

Economical, High Utility Enclosed Switch

FEATURES

- High precision and long life (10,000,000 mechanical operations)
- Sealed with gasket diaphragm to provide high sealing property without use of any adhesive or pin.

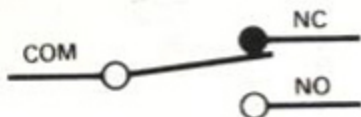
SPECIFICATIONS

RATINGS

Rated voltage (V)	Non-inductive load (A)				Inductive load (A)			
	Resistive load		Lamp load		Inductive load		Motor load	
	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.
125 VAC	10		3	1.5	10		5	2.5
250 VAC	10		2.5	1.25	10		3	1.5
480 VAC	3		1.5	0.75	2.5		1.5	0.75
8 VAC	10		3	1.5	6		6	5
14 VDC	10		3	1.5	6		6	5
30 VDC	8		3	1.5	6		5	2.5
125 VDC	0.5		0.4		0.05		0.05	
250 VDC	0.25		0.2		0.03		0.03	

- NOTES: 1. Inductive load: power factor=0.4; time constant =7msec.
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.

CONTACT CONFIGURATION

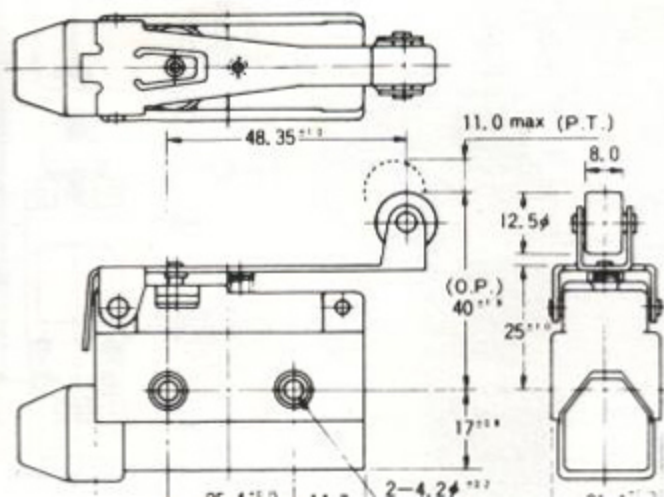


OPERATING CHARACTERISTICS

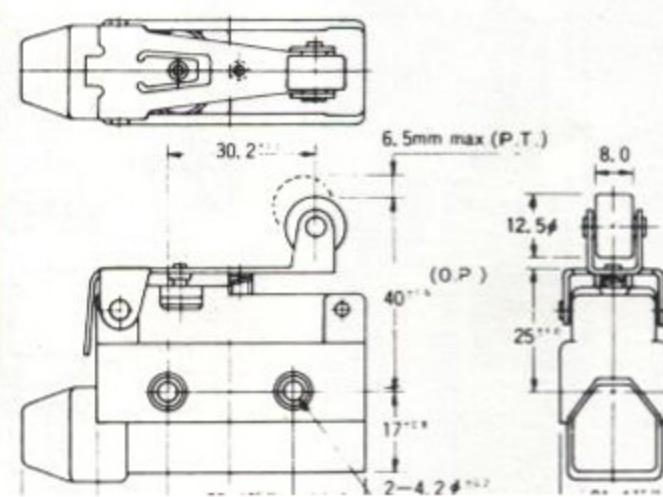
TYPE	VM-7100	VM-7110	VM-7310	VM-7311	VM-7312	VM-7120	VM-7140	VM-7121	VM-7141	VM-7124	VM-7144	VM-7166
OF max.	600g	600g	600g	600g	600g	150g	220g	180g	240g	200g	280g	120g
RF min.	100g	100g	100g	100g	100g	40g	60g	50g	80g	60g	100g	
PT max.	2.0mm	2.0mm	2.0mm	2.0mm	2.0mm	13.5mm	8.5mm	11.0mm	6.5mm	11mm	6.5mm	25mm
OT min.	0.8mm	5.0mm	6.0mm	6.0mm	6.0mm	4.0mm	2.5mm	3.0mm	2.0mm	3.0mm	2.0mm	11mm
MD max.	0.8mm	0.8mm	0.8mm	0.8mm	0.8mm	3.2mm	2.0mm	2.4mm	1.5mm	2.4mm	1.5mm	
OP			21.8±1.2mm	33.3±1.2mm		25±1mm	25±1mm	40±1mm	40±1mm	50±1.2mm	50±1.2mm	
FP						35mm	32mm		46mm		56mm	

DIMENSIONS

VM-7121



VM-7141

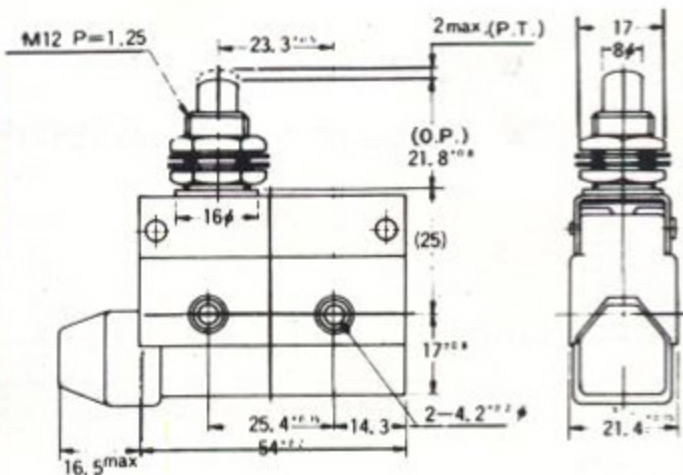


10A 250VAC

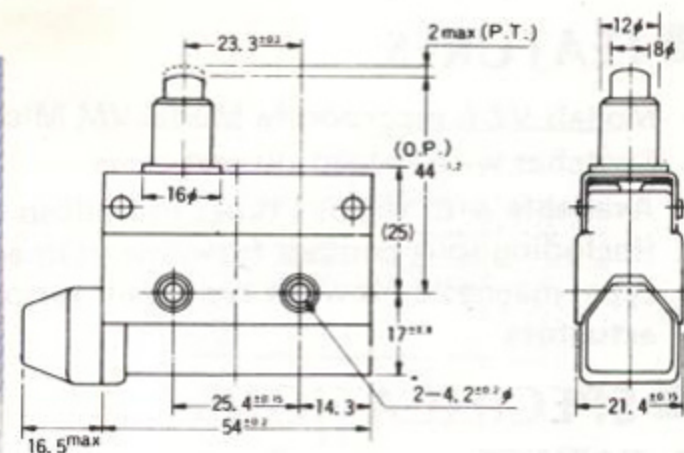
CHARACTERISTICS

Operating speed	0.01mm to 50cm/sec (at pin plunger)
Operating frequency	120 operations/min.
Contact resistance	25mΩ max. (initial)
Insulation resistance	100MΩ min. (at 500 VDC)
Dielectric strength	1,000 VAC, 50/60Hz for 1 minute between non-continuous terminals 2,000 VAC, 50/60Hz for 1 minute between current-carrying and non-current-carrying parts and between each terminal and ground
Vibration	Malfunction durability: 10 to 55Hz, 1.5mm double amplitude
Shock	Mechanical durability: 1,000m/s ² (approx. 100G's) Malfunction durability: 300m/s ² (approx. 30G's)
Ambient temperature	Operating: -10 to +60°C
Humidity	95% RH max. (at +20 to +35°C)
Service life	Mechanically: 10,000,000 operations min. (at rated OT value) Electrically: 500,000 operations min.
Weight	Approx. 60g
Degree of protection	IEC : IP65

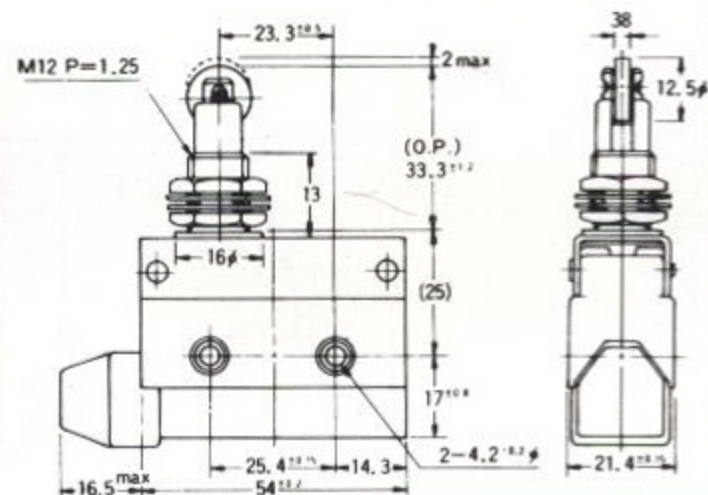
VZ-7310



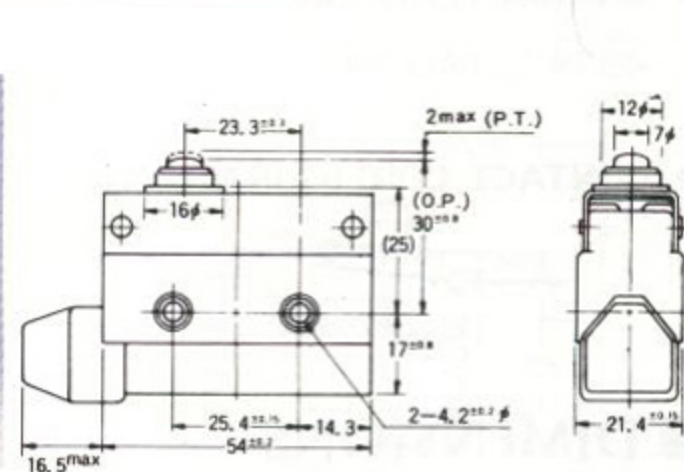
VZ-7110



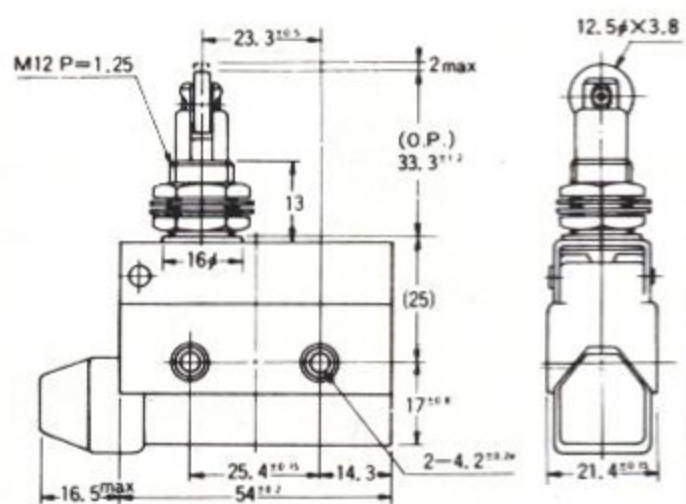
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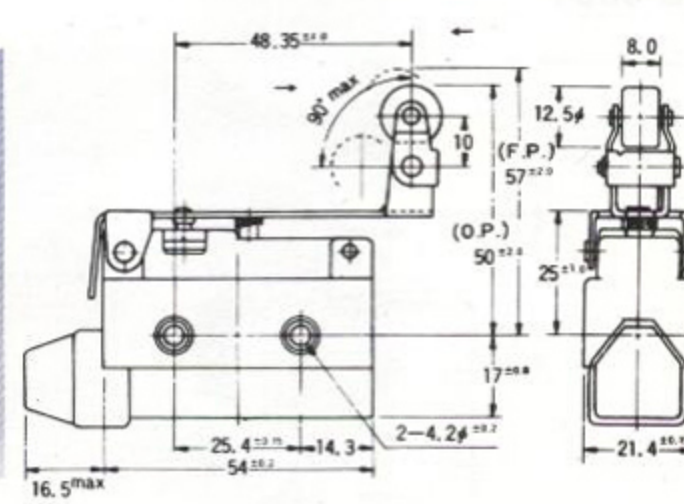
VZ-7100



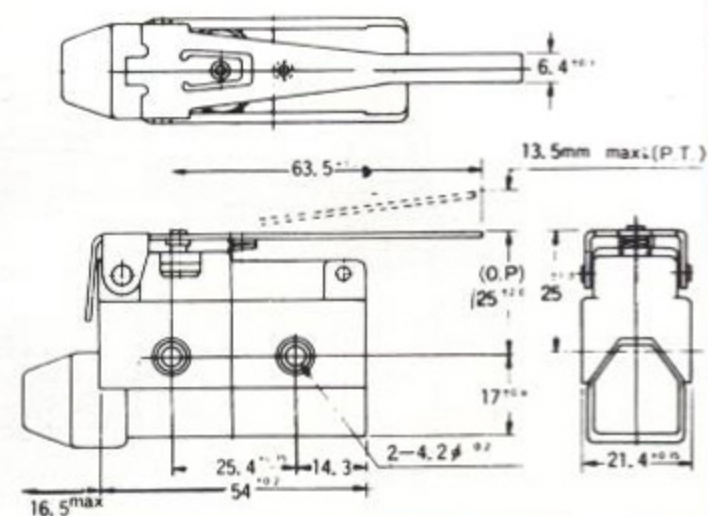
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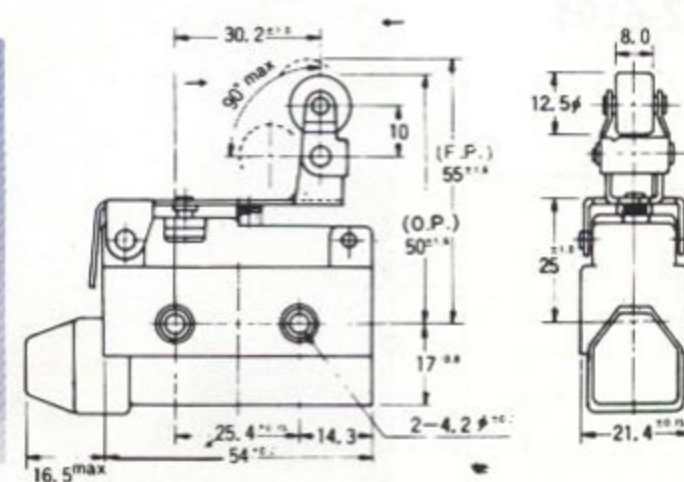
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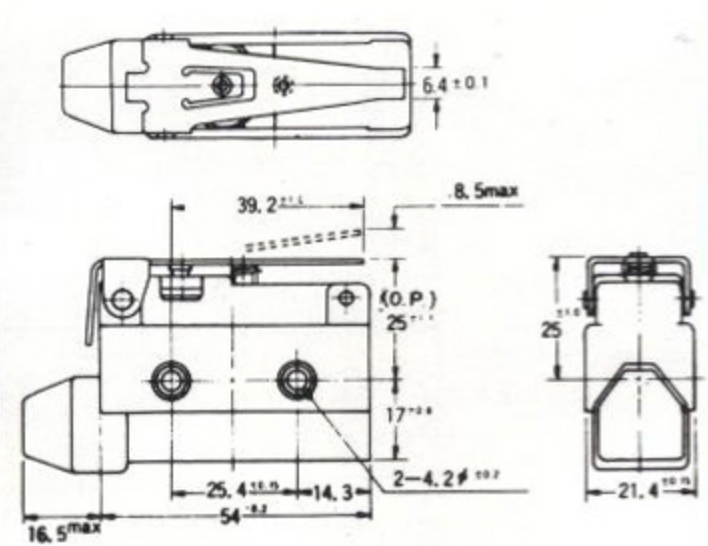
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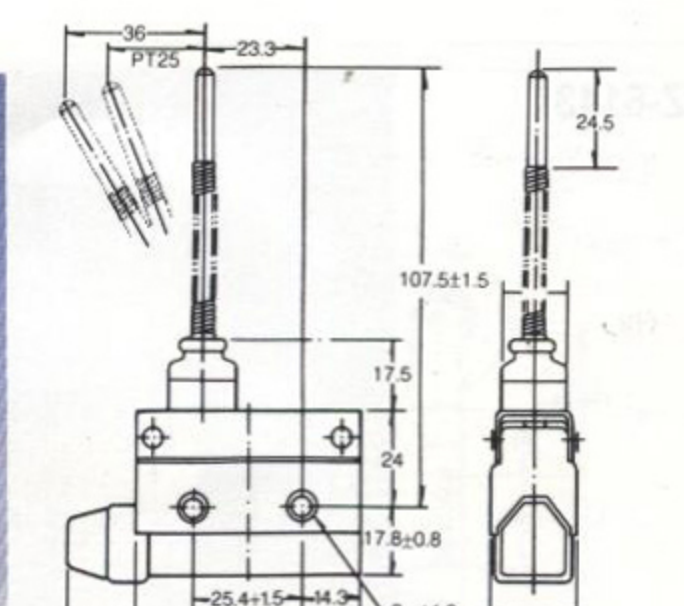
VZ-7144



VZ-7140



VZ-7166



Economical, Miniature Limit Switch Boasting Rigid Construction

VZ-92SERIES are DIN EN50047.

FEATURES

- Built-in basic switch with double spring mechanism
- Long life (10,000,000 mechanical operations)
- Material: Glass reinforced plastic.
- Dustproof and drip-proof construction
- Smooth operation with greater OT
- Easy-to-wire conduit opening design

SPECIFICATIONS

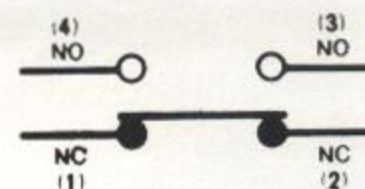
RATINGS

Rated voltage	Non-inductive load				Inductive load			
	Resistive load		Lamp load		Inductive load		Motor load	
	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.	N.C.	N.O.
125 VAC	5	5	1.5	0.7	3	3	2	1
250 VAC	5	5	1	0.5	3	3	1.5	0.8
8 VDC	5	5	3	3	5	4	3	3
14 VDC	5	5	3	3	4	4	3	3
30 VDC	5	5	3	3	4	4	3	3
125 VDC	0.4	0.4						
250 VDC	0.2	0.2						

- NOTES: 1. Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7msec. max. (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.

■ 5A 250 VAC

CONTACT CONFIGURATION



Operating speed	5mm to 50cm/s
Operating frequency	120 operations/min
Contact resistance	25mΩ (initial)
Insulation resistance	100MΩ min. (at 500 VDC)
Dielectric strength	1,000 VAC, 50/60Hz for 1 minute between non-continuous terminals 1,500 VAC, 50/60Hz for 1 minute between current-carrying and non-current-carrying parts and between each terminal and ground
Vibration	10 to 55Hz, 1.5mm double amplitude
Shock	Approx. 300m/s ² (approx. 30G's)
Ambient temperature	Operating: -5 to +65°C
Humidity	95% RH max.
Service life	Mechanically: 10,000,000 operations min. Electrically: 500,000 operations min.
Weight	Approx. 130 to 190g
Degree of protection	IEC 529 class IP65

OPERATING CHARACTERISTICS

TYPE	VZ-9104	VZ-9108	VZ-9107	VZ-9111	VZ-9112 VZ-9122	VZ-9124	VZ-9166 VZ-9167 VZ-9169
	VZ-9204	VZ-9208	VZ-9207	VZ-9211	VZ-9212 VZ-9222	VZ-9224	VZ-9266 VZ-9267 VZ-9269
OF max.	500 g	450g	450g	700 g	700 g	450 g	150 g
RF min.	50 g	40g	40g	150 g	150 g	80 g	—
PT max.	18° ~ 28°	18° ~ 28°	18° ~ 28°	2mm	2mm	4mm	30mm
OT min.	30°	30°	30°	4mm	4mm	5mm	—
MD max.	14°	14°	14°	0.8mm	0.8mm	1.6mm	—
OP	—	—	—	18 ± 0.5mm	28.2 ± 0.8mm	37 ± 0.8mm	—

VG-20 CABLE GLAND ACCESSORY OF VZ-92 SERIES

Diameter of Cables: φ7~13mm

