


Internal snap-fit lever

External snap-fit lever

SM1-N & SM1-G SERIES

SPECIFICATIONS

Contact Resistance(initial)

Max. 300 mΩ

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

Insulation Resistance (at 500VDC/minute)

Min. 100MΩ

Dielectric Strength

Min. 500VAC(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

Min. 10,000 operations

Electrical Operating Frequency

10~30 operations per minute

Mechanical Service Life

All series for H force: No define the life cycles

All series for F force: Min. 1,000,000 operations

Others: Min. 5,000,000 operations

Mechanical Operating Frequency

120 operations per minute

Operating application of the switch

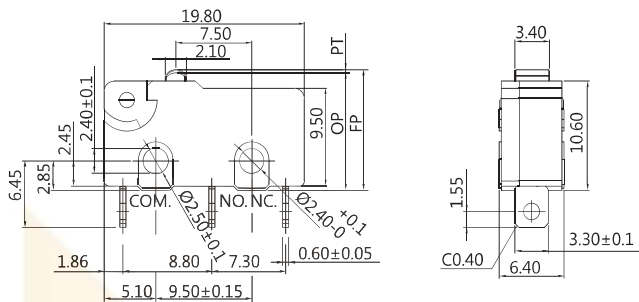
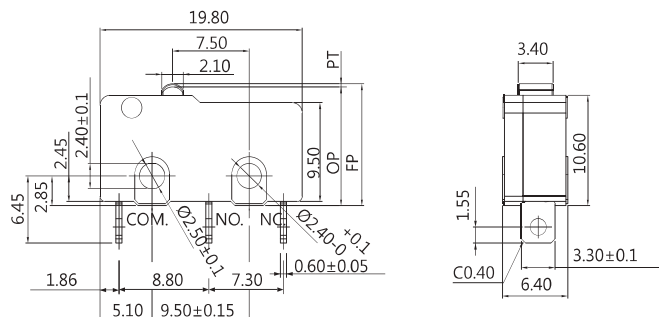
Set the switch pushing distance from 60% to 90% of the specified OT value

TYPICAL APPLICATIONS

Joysticks, Coffee Machines and Small Household Appliances, HEVAC, Computers and Peripherals, Industrial

DIMENSIONS

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

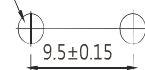


CONTACT CONFIGURATION

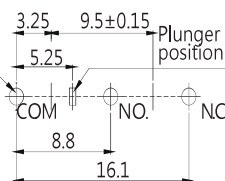


MOUNTING HOLES

2-2.4 dia. mounting holes or M2.3 screw holes.



3-1.35 to 1.5 dia.



CERTIFICATE INFORMATION

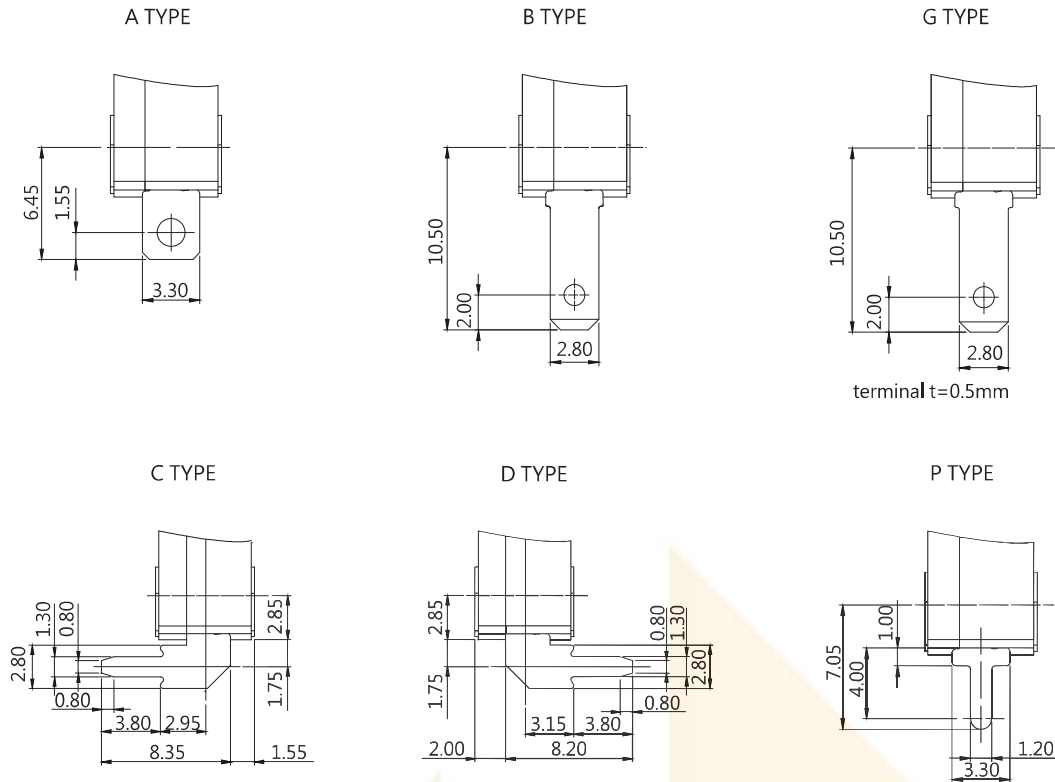
Model Name	UL, cUL	ENEC
SM1-G1 SM1-NC1 SM1-GC1	0.1RA 125/250VAC μ T125 1E4 0.1RA 30VDC μ T125 1E4	0.1A 125/250VAC μ T125 1E4 0.1A 30VDC μ T125 1E4
SM1-N3 SM1-G3 SM1-NC3 SM1-GC3	3RA 125/250VAC μ T125 1E4 3RA 30VDC μ T125 1E4	3A 125/250VAC μ T125 1E4 3A 30VDC μ T125 1E4
SM1-N6 SM1-G6	6RA 125/250VAC μ T125 1E4 6GPA 125/250VAC μ T85 1E4 5RA 30VDC μ T125 1E4	6A 125/250VAC μ T125 1E4 5A 30VDC μ T125 1E4 6(3)A 125/250VAC μ T85 1E4 (S,F, H force only)

THE SELECTION OF RATING & FORCE

Model Name	Rating	D	L	S	F	H
SM1-G1 SM1-NC1 or SM1-GC1	0.1A	*	*	*	*	*
SM1-N3 or SM1-G3	3A	*	*	*	*	*
SM1-NC3 or SM1-GC3	3A		*	*	*	*
SM1-N6 or SM1-G6	6A	*	*	*	*	*
SM1-N6S, N6F, N6H	6(3)A			*	*	*

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

TERMINAL TYPES (The thickness of terminal is 0.6 mm, beside G type terminal)



ORDERING INFORMATION

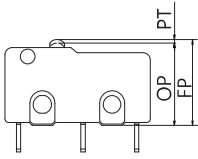
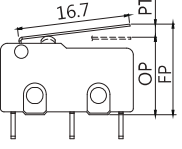
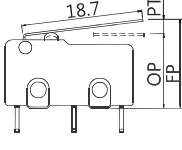
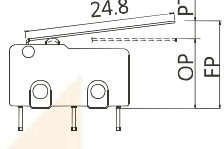
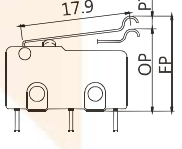
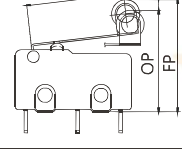
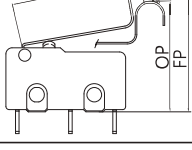
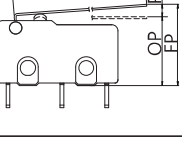
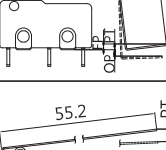

INTERNAL SNAP-FIT LEVER OR EXTERNAL SNAP-FIT LEVER

S M 1 — N 6 — S — 0 0 — 5 0 0 0 — A — 0 — Z

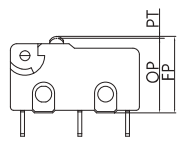
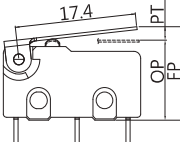
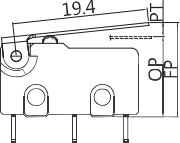
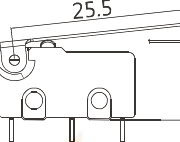
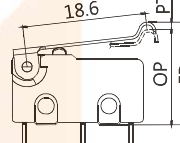
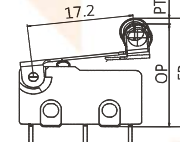
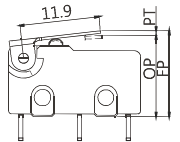
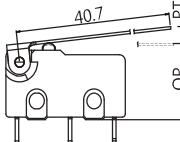
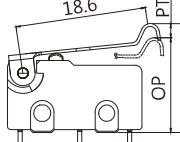
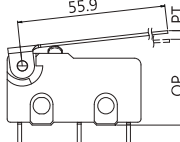
SERIES PREFIX	C O D E	RATING CURRENT	C O D E	OPERATING FORCE	C O D E	ACTUATOR TYPE	C O D E	ACTUATOR TYPE	C O D E	TERMINAL TYPE	C O D E	CONTACT ARRANGEMENT	ROHS CODE
	G1	0.1A 125/250VAC	S	STANDARD	00		00		A		0	S.P.D.T	Z
	NC1	0.1A 30VDC	L	LIGHT	01		01		B		1	S.P.S.T.NO	
	N3	3A 125/250VAC	D	SLIGHT	02		02		C		2	S.P.S.T.NC	
	G3	3A 125/250VAC	F	HEAVY	03		03		D				
	NC3	3A 30VDC	H	HEAVIER	04		04		P				
	GC3	3A 30VDC			05		05		G				
	N6	6A 125/250VAC			06		06						
	G6	5A 30VDC			07		07						
					08		08						
					09		09						

NOTE		
ITEM	RATING CURRENT	OPERATING FORCE
1	CODE:G1	ALL
2	CODE:N3/G3	ALL
3	CODE:N6/G6	ALL
4	CODE:NC1/GC1	ALL
5	CODE:NC3/GC3	L,S,F,H

OPERATING CHARACTERISTICS (SM1 series - internal snap-fit lever)

SWITCH TYPE	PART SUFFIX	OF Max. (gf)		OP (mm)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	RF Min. (gf)
		H	F						
SM1-□□□□-00□□-Z		H	355	11.4±0.3	1.1	0.4	0.2	12.2	100
		F	280						50
		S	150						25
		L	95						10
SM1-□□□□-01□□-Z		H	118	11.4±1.1	4.63	0.53	1.45	14.6	20
		F	90	11.8±0.8	3.6	0.6	0.8		9
		S	50						6
		L	28						1
SM1-□□□□-02□□-Z		H	107					11.4±1.3	5.29
		F	82	11.8±0.9	4.03	0.67	0.9	8	
		S	45					5	
		L	25					1	
SM1-□□□□-03□□-Z		H	87					11.0±1.8	7.47
		F	70	11.8±1.5	5.35	0.89	1.19	5	
		S	34					2	
		L	20					1	
SM1-□□□□-04□□-Z		H	111					13.3±1.2	5.02
		F	85	13.7±0.9	3.86	0.64	0.86	8	
		S	47					5	
		L	26					1	
SM1-□□□□-05□□-Z		H	117					17.1±1.1	4.60
		F	90	17.5±0.8	3.8	0.6	0.8	9	
		S	50					6	
		L	28					1	
SM1-□□□□-06□□-Z		H	97					18.0±1.5	6.12
		F	75	19.0±1.5	5.7	1.0	1.0	7	
		S	42					2	
		L	23					1	
SM1-□□□□-07□□-Z		H	55					9.9±2.7	11.20
		F	53	11.8±2.0	8.6	1.5	1.8	3	
		S	25					1	
		L	16					1	
SM1-□□□□-08□□-Z		F	58					-2.3±3.0	6.0
		S	25	1					
		L	17	1					
SM1-□□□□-09□□-Z		F	38	11.8±3.0	13.3	1.0	2.9	22.1	2
		S	15						2
		L	12						1

OPERATING CHARACTERISTICS (SM1 series - external snap-fit lever)

SWITCH TYPE	PART SUFFIX	OF Max. (gf)		OP (mm)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	FP Max. (mm)	RF Min. (gf)
		H	F						
SM1- □□□ -500 □□ -Z		H	355	11.4±0.3	1.1	0.4	0.2	12.2	100
		F	280						50
		S	150						25
		L	95						10
SM1- □□□ -501 □□ -Z		H	145	11.8±1.10	4.6	0.9	0.8	15.3	15
		F	105						12
		S	50						6
		L	40						1
SM1- □□□ -502 □□ -Z		H	135	11.8±1.20	5.1	0.7	0.8	15.70	10
		F	100						8
		S	50						5
		L	40						--
SM1- □□□ -503 □□ -Z		H	110	11.8±1.60	6.90	0.9	1.10	17.10	10
		F	80						7
		S	45						4
		L	35						--
SM1- □□□ -504 □□ -Z		H	140	13.7±1.1	4.80	1.50	0.8	17.40	15
		F	100						11
		S	50						6
		L	40						1
SM1- □□□ -505 □□ -Z		H	145	17.9±1.0	4.05	0.55	0.9	21.00	15
		F	110						12
		S	55						6
		L	40						1
SM1- □□□ -506 □□ -Z		H	195	11.8±0.8	3.2	0.6	0.6	14.2	25
		F	145						19
		S	70						10
		L	50						2
SM1- □□□ -507 □□ -Z		H	85	11.8±2.6	10.8	1.2	1.9	20.0	5
		F	60						3
		S	35						1
		L	30						---
SM1- □□□ -508 □□ -Z		H	140	14.9±1.1	4.10	1.0	0.8	17.95	40
		F	100						11
		S	50						3
		L	40						1
SM1- □□□ -509 □□ -Z		H	65	11.8±3.5	14.8	2.8	2.6	23.1	1
		F	50						1
		S	30						1
		L	25						---