

NEW SUBMINIATURE SWITCHES WITH HIGH PRECISION

AV (FS•FS-T) SWITCHES



FS



FS-T

RoHS compliant

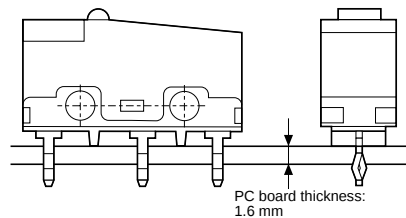
FEATURES

- Consistent quality and high precision through sophisticated automatic fabrication system —O.P.: 8.4 ± 0.3 mm (O.P. of conventional subminiature switches: 8.4 ± 0.5)
- Flux-resistant construction with integrally molded terminals
- Solder terminal; Self-standing, internationally common pitch, right angle, left angle terminals for PC board; Quick connect .110 terminals for easy mounting
- Insulation guard available for safety mounting

- 2 lever pivot positions available for applications where low operating force is required

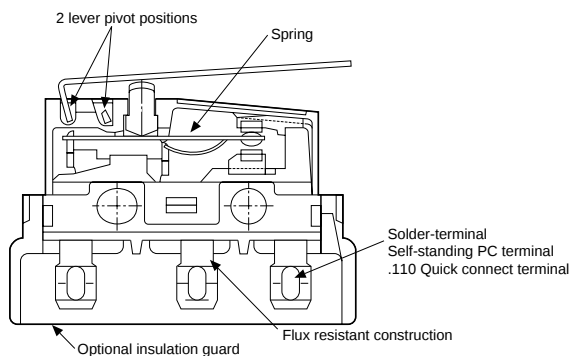
TYPICAL APPLICATIONS

- Communication equipment
- Vending machines
- Security systems
- Data systems
- Medical equipment
- VCR

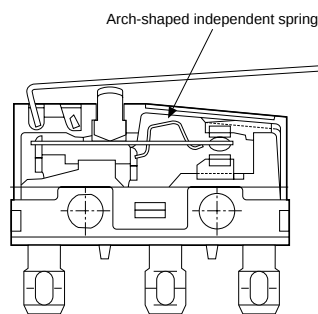


CONSTRUCTION (Example: AV3/AVM3 type)

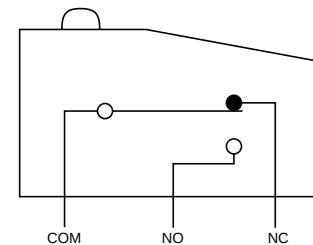
Standard version



Long life version



CONTACT ARRANGEMENT



Remark: As for FS-T switches, the terminals are the different shape.

ORDERING INFORMATION

1.FS switches

Ex. AV 3 2 0 2 3

Type of switch	Version	Terminals	Actuators	Operating force by pin plunger, max.	Lever position	Contacts	International standard
AV3(FS) switch	3: Standard	1: Solder terminal with guard 2: Solder terminal without guard 3: Solder terminal with opposite side guard 4: Self-standing PC terminal 5: Internationally common pitch PC terminal 6: Right angle terminal 7: Left angle terminal 8: .110 Quick-connect terminal	0: Pin plunger 1: Short hinge lever 2: Hinge lever 3: Long hinge lever 4: Simulated roller lever 5: Roller lever	0: 0.25 N (Gold-clad contact only) 2: 0.49 N 4: 0.98 N	Nil: Standard [11: forward]	Nil: AgNi alloy 61: Gold-clad triple layer*	3: UL/CSA/VDE/SEMKO

Ex. AV M3 2 0 2 3

Type of switch	Version	Terminals	Actuators	Operating force by pin plunger, max.	Lever position	Contacts	International standard
AV3 (FS long life ver.) switch	M3: Long life	1: Solder terminal with guard 2: Solder terminal without guard 3: Solder terminal with opposite side guard 4: Self-standing PC terminal 5: Internationally common pitch PC terminal 6: Right angle terminal 7: Left angle terminal 8: .110 Quick-connect terminal	0: Pin plunger 1: Short hinge lever 2: Hinge lever 3: Long hinge lever 4: Simulated roller lever 5: Roller lever	5: 1.47 N	Nil: Standard [11: forward]	Nil: AgNi alloy 61: Gold-clad triple layer*	3: UL/CSA/VDE/SEMKO

2.FS-T switches

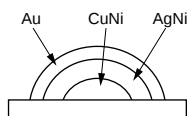
Ex. AV T3 2 0 2 3

Type of switch	Version	Terminals	Actuators	Operating force by pin plunger, max.	Lever position	Contacts	Agency standard
AVT3 (FS-T) switch	T3: Standard	2: Solder terminal 4: PC terminal 8: .110 Quick-connect terminal	0: Pin plunger 1: Short hinge lever 2: Hinge lever 3: Long hinge lever 4: Simulated roller lever 5: Roller lever	0: 0.25 N (Gold-clad contact only) 2: 0.49 N 4: 0.98 N	Nil: Standard [11: forward]	Nil: AgNi alloy (Not applicable to 0.25 N type) 61: Gold-clad triple layer*	3: UL/CSA/VDE/SEMKO

Ex. AV L3 2 0 2 3

Type of switch	Version	Terminals	Actuators	Operating force by pin plunger, max.	Lever position	Contacts	Agency standard
AVL3 (FS-T long life ver.) switch	L3: Long life	2: Solder terminal 4: PC terminal 8: .110 Quick-connect terminal	0: Pin plunger 1: Short hinge lever 2: Hinge lever 3: Long hinge lever 4: Simulated roller lever 5: Roller lever	5: 1.47 N	Nil: Standard [11: forward]	Nil: AgNi alloy (Not applicable to 0.25 N type) 61: Gold-clad triple layer*	3: UL/CSA/VDE/SEMKO

* Gold-clad triple layer contact



APPLICABLE CURRENT RANGE

Type	Contact	Rating				O.F.			
		1mA	100mA	3A	5A	0.25 N	0.49 N	0.98 N	1.47 N
Standard version	Silver alloy contact						●	●	
	Gold-clad triple layer contact type					●	●	●	
Long life version	Silver alloy contact								●
	Gold-clad triple layer contact type								●

Remark: For high capacity contact rating up to 10.1 A, please refer to PS (AVM3□□□P) switches catalog.

PRODUCT TYPES

1. FS switches (In-line terminal type)

Standard type

	Actuator	Operating force, Max.	Part No.				
			Self-standing solder terminal			Self-standing PC terminal	Internationally common pitch PC terminal
			Without guard	With guard	With opposite side guard		
AgNi alloy contact type	Pin plunger	0.49N	AV32023	AV31023	AV33023	AV34023	AV35023
		0.98N	AV32043	AV31043	AV33043	AV34043	AV35043
	Short hinge lever	0.20N	AV32123	AV31123	AV33123	AV34123	AV35123
		0.39N	AV32143	AV31143	AV33143	AV34143	AV35143
	Hinge lever	0.16N	AV32223	AV31223	AV33223	AV34223	AV35223
		0.34N	AV32243	AV31243	AV33243	AV34243	AV35243
	Long hinge lever	0.12N	AV32323	AV31323	AV33323	AV34323	AV35323
		0.25N	AV32343	AV31343	AV33343	AV34343	AV35343
	Simulated roller lever	0.16N	AV32423	AV31423	AV33423	AV34423	AV35423
		0.34N	AV32443	AV31443	AV33443	AV34443	AV35443
Gold-clad triple layer contact type	Pin plunger	0.20N	AV32523	AV31523	AV33523	AV34523	AV35523
		0.39N	AV32543	AV31543	AV33543	AV34543	AV35543
		0.25N	AV3200613	AV3100613	AV3300613	AV3400613	AV3500613
		0.49N	AV3202613	AV3102613	AV3302613	AV3402613	AV3502613
		0.98N	AV3204613	AV3104613	AV3304613	AV3404613	AV3504613
	Short hinge lever	0.098N	AV3210613	AV3110613	AV3310613	AV3410613	AV3510613
		0.20N	AV3212613	AV3112613	AV3312613	AV3412613	AV3512613
		0.39N	AV3214613	AV3114613	AV3314613	AV3414613	AV3514613
	Hinge lever	0.078N	AV3220613	AV3120613	AV3320613	AV3420613	AV3520613
		0.16N	AV3222613	AV3122613	AV3322613	AV3422613	AV3522613
		0.34N	AV3224613	AV3124613	AV3324613	AV3424613	AV3524613
	Long hinge lever	0.12N	AV3232613	AV3132613	AV3332613	AV3432613	AV3532613
		0.25N	AV3234613	AV3134613	AV3334613	AV3434613	AV3534613
	Simulated roller lever	0.16N	AV3242613	AV3142613	AV3342613	AV3442613	AV3542613
		0.34N	AV3244613	AV3144613	AV3344613	AV3444613	AV3544613
	Roller lever	0.20N	AV3252613	AV3152613	AV3352613	AV3452613	AV3552613
		0.39N	AV3254613	AV3154613	AV3354613	AV3454613	AV3554613

	Actuator	Operating force, Max.	Part No.		
			Right angle terminal	Left angle terminal	.110 Quick-connect
AgNi alloy contact type	Pin plunger	0.49N	AV36023	AV37023	AV38023
		0.98N	AV36043	AV37043	AV38043
	Short hinge lever	0.20N	AV36123	AV37123	AV38123
		0.39N	AV36143	AV37143	AV38143
	Hinge lever	0.16N	AV36223	AV37223	AV38223
		0.34N	AV36243	AV37243	AV38243
	Long hinge lever	0.12N	AV36323	AV37323	AV38323
		0.25N	AV36343	AV37343	AV38343
	Simulated roller lever	0.16N	AV36423	AV37423	AV38423
		0.34N	AV36443	AV37443	AV38443
	Roller lever	0.20N	AV36523	AV37523	AV38523
		0.39N	AV36543	AV37543	AV38543
Gold-clad triple layer contact type	Pin plunger	0.25N	AV3600613	AV3700613	AV3800613
		0.49N	AV3602613	AV3702613	AV3802613
		0.98N	AV3604613	AV3704613	AV3804613
	Short hinge lever	0.098N	AV3610613	AV3710613	AV3810613
		0.20N	AV3612613	AV3712613	AV3812613
		0.39N	AV3614613	AV3714613	AV3814613
	Hinge lever	0.078N	AV3620613	AV3720613	AV3820613
		0.16N	AV3622613	AV3722613	AV3822613
		0.34N	AV3624613	AV3724613	AV3824613
	Long hinge lever	0.12N	AV3632613	AV3732613	AV3832613
		0.25N	AV3634613	AV3734613	AV3834613
	Simulated roller lever	0.16N	AV3642613	AV3742613	AV3842613
		0.34N	AV3644613	AV3744613	AV3844613
	Roller lever	0.20N	AV3652613	AV3752613	AV3852613
		0.39N	AV3654613	AV3754613	AV3854613

Remark: When ordering, please refer to "Remarks" of ordering information.

AV3,AVM3/AVT3,AVL3

2. FS-T switches (Cross-line terminal type)

Standard type

	Actuator	Operating force, Max.	Part No.		
			Solder terminal without guard	PC terminal	.110 Quick-connect terminal
AgNi alloy contact type	Pin plunger	0.49N	AVT32023	AVT34023	AVT38023
		0.98N	AVT32043	AVT34043	AVT38043
	Short hinge lever	0.20N	AVT32123	AVT34123	AVT38123
		0.39N	AVT32143	AVT34143	AVT38143
	Hinge lever	0.16N	AVT32223	AVT34223	AVT38223
		0.34N	AVT32243	AVT34243	AVT38243
	Long hinge lever	0.12N	AVT32323	AVT34323	AVT38323
		0.25N	AVT32343	AVT34343	AVT38343
	Simulated roller lever	0.16N	AVT32423	AVT34423	AVT38423
		0.34N	AVT32443	AVT34443	AVT38443
Gold-clad triple layer contact type	Pin plunger	0.25N	AVT3200613	AVT3400613	AVT3800613
		0.49N	AVT3202613	AVT3402613	AVT3802613
		0.98N	AVT3204613	AVT3404613	AVT3804613
	Short hinge lever	0.098N	AVT3210613	AVT3410613	AVT3810613
		0.20N	AVT3212613	AVT3412613	AVT3812613
		0.39N	AVT3214613	AVT3414613	AVT3814613
	Hinge lever	0.078N	AVT3220613	AVT3420613	AVT3820613
		0.16N	AVT3222613	AVT3422613	AVT3822613
		0.34N	AVT3224613	AVT3424613	AVT3824613
	Long hinge lever	0.12N	AVT3232613	AVT3432613	AVT3832613
		0.25N	AVT3234613	AVT3434613	AVT3834613
	Simulated roller lever	0.16N	AVT3242613	AVT3442613	AVT3842613
		0.34N	AVT3244613	AVT3444613	AVT3844613
	Roller lever	0.20N	AVT3252613	AVT3452613	AVT3852613
		0.39N	AVT3254613	AVT3454613	AVT3854613

3. FS switches (In-line terminal type)

Long life version

	Actuator	Operating force, Max.	Part No.				
			Self-standing solder terminal			Self-standing PC terminal	Internationally common pitch PC terminal
			Without guard	With guard	With opposite side guard		
AgNi alloy contact type	Pin plunger	1.47N	AVM32053	AVM31053	AVM33053	AVM34053	AVM35053
	Short hinge lever	0.59N	AVM32153	AVM31153	AVM33153	AVM34153	AVM35153
	Hinge lever	0.54N	AVM32253	AVM31253	AVM33253	AVM34253	AVM35253
	Long hinge lever	0.44N	AVM32353	AVM31353	AVM33353	AVM34353	AVM35353
	Simulated roller lever	0.54N	AVM32453	AVM31453	AVM33453	AVM34453	AVM35453
	Roller lever	0.59N	AVM32553	AVM31553	AVM33553	AVM34553	AVM35553
Gold-clad triple layer contact type	Pin plunger	1.47N	AVM3205613	AVM3105613	AVM3305613	AVM3405613	AVM3505613
	Short hinge lever	0.59N	AVM3215613	AVM3115613	AVM3315613	AVM3415613	AVM3515613
	Hinge lever	0.54N	AVM3225613	AVM3125613	AVM3325613	AVM3425613	AVM3525613
	Long hinge lever	0.44N	AVM3235613	AVM3135613	AVM3335613	AVM3435613	AVM3535613
	Simulated roller lever	0.54N	AVM3245613	AVM3145613	AVM3345613	AVM3445613	AVM3545613
	Roller lever	0.59N	AVM3255613	AVM3155613	AVM3355613	AVM3455613	AVM3555613

	Actuator	Operating force, Max.	Part No.		
			Right angle terminal	Left angle terminal	.110 Quick-connect
			Without guard	With guard	With opposite side guard
AgNi alloy contact type	Pin plunger	1.47N	AVM36053	AVM37053	AVM38053
	Short hinge lever	0.59N	AVM36153	AVM37153	AVM38153
	Hinge lever	0.54N	AVM36253	AVM37253	AVM38253
	Long hinge lever	0.44N	AVM36353	AVM37353	AVM38353
	Simulated roller lever	0.54N	AVM36453	AVM37453	AVM38453
	Roller lever	0.59N	AVM36553	AVM37553	AVM38553
Gold-clad triple layer contact type	Pin plunger	1.47N	AVM3605613	AVM3705613	AVM3805613
	Short hinge lever	0.59N	AVM3615613	AVM3715613	AVM3815613
	Hinge lever	0.54N	AVM3625613	AVM3725613	AVM3825613
	Long hinge lever	0.44N	AVM3635613	AVM3735613	AVM3835613
	Simulated roller lever	0.54N	AVM3645613	AVM3745613	AVM3845613
	Roller lever	0.59N	AVM3655613	AVM3755613	AVM3855613

Remark: When ordering, please refer to "Remarks" of ordering information.

4. FS-T switches (Cross-line terminal type)

Long life version

	Actuator	Operating force, Max.	Part No.		
			Solder terminal Without guard	PC terminal	.110 Quick-connect terminal
AgNi alloy contact type	Pin plunger	1.47N	AVL32053	AVL34053	AVL38053
	Short hinge lever	0.59N	AVL32153	AVL34153	AVL38153
	Hinge lever	0.54N	AVL32253	AVL34253	AVL38253
	Long hinge lever	0.44N	AVL32353	AVL34353	AVL38353
	Simulated roller lever	0.54N	AVL32453	AVL34453	AVL38453
	Roller lever	0.59N	AVL32553	AVL34553	AVL38553
Gold-clad triple layer contact type	Pin plunger	1.47N	AVL3205613	AVL3405613	AVL3805613
	Short hinge lever	0.59N	AVL3215613	AVL3415613	AVL3815613
	Hinge lever	0.54N	AVL3225613	AVL3425613	AVL3825613
	Long hinge lever	0.44N	AVL3235613	AVL3435613	AVL3835613
	Simulated roller lever	0.54N	AVL3245613	AVL3445613	AVL3845613
	Roller lever	0.59N	AVL3255613	AVL3455613	AVL3855613

Remark: When ordering, please refer to "Remarks" of ordering information.

SPECIFICATIONS

1.Contact rating

Voltage	Standard version			Long life version		
	AgNi alloy contact type		Gold-clad contact type	AgNi alloy contact type		Gold-clad contact type
			Triple layer			Triple layer
	Resistive load ($\cos\phi \approx 1$)	Inductive load ($\cos\phi \approx 0.6-0.7$)	Resistive load ($\cos\phi \approx 1$)	Resistive load ($\cos\phi \approx 1$)	Inductive load ($\cos\phi \approx 0.6-0.7$)	Resistive load ($\cos\phi \approx 1$)
125V AC	3A	2A	0.1A	5A	3A	0.1A
250V AC	3A	2A	0.1A	5A	3A	0.1A
30V DC	3A	2A	0.1A	5A	3A	0.1A
125V DC	0.4A	0.05A	—	0.4A	0.05A	—

Remark: Time constant shall be less than 7 msec. for DC inductive loads.

2.Characteristics

	Standard version		Long life version	
	AgNi alloy contact type	Gold-clad contact type	AgNi alloy contact type	Gold-clad contact type
Electrical life at rated load (O.T.max.)	5 × 10 ⁴ at 20 cpm	2 × 10 ⁵ at 20 cpm	5 × 10 ⁴ at 20 cpm	2 × 10 ⁵ at 20 cpm
Mechanical life	5 × 10 ⁵ at 60 cpm (O.T.max.)		3 × 10 ⁷ (O.T.: Specified value) 10 ⁷ (O.T.max.) at 60 cpm	
Insulation resistance	Min.100MΩ at 500V DC			
Dielectric strength				
Between non-continuous terminals	1,000 Vrms			
Between each terminal and other exposed metal parts	1,500 Vrms			
Between each terminal and ground	1,500 Vrms			
Vibration resistance (Pin plunger type)	10 to 55 Hz at single amplitude of 1.5mm (Contact opening: max.1 msec.)			
Shock resistance (Pin plunger type) (Contact opening: less than 1 msec.)	294 m/s ² min. (O.F. 0.98 N) 147 m/s ² min. (O.F. 0.49 N)	294 m/s ² min. (O.F. 0.98 N) 147 m/s ² min. (O.F. 0.49 N) 49 m/s ² min. (O.F. 0.25 N)	294 m/s ² min.	
Contact resistance (Initial)	50 mΩ max. (by voltage drop 1 A 6 to 8V DC)	100 mΩ max. (by voltage drop 0.1 A 6 to 8V DC)	Au: 50 mΩ max. (by voltage drop 0.1 A 6 to 8V DC) Ag: 50 mΩ max. (by voltage drop 1 A 6 to 8V DC)	
Allowable operating speed	0.1 to 1,000 mm/sec.			
Max.operating cycle rate	300 cpm			
Ambient tempeprature	-25°C to +85°C (no freezing below 0°C)			
Unit weight	Approx.2g			

3.Operating characteristics

1) Pin plunger

4th digit number of Part No.	O.F.max.	R.F.min.	P.T.max.	M.D.max.	O.T.max.	O.P.
0	0.25N	0.020N	0.6mm	0.1mm	0.4mm	Distance from mounting holes: 8.4±0.3mm Distance from stand-off: FS 11.8±0.4mm FS-T 11.7±0.4mm
2	0.49N	0.074N				
4	0.98N	0.15N				
5	1.47N	0.20N				

2) Short hinge lever

4th digit number of Part No.	O.F.max.	R.F.min.	P.T.max.	M.D.max.	O.T.max.	O.P.
0	0.098N	0.004N	2.5mm	0.5mm	0.8mm	Distance from mounting holes: 8.8±0.8mm Distance from stand-off: FS 12.2±0.9mm FS-T 12.1±0.9mm
2	0.20N	0.017N				
4	0.39N	0.034N				
5	0.59N	0.039N				

3) Hinge lever

4th digit number of Part No.	O.F.max.	R.F.min.	P.T.max.	M.D.max.	O.T.max.	O.P.
0	0.078N	0.003N	2.8mm	0.8mm	1.2mm	Distance from mounting holes: 8.8±0.8mm Distance from stand-off: FS 12.2±0.9mm FS-T 12.1±0.9mm
2	0.16N	0.015N				
4	0.34N	0.029N				
5	0.54N	0.034N				

4) Long hinge lever

4th digit number of Part No.	O.F.max.	R.F.min.	P.T.max.	M.D.max.	O.T.max.	O.P.
0	—	—	3.5mm	1.0mm	1.6mm	Distance from mounting holes: 8.8±1.2mm Distance from stand-off: FS 12.2±1.3mm FS-T 12.1±1.3mm
2	0.12N	0.012N				
4	0.25N	0.025N				
5	0.44N	0.029N				

5) Simulated roller lever

4th digit number of Part No.	O.F.max.	R.F.min.	P.T.max.	M.D.max.	O.T.max.	O.P.
0	—	—	2.8mm	0.8mm	1.2mm	Distance from mounting holes: 11.65±0.8mm Distance from stand-off: FS 15.05±0.9mm FS-T 14.95±0.9mm
2	0.16N	0.015N				
4	0.34N	0.029N				
5	0.54N	0.034N				

6) Roller lever

4th digit number of Part No.	O.F.max.	R.F.min.	P.T.max.	M.D.max.	O.T.max.	O.P.
0	—	—	2.5mm	0.5mm	0.8mm	Distance from mounting holes: 14.5±0.8mm Distance from stand-off: FS 17.9±0.9mm FS-T 17.8±0.9mm
2	0.20N	0.017N				
4	0.39N	0.034N				
5	0.59N	0.039N				

DIMENSIONS

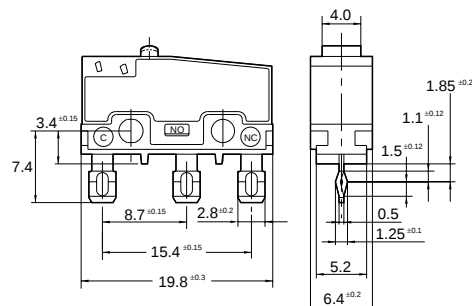
The CAD data of the products with a **CAD Data** mark can be downloaded from: <http://industrial.panasonic.com/ac/e>

1. FS switches (In-line terminal type)

mm General tolerance: ±0.25

1-(1) Solder terminal (without guard)

CAD Data



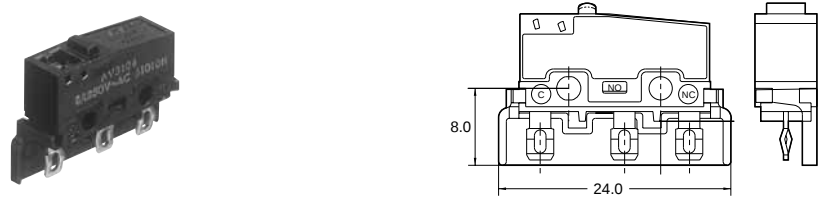
Dimensions other than drawn above is same as self-standing PC board terminal.

AV3,AVM3/AVT3,AVL3

1-(2) Solder terminal (with guard)

mm General tolerance: ±0.25

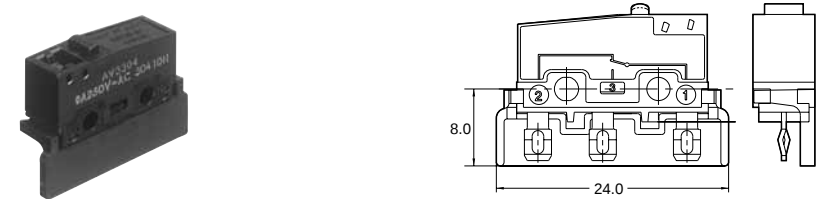
CAD Data



Dimensions other than drawn above is same as guardless type.

1-(3) Solder terminal (with opposite side guard)

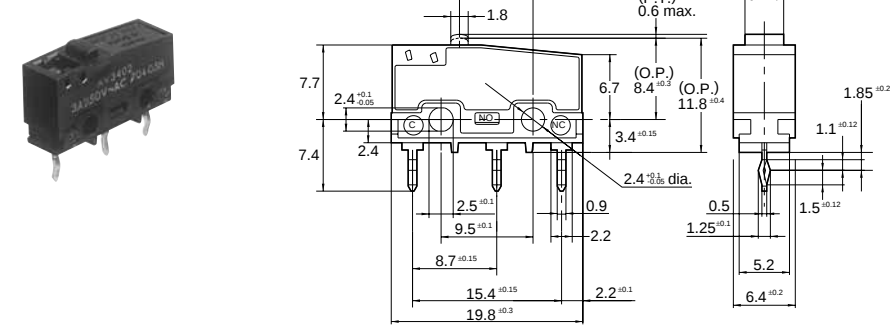
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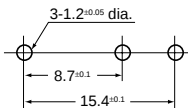
Dimensions other than drawn above is same as guardless type.

1-(4) Self-standing PC terminal
Pin plunger

CAD Data



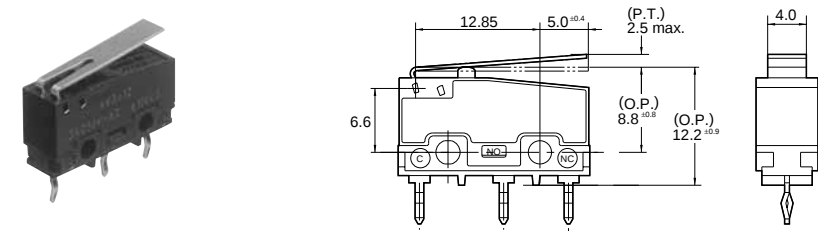
PC board pattern



Pretravel, Max. mm		0.6
Movement differential, Max. mm		0.1
Overtravel, Min. mm		0.4
Operating position	Distance from mounting hole, mm	8.4±0.3
	Distance from standoff, mm	11.8±0.4

Short hinge lever

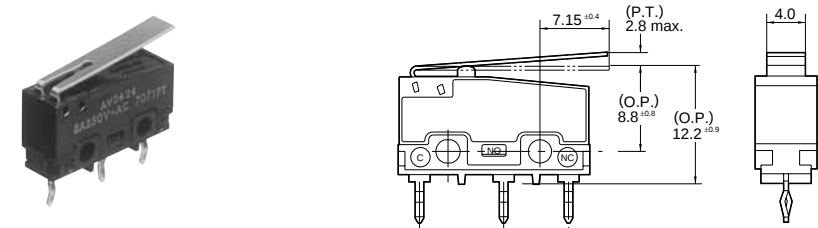
CAD Data



Pretravel, Max. mm		2.5
Movement differential, Max. mm		0.5
Overtravel, Min. mm		0.8
Operating position	Distance from mounting hole, mm	8.8±0.8
	Distance from standoff, mm	12.2±0.9

Hinge lever

CAD Data

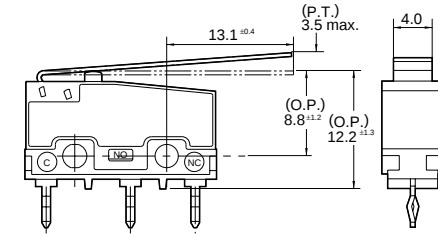


Pretravel, Max. mm		2.8
Movement differential, Max. mm		0.8
Overtravel, Min. mm		1.2
Operating position	Distance from mounting hole, mm	8.8±0.8
	Distance from standoff, mm	12.2±0.9

Long hinge lever

mm General tolerance: ± 0.25

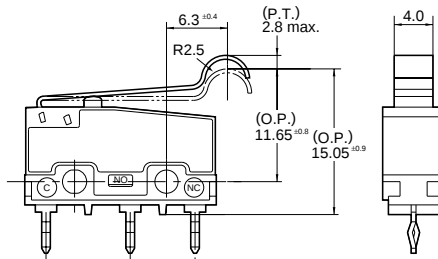
CAD Data



Pretravel, Max. mm		3.5
Movement differential, Max. mm		1.0
Overtravel, Min. mm		1.6
Operating position	Distance from mounting hole, mm	8.8±1.2
	Distance from standoff, mm	12.2±1.3

Simulated roller lever

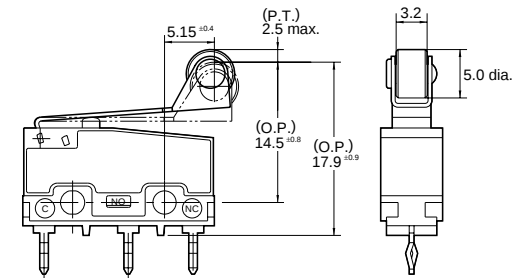
CAD Data



Pretravel, Max. mm		2.8
Movement differential, Max. mm		0.8
Overtravel, Min. mm		1.2
Operating position	Distance from mounting hole, mm	11.65±0.8
	Distance from standoff, mm	15.05±0.9

Roller lever

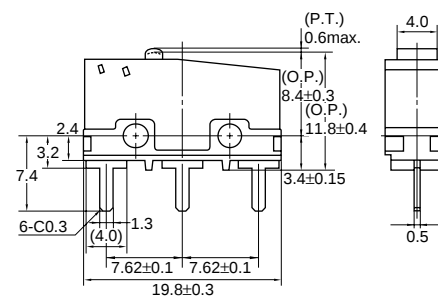
CAD Data



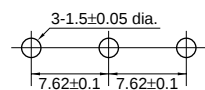
Pretravel, Max. mm		2.5
Movement differential, Max. mm		0.5
Overtravel, Min. mm		0.8
Operating position	Distance from mounting hole, mm	14.5±0.8
	Distance from standoff, mm	17.9±0.9

1-(5) Internationally common pitch PC terminal

CAD Data

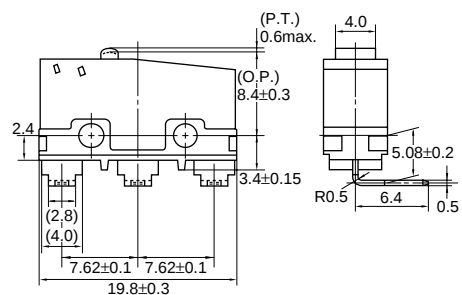


PC board pattern

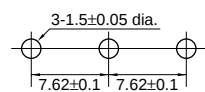


1-(6) Right angle terminal

CAD Data



PC board pattern

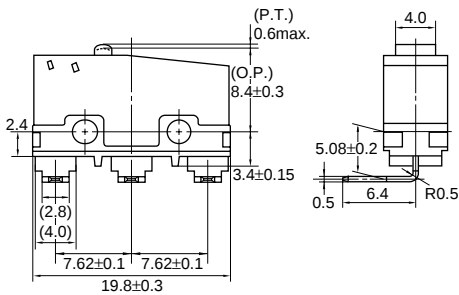


AV3,AVM3/AVT3,AVL3

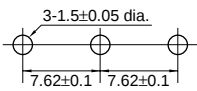
1-(7) Left angle terminal

mm General tolerance: ±0.25

CAD Data

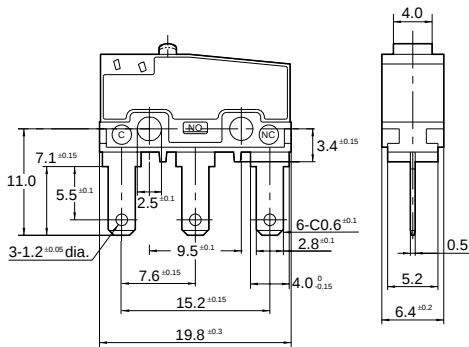


PC board pattern



1-(8) .110 Quick-connect terminal

CAD Data



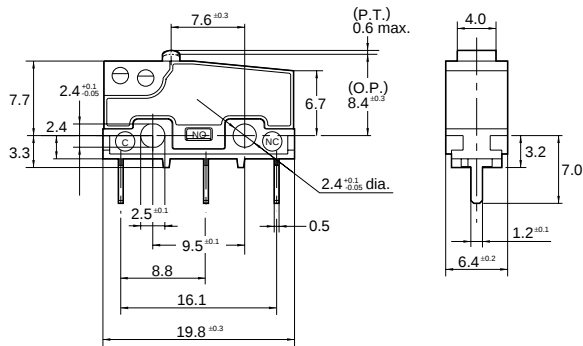
Dimensions other than drawn above is same as self-standing PC board terminal.

2.FS-T switches (Cross-line terminal type)

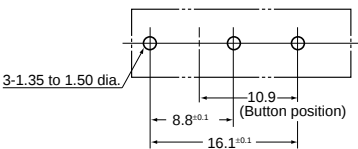
2-(1) PC board terminal

Pin plunger

CAD Data



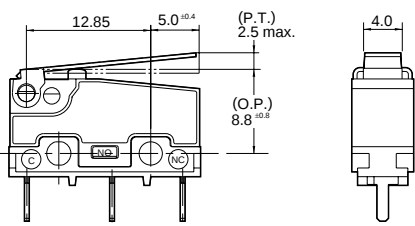
PC board pattern



Pretravel, Max. mm		0.6
Movement differential, Max. mm		0.1
Overtravel, Min. mm		0.4
Operating position	Distance from mounting hole, mm	8.4±0.3
	Distance from standoff, mm	11.7±0.4

Short hinge lever

CAD Data

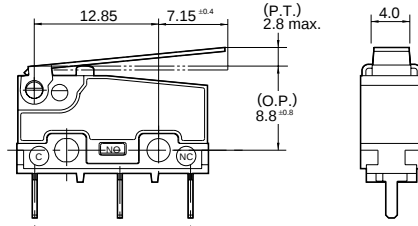


Pretravel, Max. mm		2.5
Movement differential, Max. mm		0.5
Overtravel, Min. mm		0.8
Operating position	Distance from mounting hole, mm	8.8±0.8
	Distance from standoff, mm	12.1±0.9

Hinge lever

mm General tolerance: ± 0.25

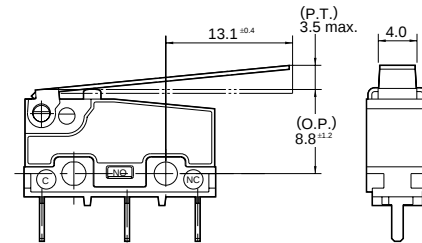
CAD Data



Pretravel, Max. mm		2.8
Movement differential, Max. mm		0.8
Overtravel, Min. mm		1.2
Operating position	Distance from mounting hole, mm	8.8±0.8
	Distance from standoff, mm	12.1±0.9

Long hinge lever

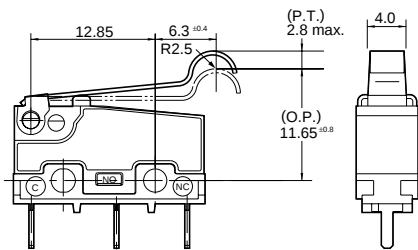
CAD Data



Pretravel, Max. mm		3.5
Movement differential, Max. mm		1.0
Overtravel, Min. mm		1.6
Operating position	Distance from mounting hole, mm	8.8±1.2
	Distance from standoff, mm	12.1±1.3

Simulated roller lever

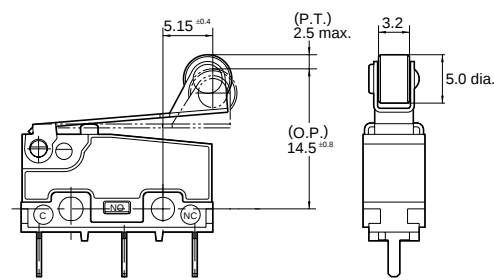
CAD Data



Pretravel, Max. mm		2.8
Movement differential, Max. mm		0.8
Overtravel, Min. mm		1.2
Operating position	Distance from mounting hole, mm	11.65±0.8
	Distance from standoff, mm	14.95±0.9

Roller lever

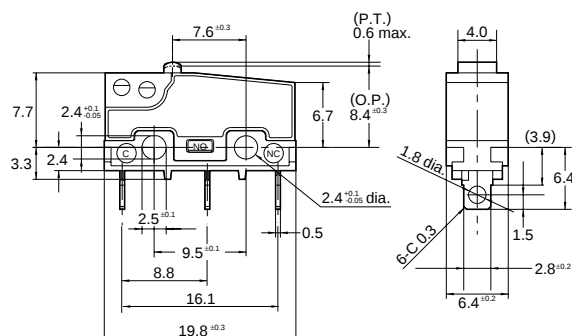
CAD Data



Pretravel, Max. mm		2.5
Movement differential, Max. mm		0.5
Overtravel, Min. mm		0.8
Operating position	Distance from mounting hole, mm	14.5±0.8
	Distance from standoff, mm	17.8±0.9

2-(2) Solder terminal

CAD Data



As for the dimensions of lever types, dimensions other than terminals are same as self-standing solder terminal.

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