

MINIATURE BASIC SWITCHES V SERIES

Definitions of Operating Characteristics

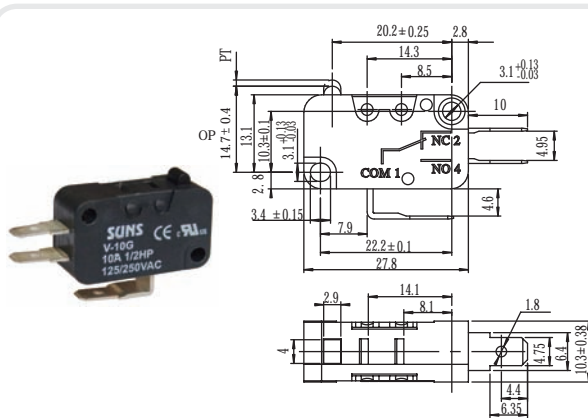
OF	Operating Force
RF	Releasing Force
OT	Overtravel
TT	Total Travel
PT	Pretravel
MD	Movement Differential
OP	Operating Position
PO	Travel to Positive Opening

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

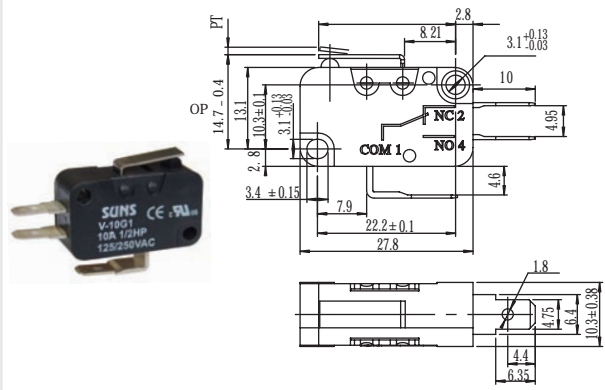
Selection Guide:

V-	15	-	G	-	none	-	none	-	none	-	none	
	10	10 A	G	Standard	1	Pin plunger	none	70g	none	Internal/far from plunger	none	3.1mm
	15	15 A	H	High temp.	2	Short hinge lever	A	50g	T	Internal/near plunger	U	2.9mm
					3	Hinge lever	B	100g	M	External/far from plunger		
					4	Long hinge lever	C	125g	K	External/near plunger		
					5	Simulated roller lever	D	200g				
					6	Short hinge roller lever	E	300g				
						Hinge roller lever	F	400g				



V-10G/V-15G Operating Characteristics

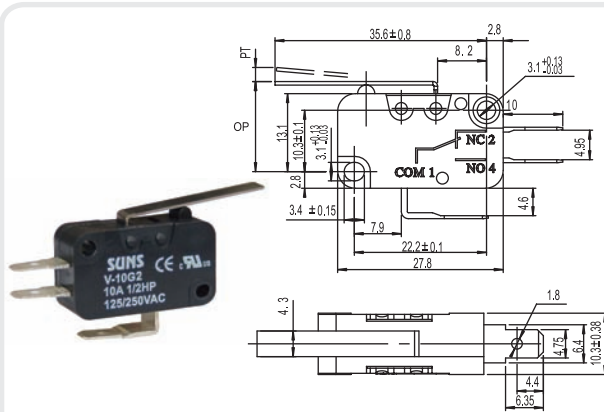
Suffix	- A B C D E F	OT (Min)	1.27 mm
OF (Max)	75/ 50/ 100/ 125/ 200/ 300/ 400g	MD (Max)	0.25 mm
RF (Min)	24/ 16/ 33/ 42/ 66/ 100/ 133g	OP	14.7 ± 0.4 mm
PT (Max)	1.19 mm		



V-10G1/V-15G1 Operating Characteristics

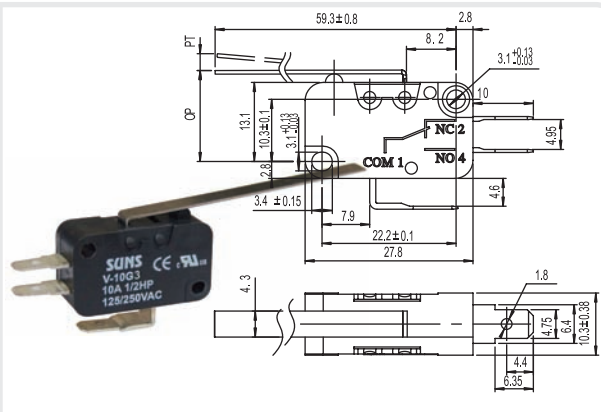
Suffix	- A B C D E F	OT (Min)	1.27 mm
OF (Max)	25/ 50/ 100/ 125/ 200/ 300/ 400g	MD (Max)	1.41 mm
RF (Min)	8.4/ 16/ 33/ 42/ 66/ 100/ 133g	OP	15.2 ± 0.5 mm
PT (Max)	1.57 mm		

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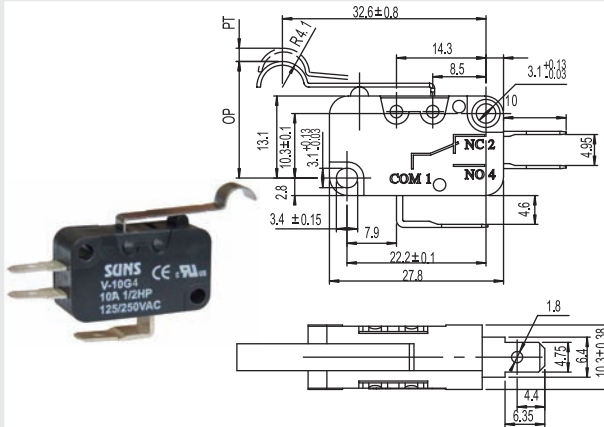
V-10G2/V-15G2 Operating Characteristics

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



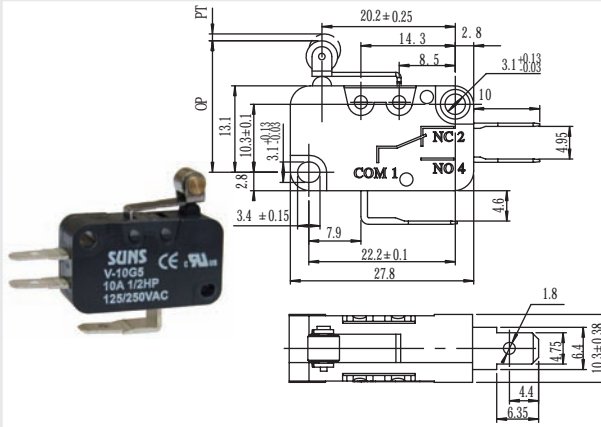
V-10G3/V-15G3 Operating Characteristics

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



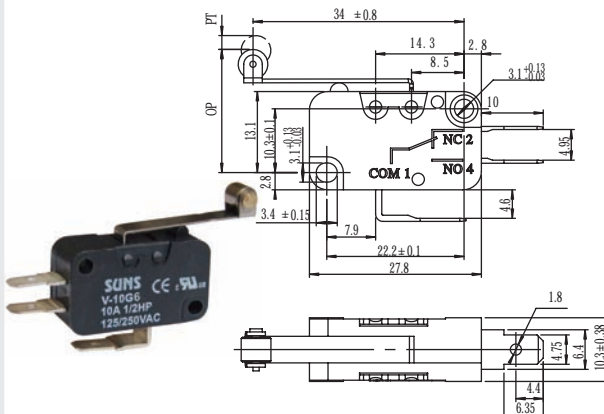
V-10G4/V-15G4 Operating Characteristics

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



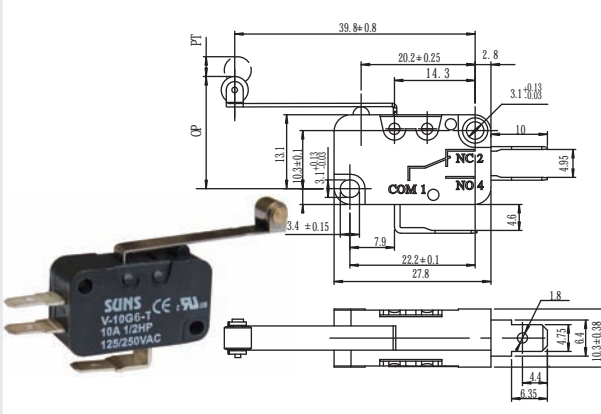
V-10G5/V-15G5 Operating Characteristics

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



V-10G6/V-15G6 Operating Characteristics

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



V-10G6_TV/V-15G6_T Operating Characteristics

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