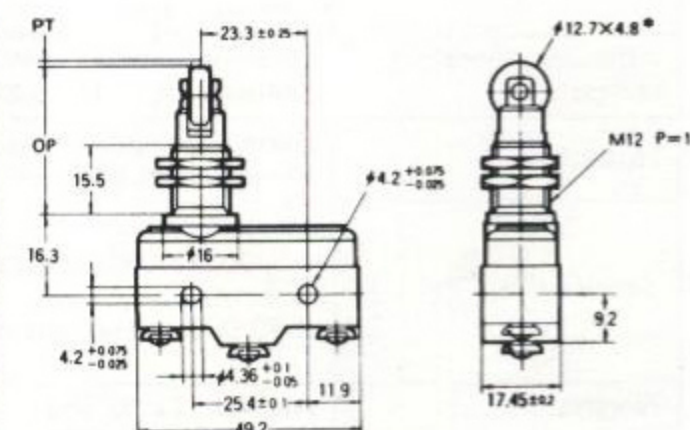
VM-1308



VM-1305

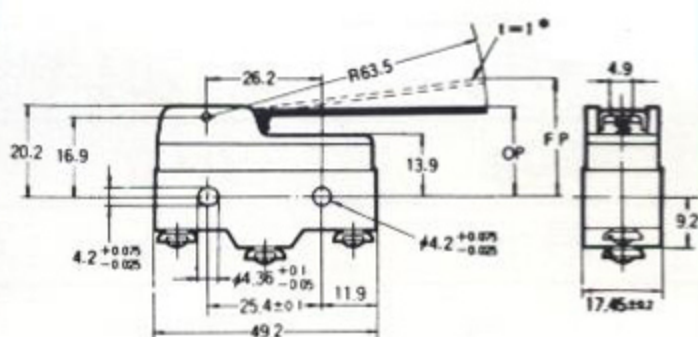


VM-1309

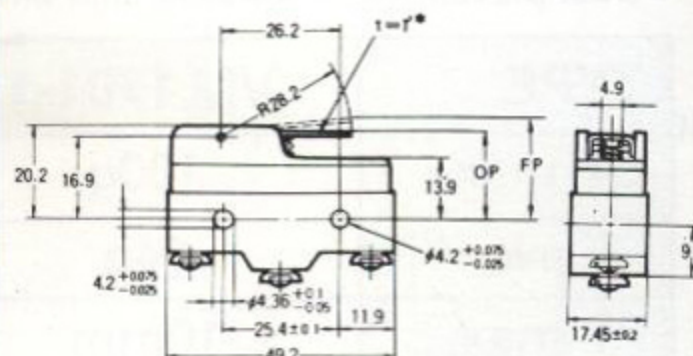


TYPE	VM 1701	VM 1702	VM 1703	VM 1704	VM 1705	VM 1743	VM 1401	VM 1501
OF max.	70 g	100 g	160 g	160 g	10 g	160 g	600 g	500 g
RF min.	14 g	28 g	22 g	42 g	3 g	42 g	300 g	170 g
PT max.	10 mm	5 mm	7.1 mm	2.7 mm	20 mm	2.7 mm	3 mm	5 mm
OT min.	5.6 mm	2 mm	4 mm	2.4 mm	5.6 mm	2.4 mm	6 mm	12.7 mm
MD max.	1.27 mm	1 mm	1.02 mm	0.5 mm	3 mm	0.5 mm	2 mm	2.2 mm
FP max.	28.2 mm	24.8 mm	36.5 mm	32.5 mm		43.6 mm	41 ± 1.6 mm	44.5 ± 1.6 mm
OP	19 ± 0.8 mm	19 ± 0.8 mm	30.2 ± 0.8 mm	30.2 ± 0.4 mm	19 ± 0.8 mm	43.1 ± 0.8 mm	40.4 ± 1.6 mm	40.4 ± 1.6 mm

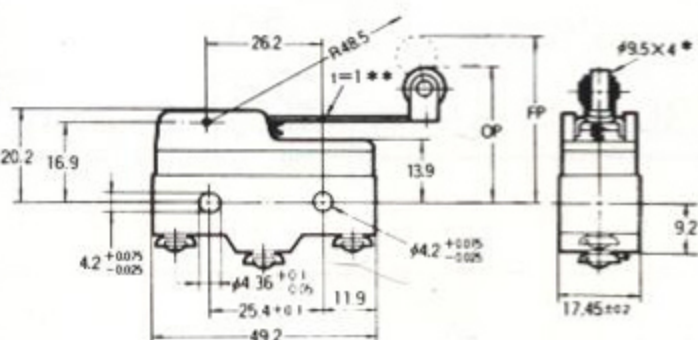
VM-1701



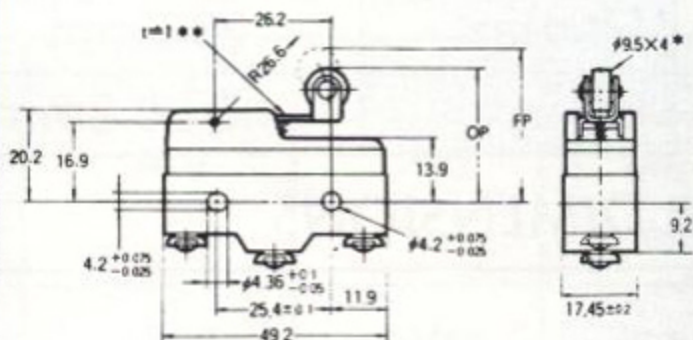
VM-1702



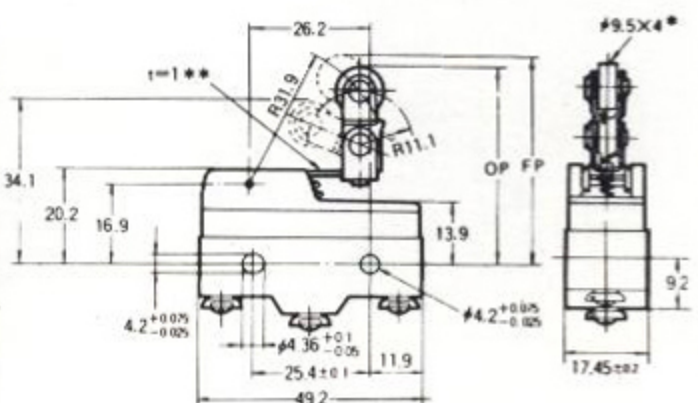
VM-1703



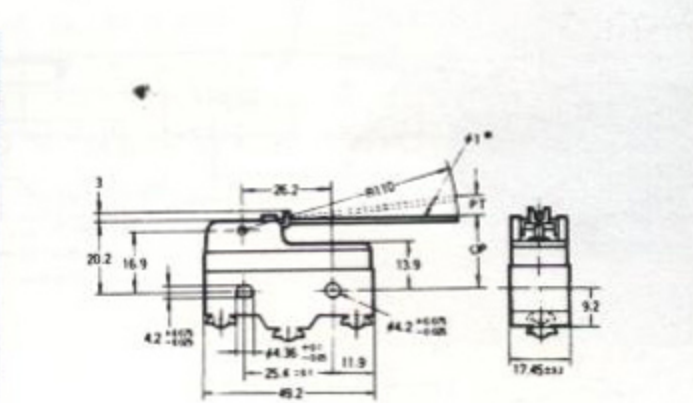
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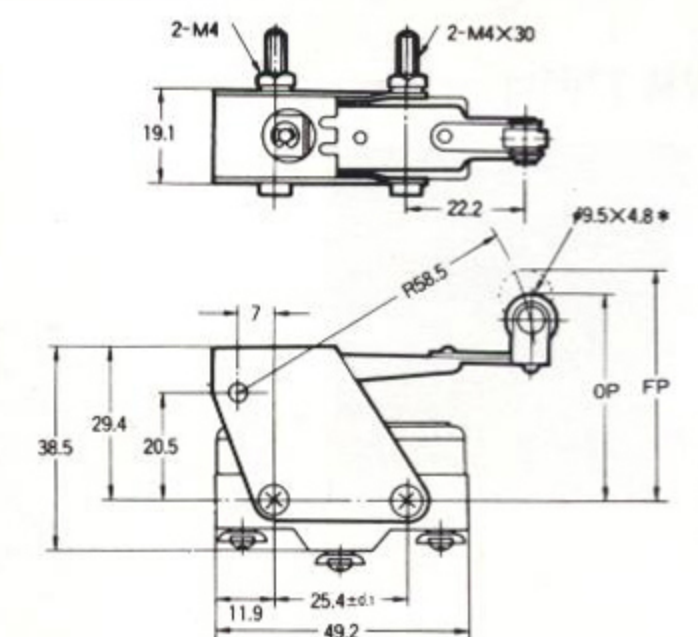
VM-1743



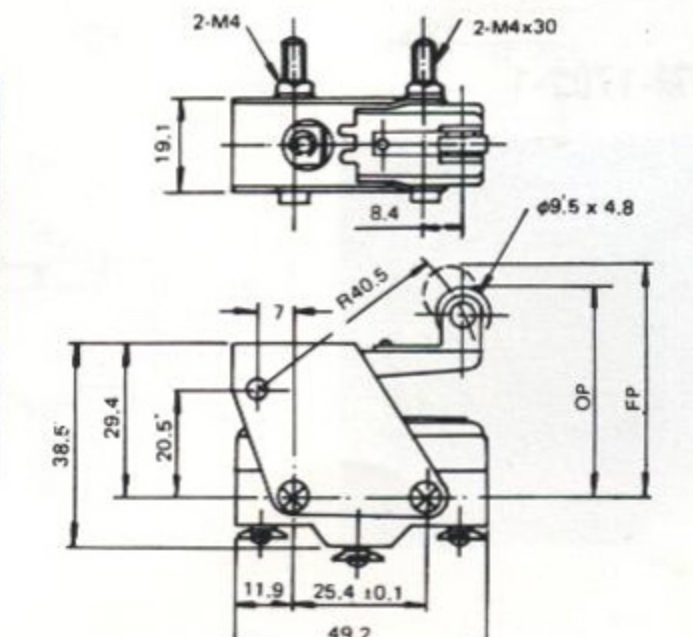
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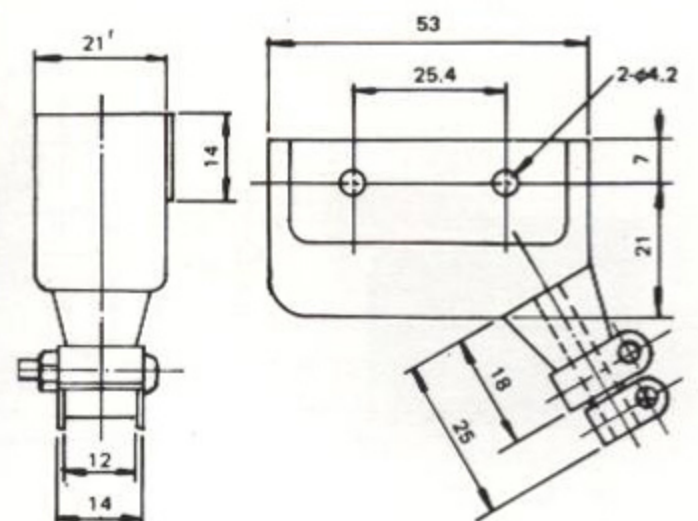
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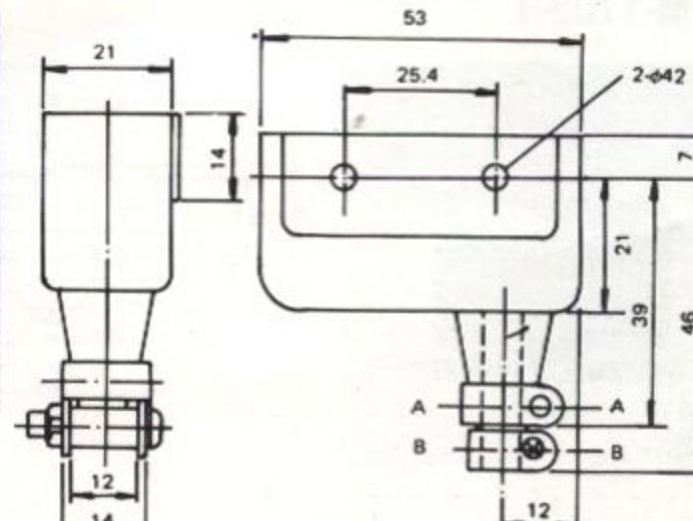
VM-1501

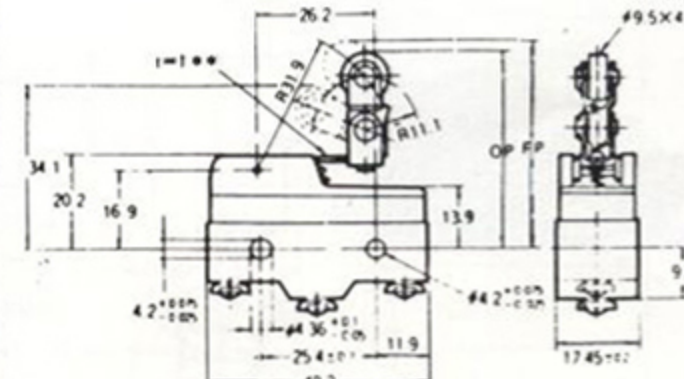


VAP-Y



VAP-Z

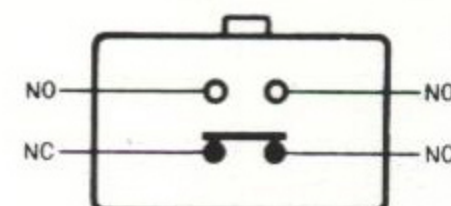




RATINGS

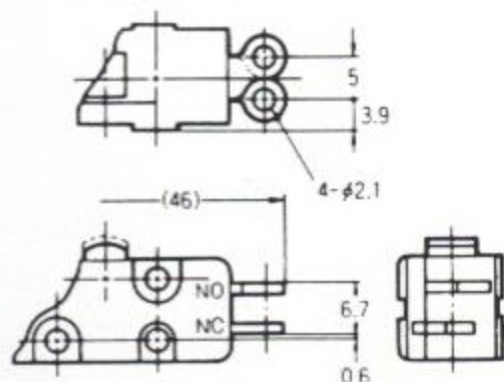
Rated voltage (V)	Noninductive load (A)Inductive load (A)								Inrush Current (A)	
	Resistive load		Lamp load		Inductive load		Motor load			
	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	10		3	1.5			4	2	30 Max.	15 Max.
250 VAC	10		2	1	10		3	1.5		
8 VDC	10		6	3	10		6			
14 VDC	10		6	3	10		6			
30 VDC	6		4	3	6.0		4			
125 VDC	0.8		0.2	0.2	0.8		0.2			
250 VDC	0.4		0.1	0.1	0.4		0.1			

CONTACT CONFIGURATION

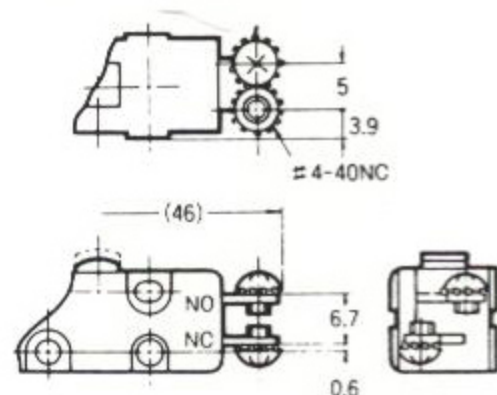


TERMINAL TYPE

VW-101A
Solder Type



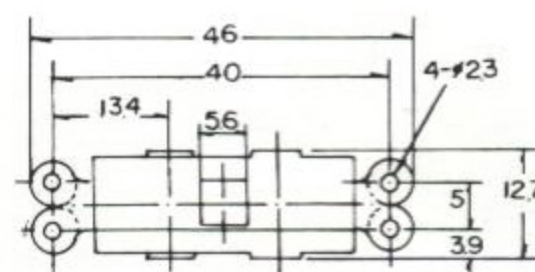
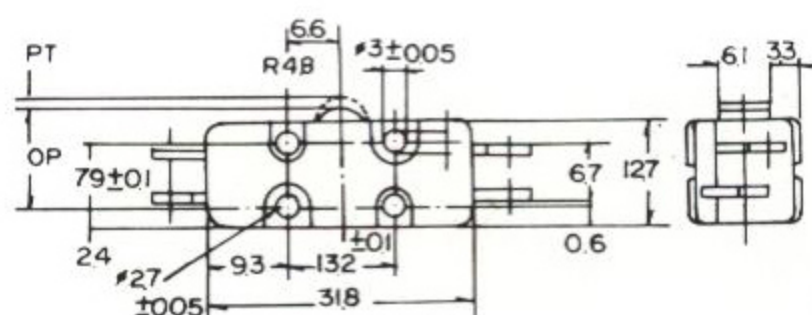
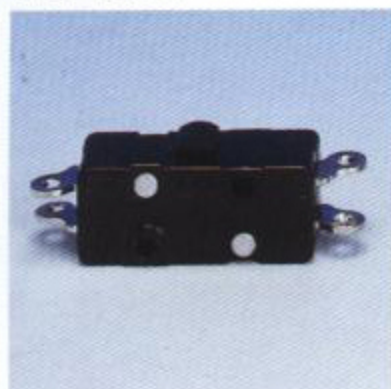
VW-101B
Screw Type



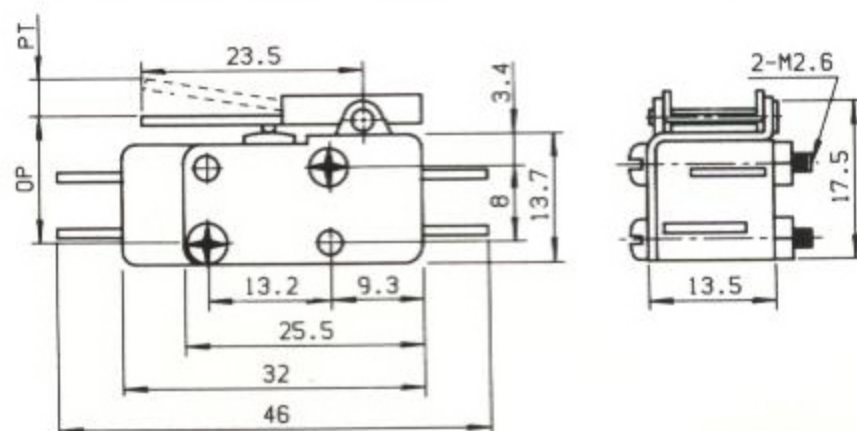
OPERATING CHARACTERISTICS

TYPE	VW-101 ^A _B	VW-1012 ^A _B	VW-1014 ^A _B
OF max.	400g	200g	240g
RF min	114g	60g	70g
PT max.	1.6mm	3.5mm	3mm
OT min	0.25mm	1.8mm	1.2mm
MD max	0.65mm	1.6mm	2mm
OP	11.7±0.4mm	14.6±0.8mm	25.3±0.8mm

VW-101A



VW-1012A



VW-1014A

