

MINIATURE BASIC SWITCHES V SERIES

Definitions of Operating Characteristics

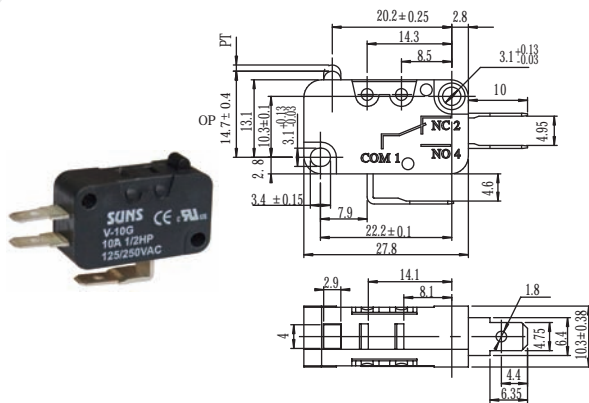
OF	Operating Force
RF	Releasing Force
OT	Overtravel
TT	Total Travel
PT	Pretravel
MD	Movement Differential
OP	Operating Position
PO	Travel to Positive Opening

Specifications

Operating Speed	0.01mm T0 1m/sec(Plunger models without levers)
Operating Frequency	Mechanical: 600 ops/min; Electrical: 60 ops/min
Service Life	Mechanical: 10*000*000 (operations) Electrical: V-10C*200,000 (operations) V-15G*100,000 (operations)
Rated Current/Voltage	V-10 series 10A 1/2HP 125/250VAC V-15 series 15A 1/2HP 125/250VAC
Operating Temperature	Standard *-40*+85* High temperature*-40*+150*
Dielectric Strength	1,000 VAC, 50/60 Hz for 1 min between terminals of the same polarity 2,000 VAC, 50/60 Hz for 1 min between current-carrying metal parts and ground, and between each terminal and non-current-carrying metal parts
Insulation Resistance	>100M ^Ω @ 500VDC
Contact Resistance	<30m ^Ω (initial value)
Degree of Protection	IP00

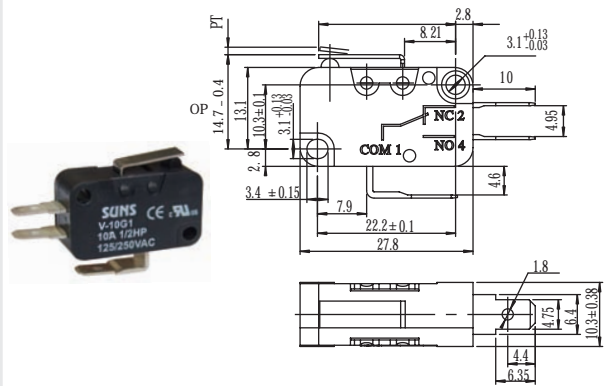
Selection Guide:

V-	15	-	G	-	none	-	none	-	none	-	none	
	10	10 A	G	Standard	none	Actuator	none	Max. Operating Force	none	Hinge Position	none	Mounting Hole
	15	15 A	H	High temp.	1	Pin plunger	A	50g	T	Internal/near plunger	U	3.1mm
					2	Short hinge lever	B	100g	M	External/far from plunger		2.9mm
					3	Hinge lever	C	125g	K	External/near plunger		
					4	Long hinge lever	D	200g				
					5	Simulated roller lever	E	300g				
					6	Short hinge roller lever	F	400g				
						Hinge roller lever						



V-10G/V-15G Operating Characteristics

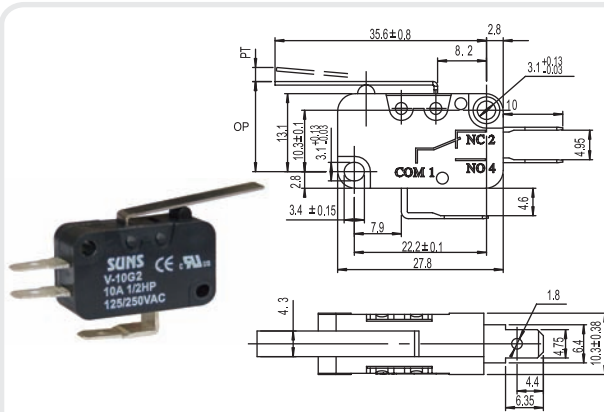
Suffix	- A B C D E F
OF (Max)	75/ 50/ 100/ 125/ 200/ 300/ 400g
RF (Min)	24/ 16/ 33/ 42/ 66/ 100/ 133g
PT (Max)	1.19 mm
OT (Min)	1.27 mm
MD (Max)	0.25 mm
OP	14.7 ± 0.4 mm



V-10G1/V-15G1 Operating Characteristics

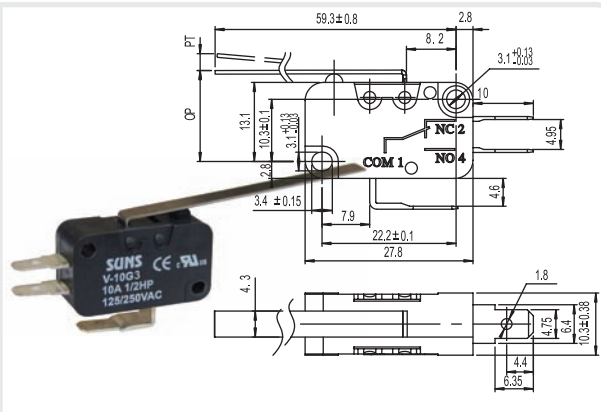
Suffix	- A B C D E F
OF (Max)	25/ 50/ 100/ 125/ 200/ 300/ 400g
RF (Min)	8.4/ 16/ 33/ 42/ 66/ 100/ 133g
PT (Max)	1.57 mm
OT (Min)	1.27 mm
MD (Max)	1.41 mm
OP	15.2 ± 0.5 mm

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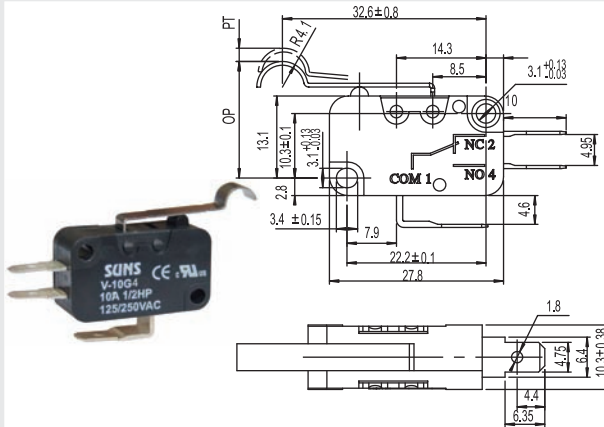
V-10G2/V-15G2 Operating Characteristics

Suffix	-	A	B	C	D	E	F	OT (Min)	2.2 mm
OF (Max)	37/ 25/ 50 / 65 / 100 / 150 / 200g								
RF (Min)	12/ 8 / 16 / 22 / 33 / 50 / 67g							MD (Max)	0.8 mm
PT (Max)	3.2 mm							OP	15.2 ± 1.2 mm



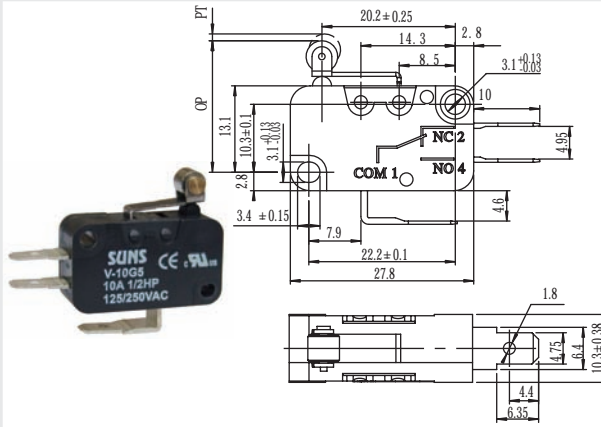
V-10G3/V-15G3 Operating Characteristics

Suffix	-	A	B	C	D	E	F	OT (Min)	3 mm
OF (Max)	22/ 14 / 28 / 36 / 57 / 86 / 115g								
RF (Min)	6.8/ 4.5/ 9.5/ 12 / 19 / 28 / 38g							MD (Max)	2 mm
PT (Max)	9 mm							OP	15.2 ± 2.6 mm



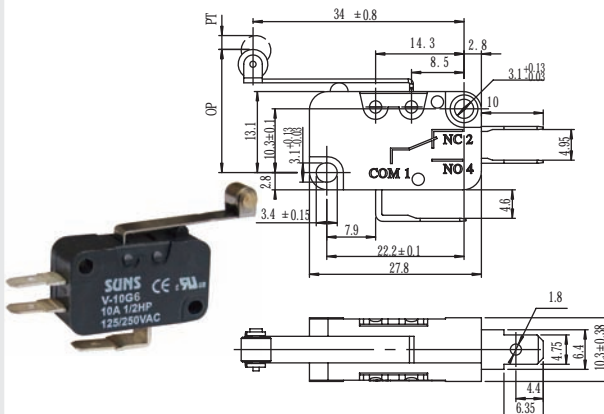
V-10G4/V-15G4 Operating Characteristics

Suffix	-	A	B	C	D	E	F	OT (Min)	2.3 mm
OF (Max)	37/ 25/ 50 / 65 / 100 / 150 / 200g								
RF (Min)	12/ 8 / 16 / 22 / 33 / 50 / 67g							MD (Max)	0.8 mm
PT (Max)	3.2 mm							OP	18.7 ± 1.2 mm



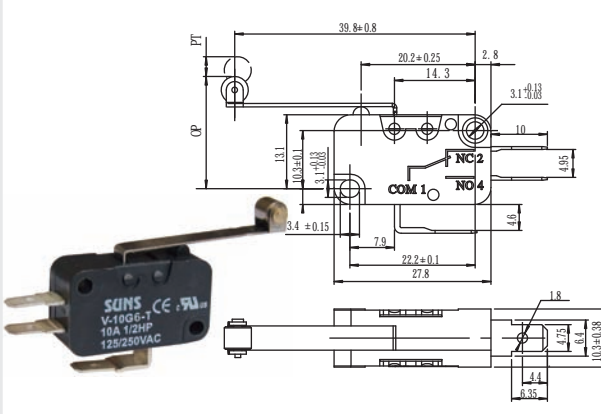
V-10G5/V-15G5 Operating Characteristics

Suffix	-	A	B	C	D	E	F	OT (Min)	1.0 mm
OF (Max)	75/ 50 / 100 / 125 / 200 / 300 / 400g								
RF (Min)	24/ 16 / 33 / 42 / 66 / 100 / 133g							MD (Max)	0.5 mm
PT (Max)	1.5 mm							OP	20.7 ± 0.6 mm



V-10G6/V-15G6 Operating Characteristics

Suffix	-	A	B	C	D	E	F	OT (Min)	2.2 mm
OF (Max)	37/ 25/ 50 / 65 / 100 / 150 / 200g								
RF (Min)	12/ 8 / 16 / 22 / 33 / 50 / 67g							MD (Max)	0.8 mm
PT (Max)	3.2 mm							OP	20.7 ± 1.6 mm



V-10G6_TV/V-15G6_T Operating Characteristics

Suffix	-	A	B	C	D	E	F	OT (Min)	3.05 mm
OF (Max)	30/ 20 / 38 / 50 / 77 / 115 / 154g								
RF (Min)	9 / 6 / 12 / 16 / 25 / 38 / 50g							MD (Max)	1.02 mm
PT (Max)	5.08 mm							OP	20.7 ± 2.0 mm