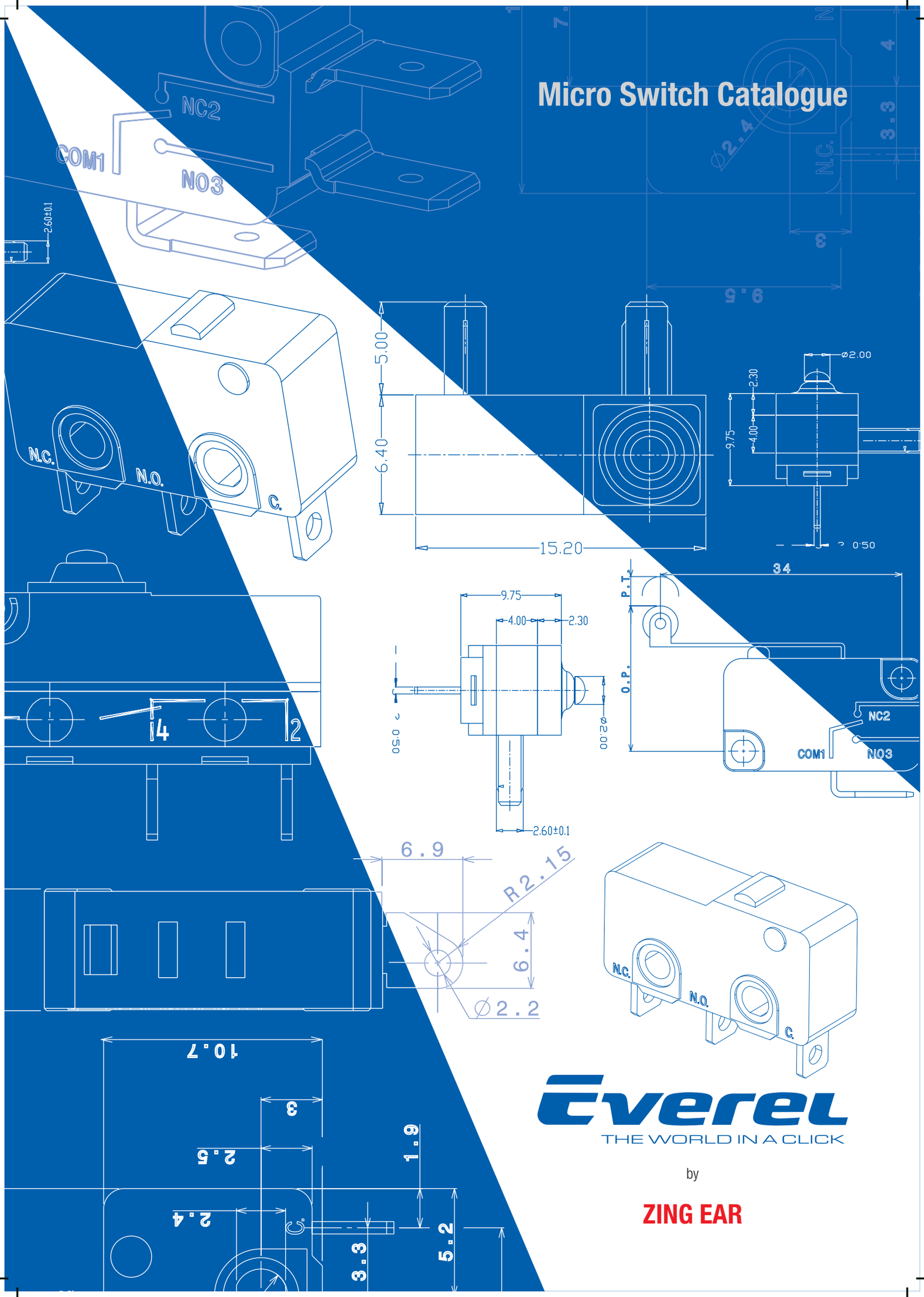
Micro Switch Catalogue



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by

ZING EAR

Micro Switch Catalogue

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Glossary

Code	Name	Meanings
PT	Pre-travel	Distance or angle which actuator travels from Free Position to Operating Position.
OT	Over-travel	Distance or angle which actuator travels from Operating Position to Total Travel Position.
DT (or MD)	Movement-Differential	Distance or angle which actuator travels from Operating Position to Release Position.
RT	Release travel	The displacements of actuator from release position to free position.
OF	Operating force	Amount of force applied to switch actuator to cause snap action contact from Free Position Operating Position.
TF	Total travel force	Amount of force applied to actuator in order to move from Operating Position to Total Travel Position
RF	Release force	Amount of force applied to switch actuator in order to move from Total Travel Position to Release Position.
TTP	Total travel position	Position at where actuator reaches Over-Travel limit.
OP	Operating position	Position of actuator at where contacts snap from Free Position to Operating Position.
RP	Release position	Position of actuator at where contacts snap from Operating Position to Free Position.
FP	Free position	Position of actuator when no external force is applied.

Contents

G3 Series

Micro Switch Ordering Instruction

G3	03	130	S		00	
Switch Type	**Electrical Rating**	**Operating Force at pin Plunger Max**	**Terminal Style**		**Lever Type**	
G3 Series Micro-Switch	**03** **ENEC** **0.1 A 125/250VAC 48 VDC** **3 A 12 VDC μ 1E5** UL 0.1 A 125/250VAC 48 VDC 3 A 12 VDC	**130** 130gf Max	**E** Molded lead wires downwards.	**Q** 2.5 x 7.5 mm type terminals	**00** No lever Pin Plunger	**23** 23# lever (C1M3)
		... Other	**G** Molded lead wires on left side (plunger side)	**Q1** 2.5 x 6.7 mm type 1# terminals	**01** Leaf lever (A, A1, M3)	**25** 25# lever (A, A1, M3)
			F Molded lead wires on right side (plunger side)	**D** 2.5 x 5.15 mm type 2# terminals	**02** Straight Leaf lever (A, A1, M3)	**28** 28# lever (A, A1, M3)
			S Solder terminals	**Q3** 2.5 x 8.2 mm type 3# terminals	**03** 03# straight lever (Only for C type case)	**31** Simulated Roller (A, A1, M3)
			M Short Solder terminals	**A** Left Side Fork type terminals	**04** 04# lever (A, A1, M3)	**35** 35# lever (A, A1, M3)
			K Long solder terminals	**B** Right Side Fork type terminals	**05** Simulated Roller (A, A1, M3)	**36** 36# lever (A, A1, M3)
			N None-hole short Solder terminals	**C** Fork type terminals	**08** Straight Leaf lever (A2)	**37** 37# lever (A, A1, PHA)
			P Straight PCB terminals (0.6 mm width) (0.6 mm, 3.5 mm)	**W** The B Solder terminals	**09** Mini Simulated Roller lever (A, A1, M3)	**38** 38# lever (C1, C2)
			R Right side PCB terminals		**10** 10# lever (A, A1, PHA)	**40** 40# lever (C1, C2)
			L Left side PCB terminals		**13** 13# lever (Only for T type case)	**41** 41# lever (A, A1, M3)
			I Big Solder terminals (1.8 mm)		**15** Upside down simulated roller lever (A, A1, M3)	**45** 45# lever (A, A1, M3)
			J Left Right straight PCB terminals		**21** 21# straight lever (Only for C type case)	**52** 52# lever (A, A1, M3)
					22 22# lever (A, A1, M3)	**...** Other

A	2		A	E	A	280
Circuit Code	**Shape and Posts**		**Posts Dimension**	**AWG Type (for Wire type only)**	**AWG Number (for Wire type only)**	**Wires lenght**
A SPDT	1 A type no post	17 D1 type left side posts	A ; A1; A2; B: 2.6 x 5.0 mm M3: 2.95 x 1.4 mm C1; C2; D1; D2: 2.95 x 1.5 mm C1M3: 3.00 x 1.5 mm	No molded lead wires	No molded lead wires	300 mm lenght standard lead wires
B SPST - NC	2 A type left side posts	18 D1 type right side posts	A ¢ 2.2 x 0.9 mm posts ¢ 2.2 x 0.9 mm (A A1)	M 18# Only applicable to bottom outlet switch	A UL1007	280 280 mm length
C SPST - NO	3 A type right side posts	19 D1 type two sides posts	B ¢ 2.5 x 1.5 mm posts ¢ 2.5 x 1.5 mm (A A1 B)	E 20# Only applicable to A type, A1 type, M3 type bottom outlet switch, C type out of the wo wire switch	C UL1430	... Other
	4 B type no post	28 A type no post	C ¢ 2.6 x 2.5 mm posts ¢ 2.6 x 2.5 mm (A A1)	F 22#	D UL1061	
	5 B type left side posts	29 A type left side posts	D Cross type ¢ 4.6 x 5.0 mm posts ¢ 4.6 x 5.0 mm	G 24#	E UL1330	
	6 B type right side posts	30 A type right side posts	E ¢ 2.95 x 0.75 mm posts	H 26#	F AVSS	
	7 M3 type posts	31 A type two sides posts	F ¢ 2.6 x 3.8 mm posts ¢ 2.6 x 3.8 mm (A A1)	I 28#	H UL1332	
	8 A type two sides posts	33 T type left side posts	H ø 2.6 x 2.0 mm posts ø 2.6 x 2.0 mm (A A1)	J 30#	L FLRY-A	
	9 B type two sides posts	34 T type right side posts	K ø 2.95 x 5.0 mm posts ø 2.95 x 5.0 mm (C C1)	K 32#	I UL3132	
	12 C1 type two sides posts	47 C1M3 type posts	J ø 2.6 x 1.4 mm posts ø 2.6 x 1.4 mm (A2)	L 34#	... Other	
	13 C1 type no post		L ¢ 2.6 x 1.4 mm posts ¢ 2.6 x 1.4 mm (A2)	... Other		
	14 C1 type left posts		... Other			
	15 C1 type right posts					
	16 D1 type no post					

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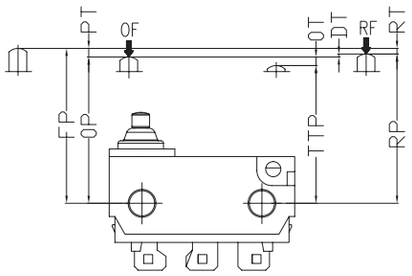
G3	03	130	S	00	A	2	A	E	A	280
Switch Type	Electrical Rating	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

G3 series

Subminiature Sealed Micro Switch



Features

- Designed for Water and Dust Tight (IP67)
- Small Compact Size
- Global Safety Approvals
- Long Life and High Reliability
- Variety of Levers
- Wide Range of Wiring Terminals
- Widely used in Automotive Electronics, Appliance and Industrial Control etc.
- Customized Designs

Applications

- Car
- Air Conditioner
- Communication
- Electric Tooth Brush
- Toys
- Home Appliances
- Motor Control

Parameters

Rating		0.1A, 125/250VAC; 3A/12VDC; 0.1A/48VDC; μ 1E5
Operating Frequency	**Electrical**	0.1A - 120; 3A - 10~30 cycles/minute
	Mechanical	120 cycles/minute
Contact Resistance (Initiative)		100mΩ Max (without wire type)
Insulation Resistance (at500VDC)		100mΩ Min
Vibration durability		10~55Hz, move0.75mm(p-p)
Dielectric Strenght		500VAC(50~60Hz)
Storage Temperature		-40°C ~ +85°C
Storage Humidity		85%RHMax
Service Life	**Electrical**	Min. 100,000 cycles (Depend on part No.)
	Mechanical	Min. 500,000 cycles

G3	03	130	S	00	A	2	A	E	A	280
Switch Type	Electrical Rating	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

Electrical Rating

03
ENEC:0.1A
125/250VAC
48VDC;3A 12VDC μ 1E5
UL: 0.1A 125/250VAC
48VDC;3A 12VDC

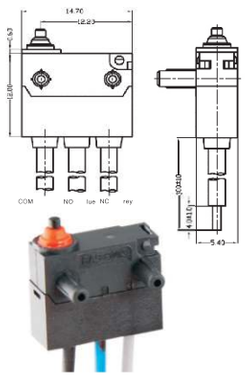
Operating Force at pin Plunger Max

130
130gf Max.

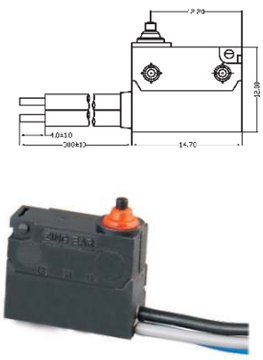
...
Other

Terminal Type

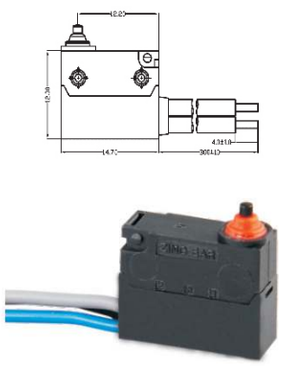
E Wires leads to bottom



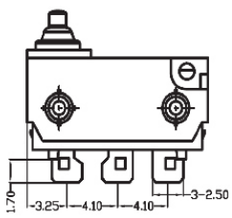
G Wires leads to left side (plunger side)



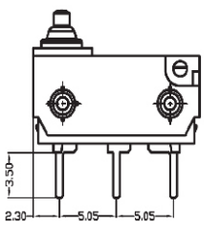
F Wires leads to right side (opposite to plunger side)



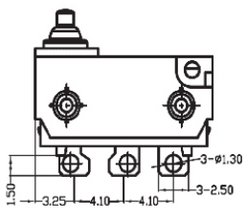
S Solder Terminals



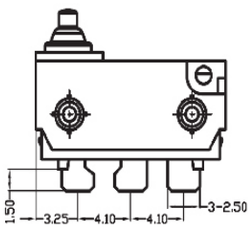
P Straight PCB Terminals



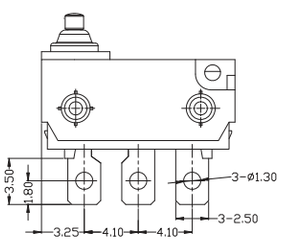
M Short Solder Terminals



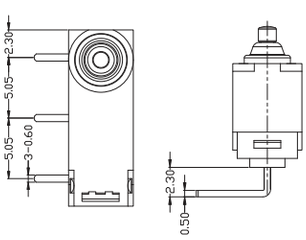
N No-hole Short Solder Terminals



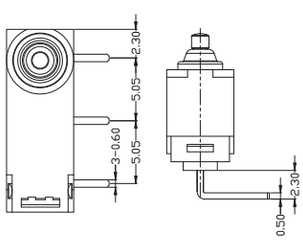
K Long Solder Terminals



L Left Angled PCB Terminals

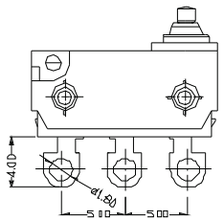


R Right Angled PCB Terminals

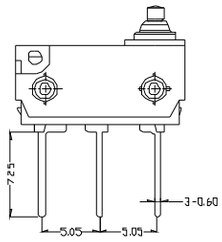


G3	03	130	S	00	A	2	A	E	A	280
Switch Type	Electrical Rating	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

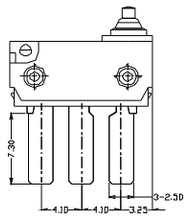
I Big Solder Terminals



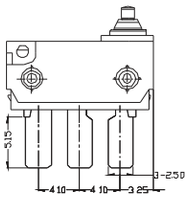
J Long Straight PCB Terminals



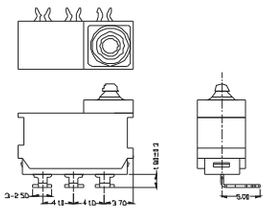
Q 2.5 Type Terminals



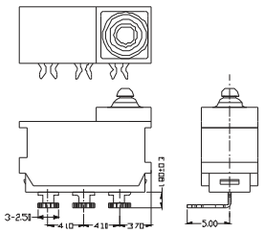
D 2.5 Type 2# Terminals



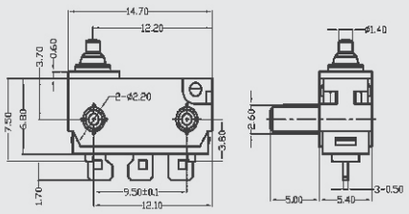
A Left Side Fork Type Terminals



B Right Side Fork Type Terminals

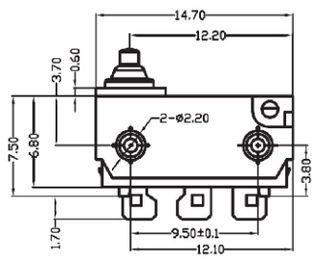


All terminals' thickness are 0.5 mm

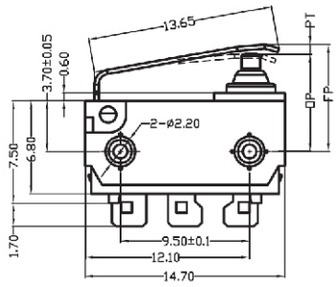


Lever Type

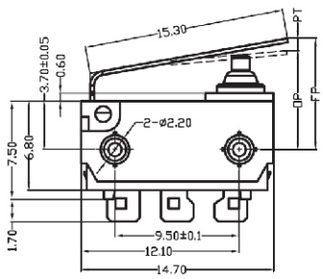
00 Pin Plunger



01 Leaf Lever

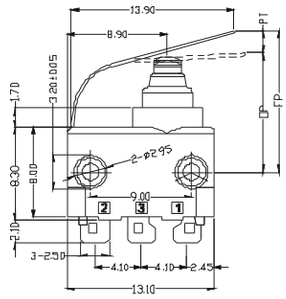


02 Straight Leaf Lever

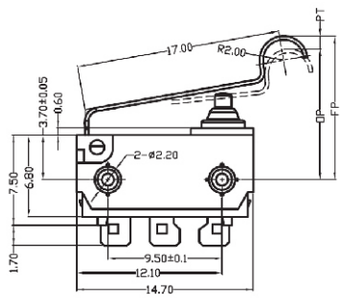


G3	03	130	S	00	A	2	A	E	A	280
Switch Type	Electrical Rating	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

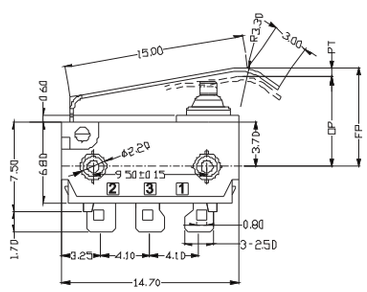
03 Straight Leaf Lever



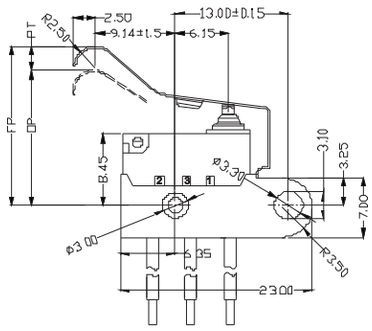
05 Simulated roller Leaf Lever



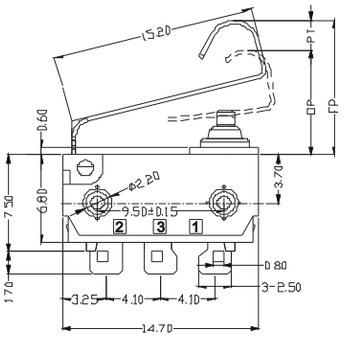
09 Mini Simulated roller Leaf Lever



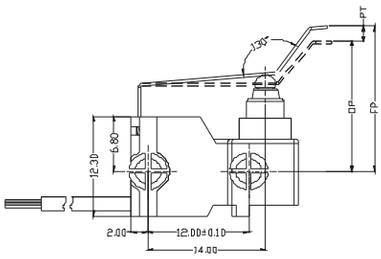
10 10# Lever



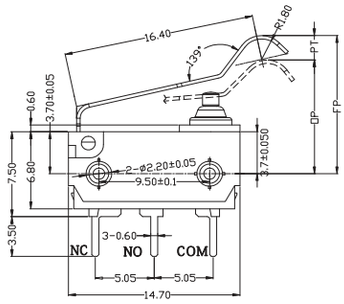
15 Upside Down Simulated Roller Lever



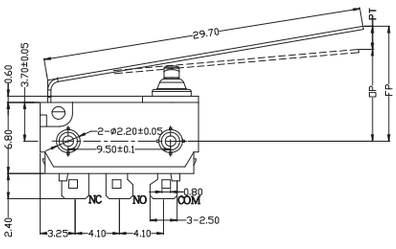
13 13# Lever



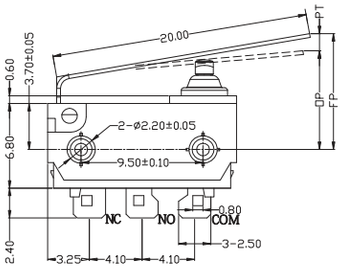
22 22# Lever



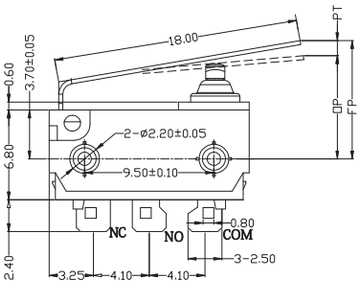
25 25# Lever



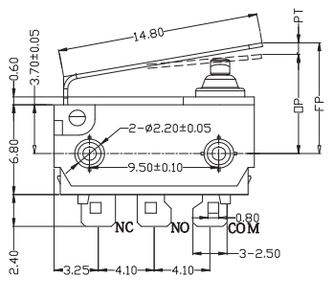
28 28# Lever



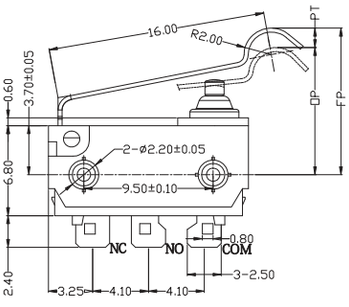
35 35# Lever



36 36# Lever



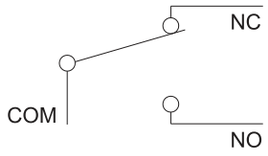
41 41# Lever



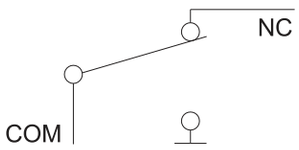
G3	03	130	S	00	A	2	A	E	A	280
Switch Type	Electrical Rating	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

Circuit Configuration

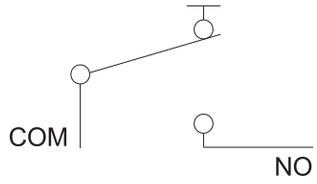
A SPDT



B SPST-NC



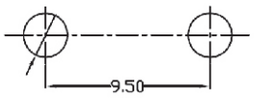
C SPST-NO



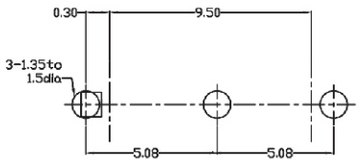
Mounting Hole Dimensions

Dimension between posts

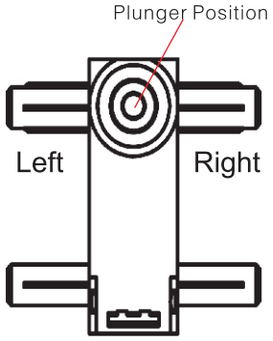
Posts with different dia



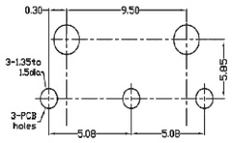
Straight PCB terminals mounting hole



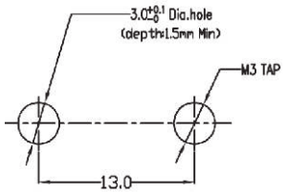
Posts identification



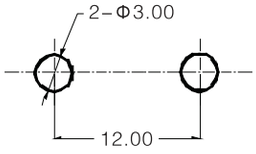
Left/Right angled PCB terminals mounting hole



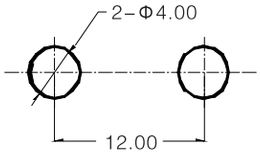
M3 type mounting hole



T type 3.0 mounting hole

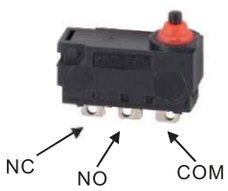


T type 4.0 mounting hole

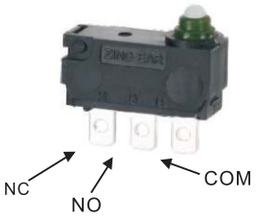


Shape

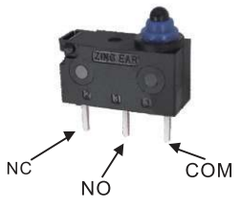
A type basic shape



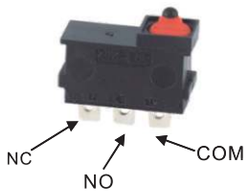
A1 type basic shape



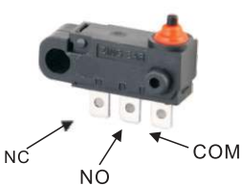
B type basic shape



B type basic shape



M3 type basic shape



G3	03	130	S	00	A	2	A	E	A	280
Switch Type	Electrical Rating	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

C type basic shape

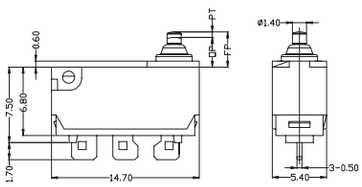
D type basic shape

C1M3 shape

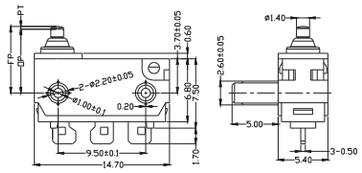
T type basic shape

Posts

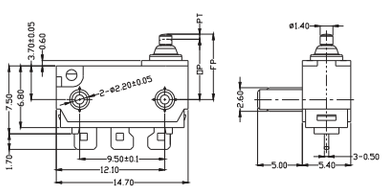
1 A type no post



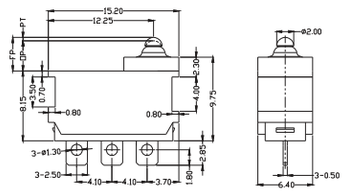
2 A type left side posts



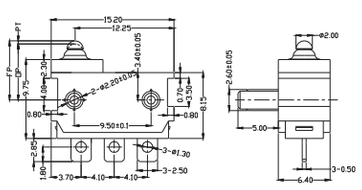
3 A type right side posts



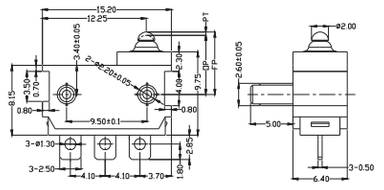
4 B type no post



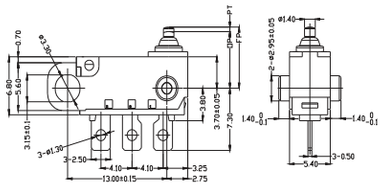
5 B type left side posts



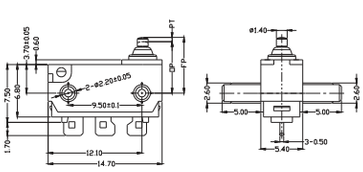
6 B type right side posts



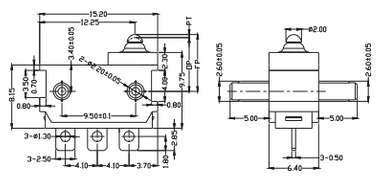
7 M3 type post



8 A type two side posts



9 B type two side posts



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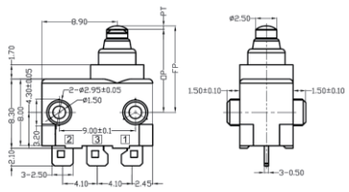
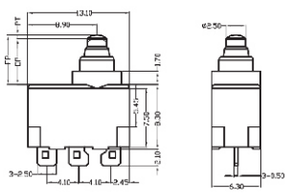
THE WORLD IN A CLICK

G3	03	130	S	00	A	2	A	E	A	280
Switch Type	Electrical Rating	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

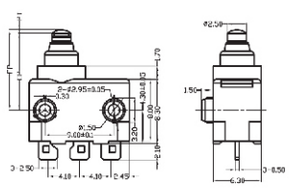
12 20 C1/C2 type two side posts



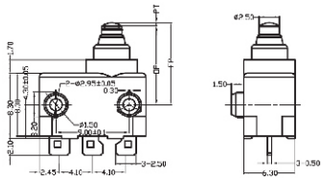
13 21 C1/C2 type no post



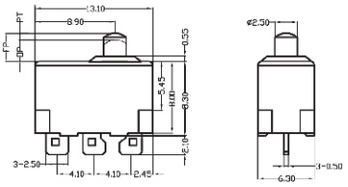
14 22 C1/C2 type left side posts



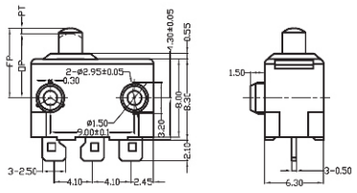
15 23 C1/C2 type right side posts



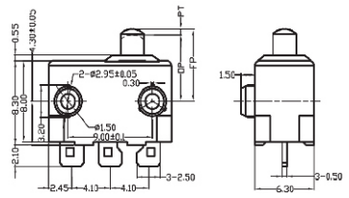
16 24 D1/D2 type no post



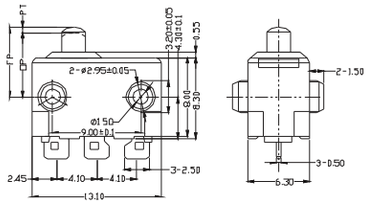
17 25 D1/D2 type left side posts



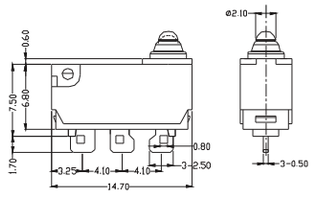
18 26 D1/D2 type right side posts



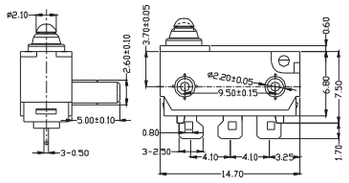
19 27 D1/D2 type two side posts



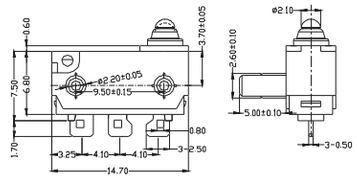
28 A1 type no post



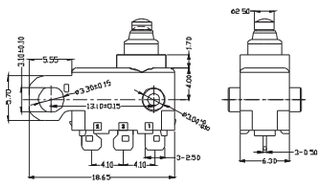
29 A1 type left side posts



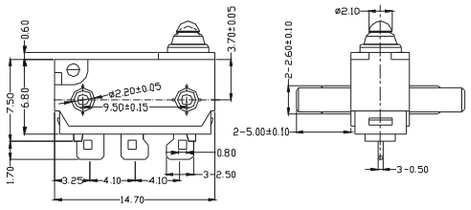
30 A1 type right side posts



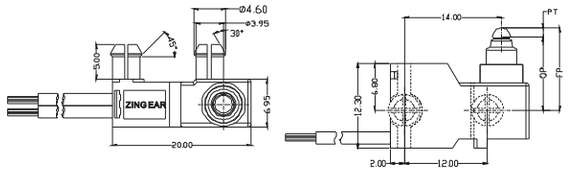
47 C1M3 type posts



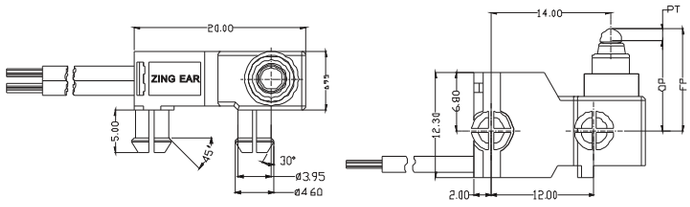
31 A1 type two side posts



33 T type left side posts



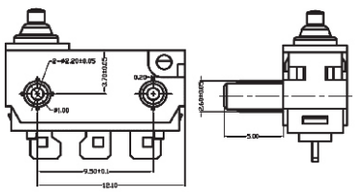
34 T type right side posts



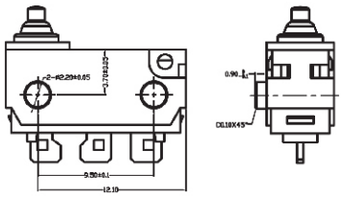
G3	03	130	S	00	A	2	A	E	A	280
Switch Type	Electrical Rating	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

Post Dimension

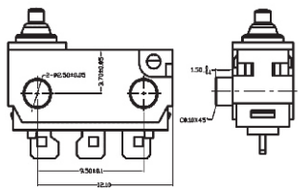
Standard posts: ¢ 2.6 x 5.0 mm



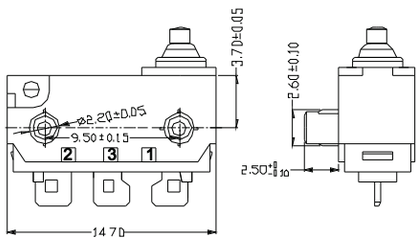
A ¢ 2.2 x 0.9 mm posts



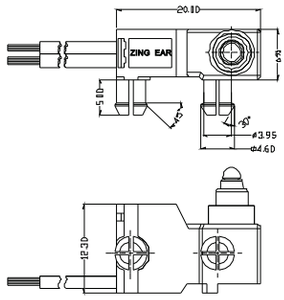
B ¢ 2.5 x 1.5 mm posts



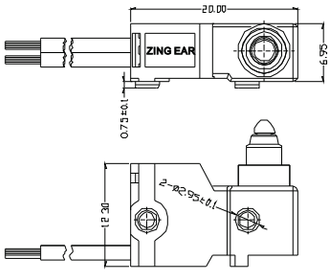
C ¢ 2.6 x 2.5 mm posts



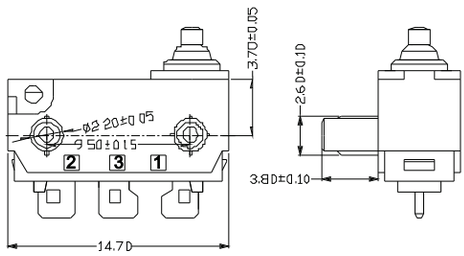
F ¢ 2.6 x 3.8 mm posts



D ¢ 4.6 x 5.0 mm posts



E ¢ 2.95 x 0.75 mm posts



AWG Type (for Wire type only)

No molded lead wires

- **M** 18# (Only applicable to bottom outlet switch)
- **E** 20# (Only applicable to A type, A1 type, M3 type bottom outlet switch, C type out of the wo wire switch)
- **F** 22#
- **G** 24#
- **H** 26#
- **I** 28#
- **J** 30#
- **K** 32#
- **L** 34#
- **...** Other

AWG Number (for Wire type only)

No molded lead wires

- **A** UL1007
- **C** UL1430
- **D** UL1061
- **E** UL1330
- **F** AVSS
- **H** UL1332
- **L** FLRY-A
- **I** UL3132
- **...** Other

Wires lenght

300 mm lenght standard lead wires

- **280** 280 mm length
- **...** Other

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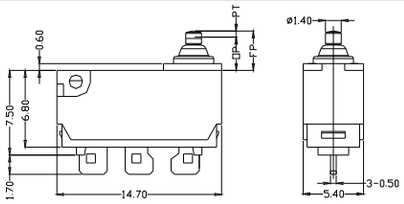
G3	03	130	S	00	A	2	A	E	A	280
Switch Type	Electrical Rating	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

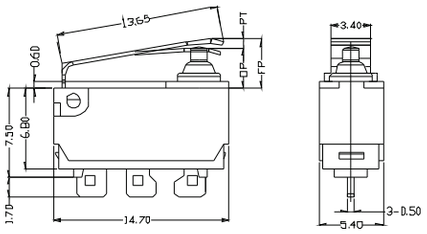
Dimensions and Operating Characteristics

G3 □□-□□□ S00A1



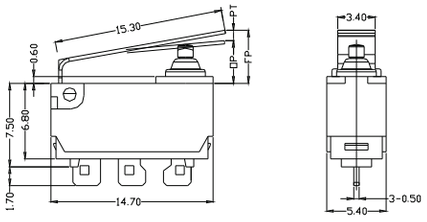
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	3.65	3.05±0.2

G3 □□-□□□ S01A1



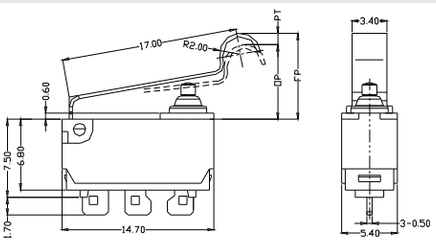
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	220	30	3	0.8	0.5	5.7	3.4±0.5

G3 □□-□□□ S02A1



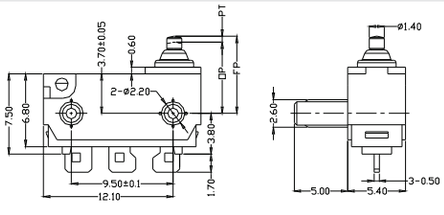
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	195	25	3.5	1.35	0.6	6.8	3.7±0.6

G3 □□-□□□ S05A1



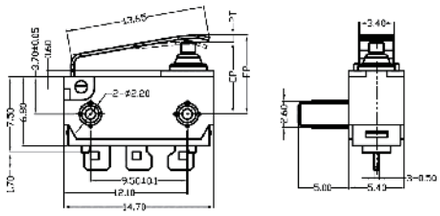
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	180	20	3.8	1.5	0.7	9.8	7.0±0.7

G3 □□-□□□ S00A3



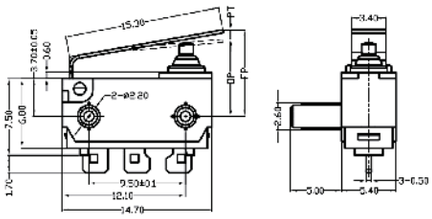
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	7.35	6.75±0.2

G3 □□-□□□ S01A3



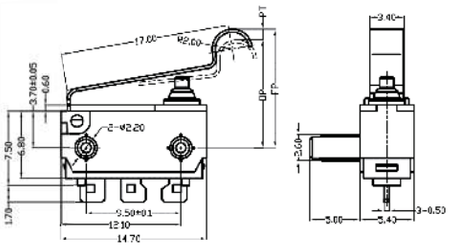
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	220	30	3	0.8	0.5	9.4	7.1±0.5

G3 □□-□□□ S02A3



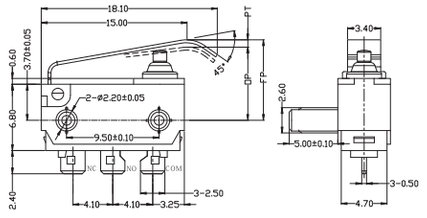
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	195	25	3.5	1.35	0.6	10.5	7.4±0.6

G3 □□-□□□ S05A3



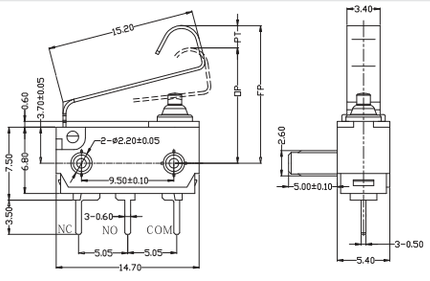
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	180	20	3.8	1.5	0.7	13.5	10.7±0.7

G3 □□-□□□ S09A3



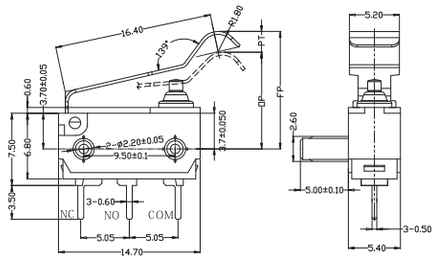
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	195	30	3.5	1.3	0.6	10.8	7.3±0.6

G3 □□-□□□ P15A3



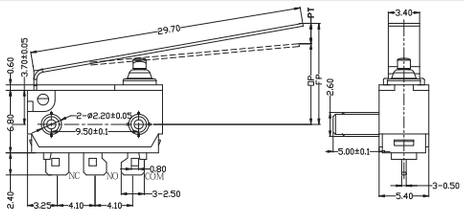
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	280	30	4	1.5	0.7	15.9	11.9±0.7

G3 □□-□□□ P22A3



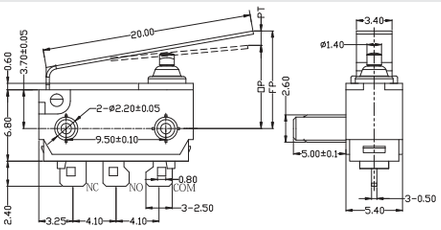
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	200	20	3.8	1.5	0.7	13.8	10.0±0.7

G3 □□-□□□ S25A3



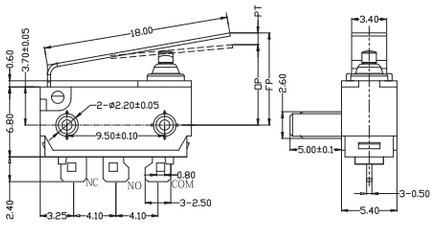
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	150	25	5.5	1.35	1.5	13	7.50±1.2

G3 □□-□□□ S28A3



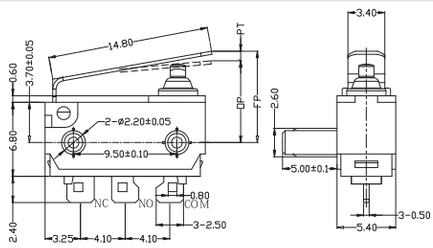
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	200	25	4.5	1.5	1	11.65	7.15±1.0

G3 □□-□□□ S35A3



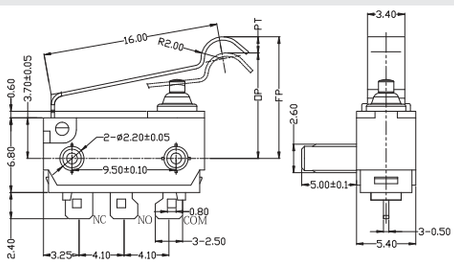
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	200	25	4.4	1.5	1	11.45	7.05±1.0

G3 □□-□□□ S36A3



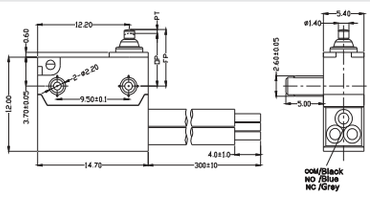
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	200	25	3.4	1.3	0.6	10.6	7.2±0.6

G3 □□-□□□ P41A3



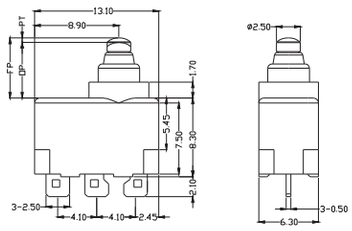
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	200	50	3.5	1.2	0.6	13	9.5±0.7

G3 □□-□□□ G00A3



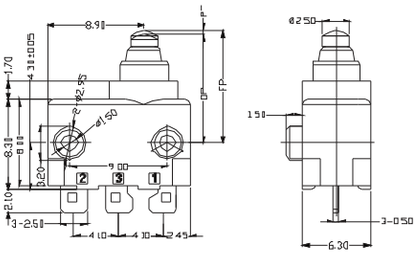
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	7.35	6.75±0.2

G3 □□-□□□ S00A13



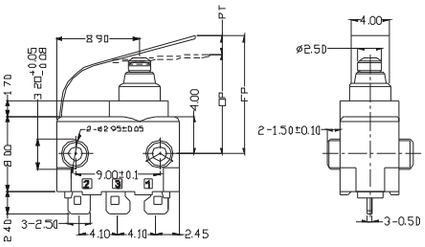
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	180	20	1.5	0.5	0.25	6.35	5.4±03

G3 □□-□□□ S00A15



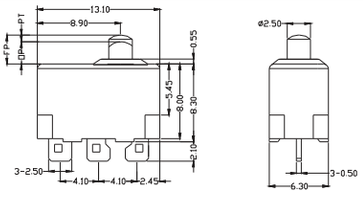
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	180	20	1.5	0.5	0.25	10.35	9.4±0.3

G3 □□-□□□ S03A12



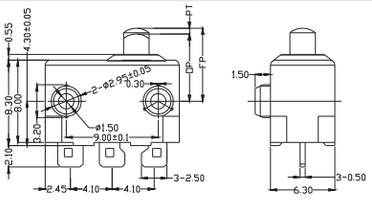
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	250	50	5.5	0.5	1.1	15	10.7±1.5

G3 □□-□□□ S00A16



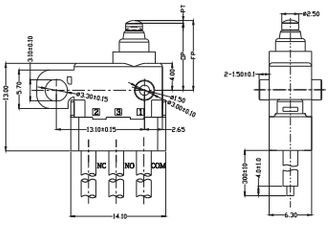
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	8	1.5	0.5	0.25	3.3	2.2±0.3

G3 □□-□□□ S00A18



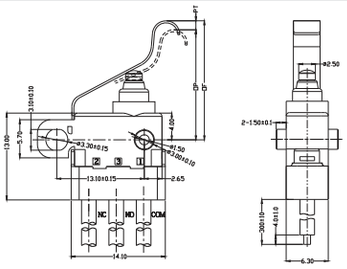
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	8	1.5	0.5	0.25	7.3	6.2±0.3

G3 □□-□□□ E00A47 - □□



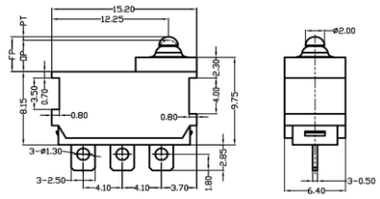
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	TTP
-130	200	20	15	0.5	0.25	10.45	9.4±0.3	8.4

G3 □□-□□□ E23A47 - □□



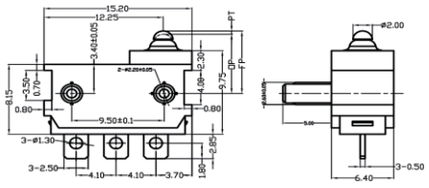
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	TTP
-130	300	50	3.5	0.5	1.1	18.50	16.45±1.5	14.9

G3 □□-□□□ K00A4



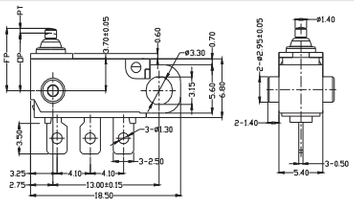
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	4.1	3.45±0.2

G3 □□-□□□ K00A6



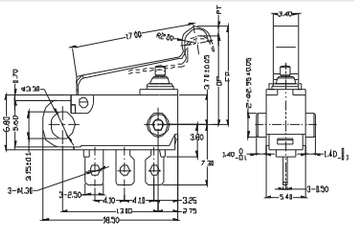
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	7.5	6.85±0.2

G3 □□-□□□ K00A7



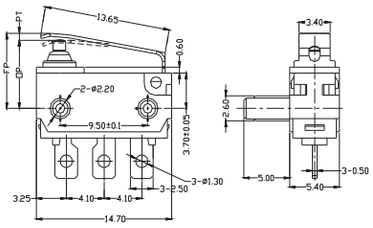
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	7.35	6.75±0.2

G3 □□-□□□ K05A7



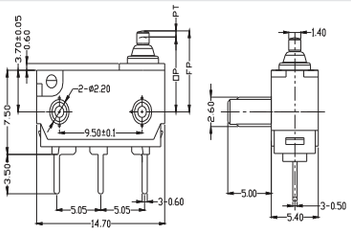
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	180	20	3.8	1.5	0.7	13.5	10.7±0.7

G3 □□-□□□ K01A2



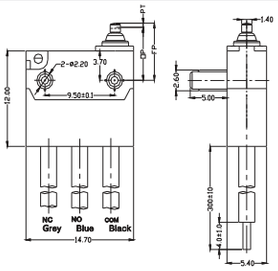
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	220	30	2	0.8	0.5	9.4	7.1±0.5

G3 □□-□□□ P00A3



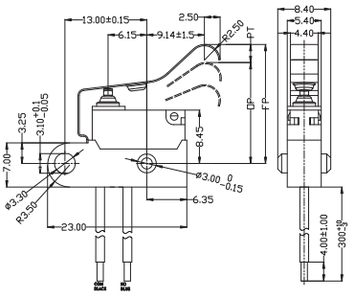
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	7.35	6.75±0.2

G3 □□-□□□ E00A3 - □□



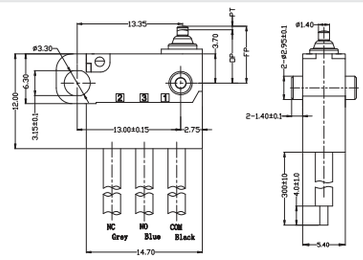
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	7.35	6.75±0.2

G3 □□-□□□ E37C1



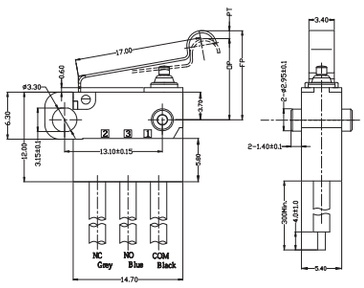
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	100	25	6	1.5	2	21	15±2.0

G3 □□-□□□ E00A7 - □□



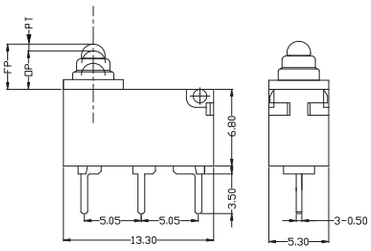
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	7.35	6.75±0.2

G3 □□-□□□ E05A7 - □□



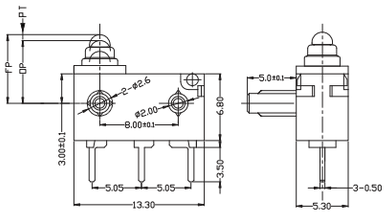
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	180	20	3.8	1.5	0.7	13.5	10.7±0.7

G3 □□-□□□ P00A52



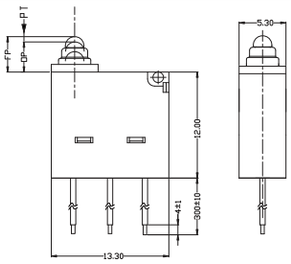
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	TTP
-130	130	30	1.3	0.6	0.25	4.2	3.4±0.3	2.3

G3 □□-□□□ P00A53



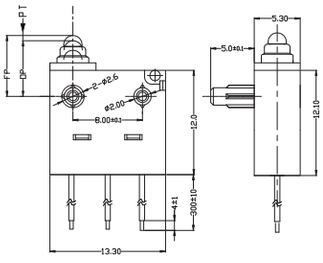
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	TTP
-130	130	30	1.3	0.6	0.25	7.2	6.4±0.3	5.3

G3 □□-□□□ E00A48 - □□



OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	TTP
-130	130	30	1.3	0.6	0.25	4.2	3.4±0.3	2.3

G3 □□-□□□ E00A49 - □□

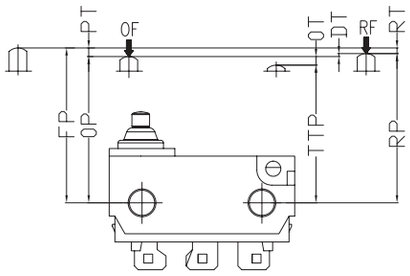


OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	TTP
-130	130	30	1.3	0.6	0.25	7.2	6.4±0.3	5.3

G3	03	A	180	K	00	A	20	A	E	A	280
Switch Type	Electrical Rating	Sub family	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

G303A/B series

Subminiature Sealed Micro Switch



Features

- Designed for Water and Dust Tight (IP67)
- Small Compact Size
- Global Safety Approvals, Customer Designs
- Long range and High Reliability
- Wide Range of Wiring Terminals
- Variety of Levers
- Widely used in Automotive Electronics, Appliance and Industrial Control
- Variety of shapes

Applications

- Car
- Air Conditioner
- Communication
- Electric Tool Brush
- Toys
- Bicycle

Parameters

Rating		0.1A / 125VAC; 3A/12VDC; 0.1A/250VAC; 0.1A/48VDC μ 1E5
Operating Frequency	**Electrical**	0.1A - 120; 3A - 10~30 cycles/minute
	Mechanical	120 cycles/minute
Contact Resistance (Initiative)		100mΩ Max
Insulation Resistance (at500VDC)		100mΩ Min
Vibration durability		10~55Hz, move 0.75mm(p-p)
Dielectric Strenght		500VAC(50~60Hz)
Storage Temperature		-40°C ~ +85°C
Storage Humidity		85%RHMax
Service Life	**Electrical**	100,000 cycles
	Mechanical	Min. 500,000 cycles

G303A/B Series

Micro Switch Ordering Instruction

G3	03	A	180	K	00
Switch Type	**Electrical Rating**	**Sub family**	**Operating Force at pin Plunger Max**	**Terminal Style**	**Lever Type**
G3 Series Micro-Switch	**03** **ENEC** **0.1 A 125/250VAC 48 VDC** **3 A 12 VDC μ 1E5** UL 0.1 A 125/250VAC 48 VDC 3 A 12 VDC	**A** IP67	**180** 180gf Max	**E** Molded lead wires downwards.	**00** No lever Pin Plunger
		B IP40	**130** 130gf Max	**G** Molded lead wires on left side (plunger side)	**03** 03# straight lever (Only for C type case)
				F Molded lead wires on right side (plunger side)	**38** 38# lever (C1, C2)
				K Long solder terminals	**...** Other
				I Big Solder terminals (1.8 mm)	
				P Straight PCB terminals (0.6 mm width) (0.6 mm, 3.5 mm)	
				R Right side PCB terminals	
				L Left side PCB terminals	
				J Left Right straight PCB terminals	
				S Solder terminals	
				... Other	

A	20	A	E	A	280
Circuit Code	**Shape and Posts**	**Posts Dimension**	**AWG Type (for Wire type only)**	**AWG Number (for Wire type only)**	**Wires lenght**
A SPDT	**20** C2 type two sides posts	**A**	No molded lead wires	No molded lead wires	300 mm lenght standard lead wires
B SPST - NC	**21** C2 type no post	**B** ø 2.95 x 5.0 mm posts	**E** 20#	**A** UL1007	**280** 280 mm length
C SPST - NO	**22** C2 type left posts	**C** ⌀ 2.95 x 1.5 mm posts	**F** 22#	**F** AVSS	**...** Other
	23 C2 type right posts	**...** Other	**G** 24#	**L** FLRY-A	
	24 D2 type no post		**...** Other	**...** Other	
	25 D2 type left side posts				
	26 D2 type right side posts				
	27 D2 type two sides posts				
	... Other				

G3	03	A	180	K	00	A	20	A	E	A	280
Switch Type	Electrical Rating	Sub family	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

Electrical Rating

03

ENEC
0.1 A 125/250VAC 48 VDC
3 A 12 VDC μ 1E5
UL
0.1 A 125/250VAC 48 VDC
3 A 12 VDC

Sub family

A
IP67

B
IP40

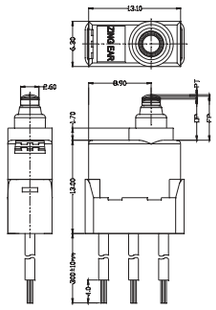
Operating Force at pin Plunger Max

180
180gf Max.

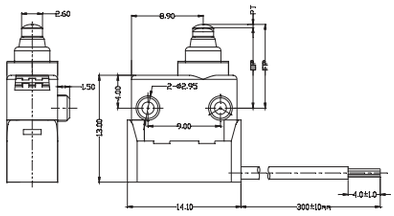
130
130gf Max.

Terminal Type

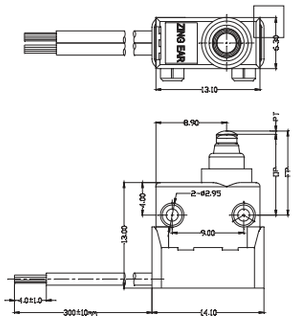
E Wires leads to bottom



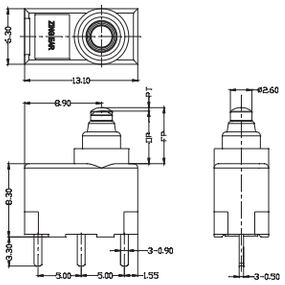
G Wires leads to left side (plunger side)



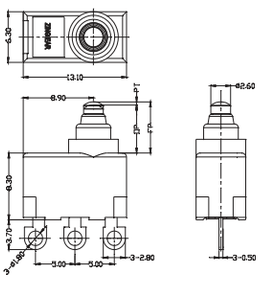
F Wires leads to right side (opposite to plunger side)



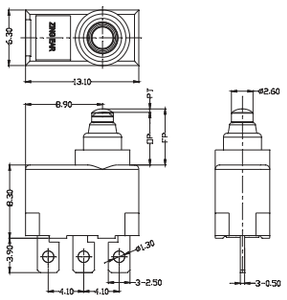
P Straight PCB Terminals



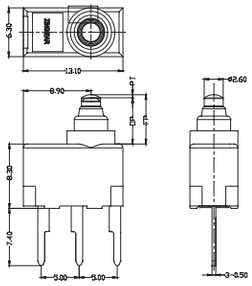
I Big Solder Terminals



K Long Solder Terminals



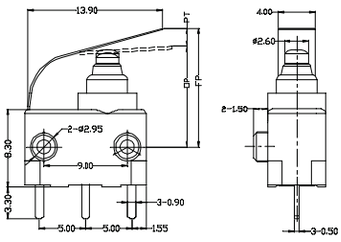
J Long Straight PCB Terminals



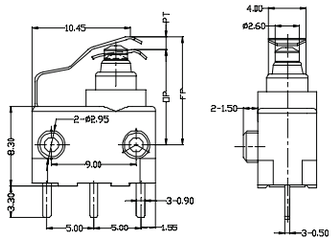
G3	03	A	180	K	00	A	20	A	E	A	280
Switch Type	Electrical Rating	Sub family	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

Lever Type

03 Straight leaf lever

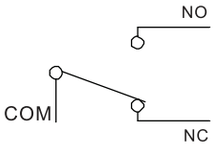


38 Leaf Lever

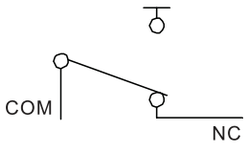


Contact Configuration

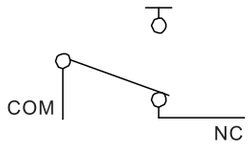
A SPDT



B SPST-NC

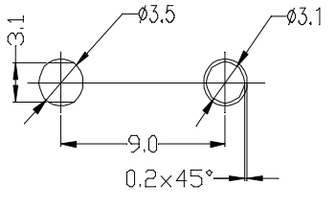


C SPST-NO



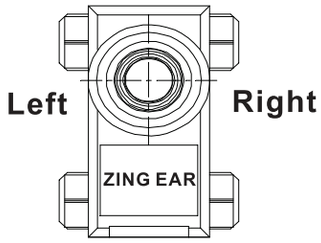
Mounting Hole Dimensions

Dimension between posts



Posts direction define

Dimension between posts



Shape and Posts

20 C2 type two sides posts

21 C2 type no post

22 C2 type left posts

23 C2 type right posts

24 D2 type no post

25 D2 type left side posts

26 D2 type right side posts

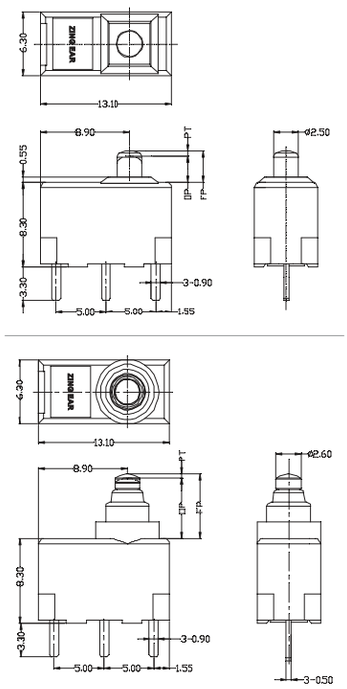
27 D2 type two sides posts

... Other

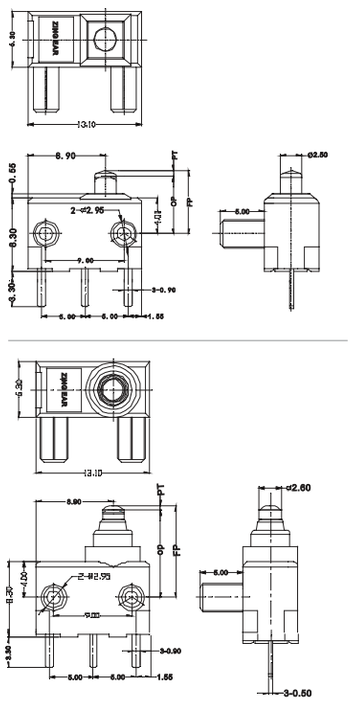
G3	03	A	180	K	00	A	20	A	E	A	280
Switch Type	Electrical Rating	Sub family	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

Posts Dimension

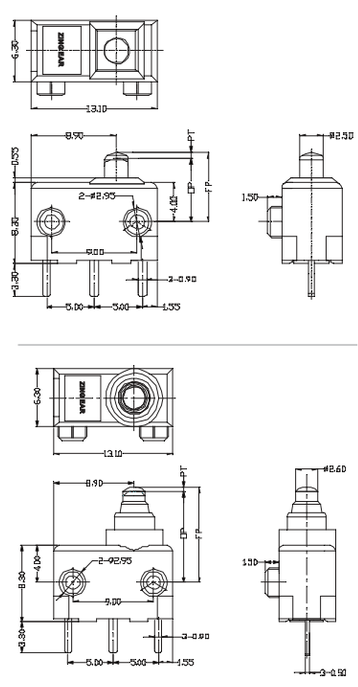
A



B ø 2.95 x 5.0 mm posts



C ¢ 2.95 x 1.5 mm posts



AWG Type (for Wire type only)

No molded lead wires

- **E** 20#
- **F** 22#
- **G** 24#
- **...** Other

AWG Number (for Wire type only)

No molded lead wires

- **A** UL1007
- **F** AVSS
- **L** FLRY-A
- **...** Other

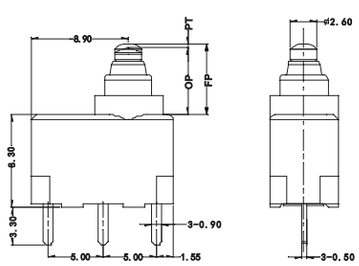
Wires lenght

300 mm lenght standard lead wires

- **280** 280 mm length
- **...** Other

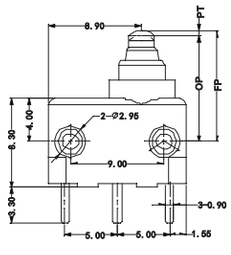
Dimensions and Operating Characteristics

G303A-18P00A21A



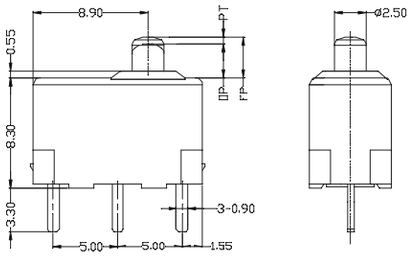
G3	03	A	180	K	00	A	20	A	E	A	280
Switch Type	Electrical Rating	Sub family	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

G303A-18P00423C



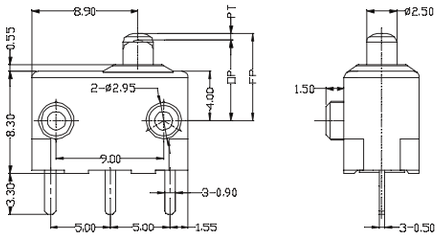
OF	RF	PT	OT	DT	FP	OP
-180	180	20	1.5	0.7	0.4	10.35	9.4±0.3

G303B-130P00A24A



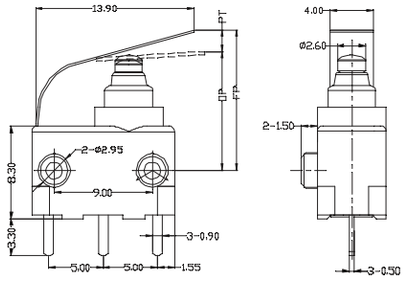
OF	RF	PT	OT	DT	FP	OP
-130	130	8	1.5	0.7	0.4	3.3	2.2±0.3

G303B-130P00A26C



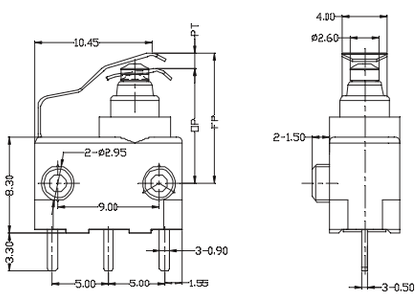
OF	RF	PT	OT	DT	FP	OP
-130	130	8	1.5	0.7	0.4	7.3	6.2±0.3

G303A-180P03A23C



OF	RF	PT	OT	DT	FP	OP
-180	250	50	5.5	0.7	1.1	14	10.7±1.5

G303A-180P38A23C



OF	RF	PT	OT	DT	FP	OP
-180	250	50	2	0.7	1.1	12	9.9±1.2

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G5 Series

Basic Micro Switch

G5	T	16	C	Z
Switch Type	**Temperature grade**	**Electrical Rating**	**Terminal Type**	**Circuit Code**
G5 Series Micro-Switch	**S** **25T85** (for "05" rating only)	**05** **ENEC/CQC:** **0.1A48VDC** **0.1A 125/250VAC** **5(2.S)A 125/250VAC,5E4,u** **UL/CUL:** **0.1A48VDC** **0.1A 125/250VAC** **5A 1/10HP 125/250VAC** "S" Temperature grade only. Only apply to C, C1, C2, H, E1, E2, D, D1, D2, S, S1, S2, F, F1)	**C C1 C2** 6.30x0.8mm 0.250"x0.032" Quick Connect Terminal	**Z** SPDT
			D D1 D2 4.80x0.8mm 0.187"x0.032" Quick Connect Terminal	
	T **25T125**	**08** **ENEC/CQC** **8(10)A 250VAC,5E4,25T125** **UL/CUL** **10.1A1/2HP 250VAC** Above only for"B" temperature grade and switch of contact gap>3mm) and only with C2 and D2 terminals; "300"~"500" OF only	**E E1 E2** 4. 70x0. 5mm 0.187"x0.020" Quick Connect Terminal	**P** SPST - NO
			L L1 L2 Left Angled PCB Terminals	
	H **25T150**	**10** **UL/CUL:** **1A 30VDC** **10A 1/2HP 125/250VAC** (Above only for"H" temperature grade) **UL/CUL:** **11A 1/3HP 125/250VAC** **0.5A 125VDC 0.25A 250VDC** **4A 125VAC L** **ENEC/CQC** **10(3)A 125/250VAC,0.5A 125VDC 0.25A 250VDC** **25T125 µ 5E4** (Above only for "T" temperature grade) C1, C2, E, E1, E2, D, D1, D2, F, F1 Terminal only. ---------- **10(4)A 250V AC** **25T85 µ 5E4** **IP64** Only for G5F "IP64" waterproof grade	**R R1 R2** Right Angled PCB Terminals	**C** SPST - NC
			S S1 S2 Solder Terminals	
	B **25T125** Only for "08" rating and contact gap>3mm		**T T1 T2** ScrewTerminals	
			X X1 X2 Special Connect	
	F **25T85** **IEC IP64** Only for rating "10"		**H H1 H2** Rast - 5	
			N N1 N2 Rast - 7	
		16 **ENEC/CQC:** **16(4)A 250VAC µ 5E4** **UL/CUL:** **16A 1/2HP** **125/250VAC**	**P P1 P2** PCB	
			J 6.30x0.80mm 0.250"x0.032" Quick connect	
		22 **ENEC** **16(13)A 250VAC µ 5E4** **22(8)A 250VAC µ 1E4** **CQC** **22(8)A 250VAC µ 1E4** **UL/CUL** **22A HP** **125/250VAC**	Note: Other available lever include: 08#, 09#, 23#, 24#, 32#, 45#, 46#...	
		26 **ENEC/CQC:** **26(10)A 250VAC, 0.02A 250VAC, 25E3 µ**		

Note: Letters for Basic Case/ Cover only type

200	A	01	B	K	280
Max Operating Force at Pin Plunger	**Lever Position**	**Lever Type**	**Housing Color**	**Mounting Holes**	**Special Designator**
015 **15gf** Note: Only apply to G5S05, G5W11 (Rating1) series.	No lever Pin Plunger	No lever Pin Plunger	Grey	Metric ø 3.1 mm	Here means a special designator letter. Refer to products specification for detailed differences.
025 **25gf** Note: Only apply to G5S05, G5W11 (Rating1) series.	A Far From Pin Plunger	01 Short Straight Lever	B Black	K ø 2.9 mm	H Rast-5 250# terminal
050 **50gf** **0.49N** Note: Only apply to G5S05, G5W11 (Rating1 & Rating 2) series.	B Close to Pin Plunger	02 Std. Straight Lever	M 750 °C Glow Wire 750 °C	U Alloy base with inner mounting hole Only for G5D Door Switch	N Rast-7 250# terminal
100 **100gf** **0.98N** Note: 16A and 22A Minimum OFI s 100gf.	F Push Rod G5D Door switch only	03 Long Straight Lever		V Alloy base with outer mounting hole Only for G5D Door Switch	P Straight PCB Terminal
200 **200gf** **1.96N** Note: G5S05, G5T10, G5W11 Series 200gf/with maximum OF is 200gf	J Screw Push Rod G5D Door switch only	04 Simulated Roller Lever		W Alloy base with two switches Only for G5D Door Switch	A Contact gold plated
300 **300gf** **2.94N** Note: Not apply to G5S05, G5T10, G5W11 Series.		05 Roller Lever			
400 **400gf** **3.92N** Note: Not apply to G5S05, G5T10, G5W11 Series.		06 Long Roller Lever			
500 **500gf** **4.90N** "B" Temperature grade only		... ...			
1800 **1800gf** **17.64N** "G5D Door switch" only		99 Special Lever			

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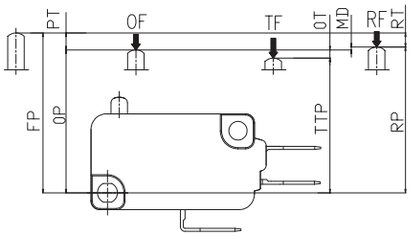
G5	T	16	C	Z	200	A	01	B	K	280
Switch Type	Temperature Grade	Electrical Rating	Terminal Type	Circuit Code	Max Operating Force at Pin Plunger	Lever Position	Lever Type	Housing Color	Mounting Holes	Special Designator

G5 Series

Basic Micro Switch



Features

- Tight Configuration,Small Contaci Gap,Snap Action, High Sensitivity and Small Operating Travel
- Long Life,High Reliability
- Global Safety Approvals
- Variety of Terminals
- Wide Range Operating Force(7gf~600gf)
- Wide Range Temperature Grade(-40"C~+ 150°C) ,200"C Optional
- With Optional PTI Grade(175v,250v,600v)
- Variety of Levers
- Widely Used in Home e Appliances, Electronic Equipments, Automatic Machines,Communication Equipments, Auto Electronics, Apparatus and Instrument,Power Tool etc

Applications

- Home Appliances
- Electronic Equipments
- Automatic Equipments
- Communication Equipments
- Auto Electronics
- Apparatus and Instruments
- Power Tools

Parameters

Operating Speed		0.1 mm-1 m/s (Related with actuator forms)
Operating Frequency		Mechanical 60 cycles/min; Electrical 15 cycles/min.
Insulation Resistance		≥ 1 00M Q (500VDC)
Contact Resistance		≤ 100m Q (Initial value)
Voltage Resistance	**Between each terminals of the same polarity**	AC1 000V,50/60HZ, 1 min.
	Between current carrying metal part and ground and between each terminal and non-current carrying metal parts	AC1500V, 50/60HZ, 1 min.
Vibration Resistance		10-55HZ, 1.5mm Double amplitude
Shock Resistance		Destruction: OF> 1.0N: 1 000m/s² (approx.100G)max. OF≤ 1.0N: 400m/s² (approx.40G)max. Destruction: OF>1.0N: 200m/s² (approx.20G)max. OF≤ 1.0N: 1 00m/s² (approx.10G)max.
Service Life		Mechanical ≥ 10,000,000 cycles or 1,000,000 cycles or 50,000 cycles
		Electrical ≥ 50,000 cycles or 100,000 cycles Depends on Part No.
Unit Net Weight		6.2g Approx. 6.2g (No lever)

G5	T	16	C	Z	200	A	01	B	K	280
Switch Type	Temperature Grade	Electrical Rating	Terminal Type	Circuit Code	Max Operating Force at Pin Plunger	Lever Position	Lever Type	Housing Color	Mounting Holes	Special Designator

Temperature grade

S **25T85** (for "05" rating only)

T **25T125**

H **25T150**

B **25T125** Only for "08" rating and contact gap>3mm

F **25T85, IEC IP64** Only for rating "10"

Electrical Rating

05

ENEC/CQC:
0.1A48VDC
0.1A 125/250VAC
5(2.S)A 125/250VAC,5E4,u

UL/CUL:
0.1A48VDC
0.1A 125/250VAC
5A 1/10HP 125/250VAC

"S" Temperature grade only. Only apply to C, C1, C2, H, E1, E2, D, D1, D2, S, S1, S2, F, F1)

08

ENEC/CQC
8(10)A 250VAC,5E4,25T125
UL/CUL
10.1A1/2HP 250VAC

Above only for"B" temperature grade and switch of contact gap>3mm) and only with C2 and D2 terminals; "300"~"500" OF only

10

UL/CUL:
1A 30VDC
10A 1/2HP 125/250VAC
(Above only for"H" temperature grade)

UL/CUL:
11A 1/3HP 125/250VAC
0.5A 125VDC 0.25A 250VDC
4A 125VAC L
ENEC/CQC
10(3)A 125/250VAC,0.5A 125VDC 0.25A 250VDC
25T125 μ 5E4
(Above only for "T" temperature grade) C1, C2, E, E1, E2, D, D1, D2, F, F1 Terminal only.

10(4)A 250V AC
25T85 μ 5E4
IP64
Only for G5F "IP64" waterproof grade

16

ENEC/CQC:
16(4)A 250VAC μ 5E4
UL/CUL:
16A 1/2HP
125/250VAC

22

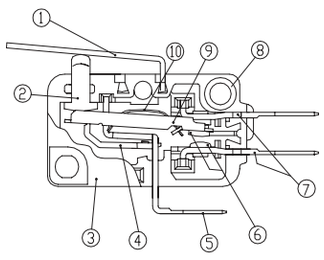
ENEC
16(13)A 250VAC μ 5E4
22(8)A 250VAC μ 1E4
CQC
22(8)A 250VAC μ 1 E4
UL/CUL
22A HP
125/250VAC

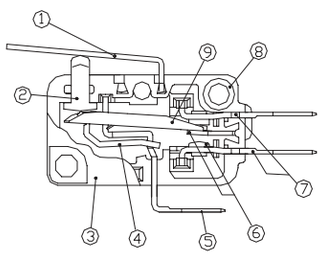
26

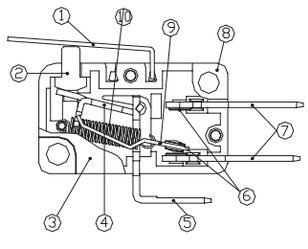
ENEC/CQC:
26(10)A 250VAC, 0.02A 250VAC, 25E3 μ

Inner Construction

General Type	G5S05/G5T10	Contact Gap > 3mm





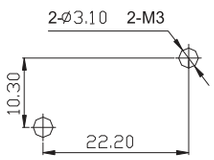


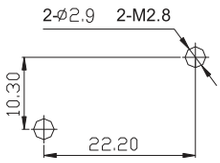
1. Lever
2. Plunger
3. cover
4. Internal Lever
5. Common Terminal
6. Contacts
7. NC/NO Terminals
8. Case
9. Movable Plate
10. Spring

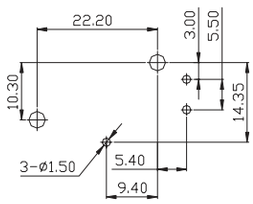
G5	T	16	C	Z	200	A	01	B	K	280
Switch Type	Temperature Grade	Electrical Rating	Terminal Type	Circuit Code	Max Operating Force at Pin Plunger	Lever Position	Lever Type	Housing Color	Mounting Holes	Special Designator

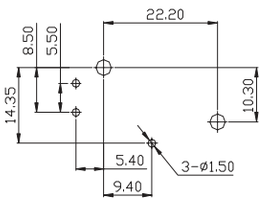
Mounting Hole Dimensions

Basic Type	K Type	Left Angled PCB Terminal	Left Angled PCB Terminal



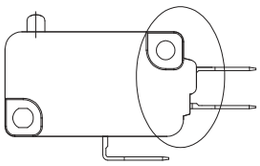


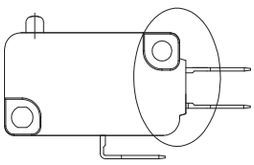


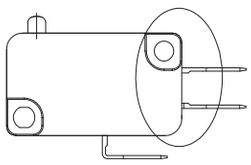


Housing Outline Characteristics

Basic Type: C, D, E, L, R... Optional Terminal	Flat Type: C1, D1, E1, L1, R1... Optional Terminal	Fully Flat Type: C2, D2, E2, L2, R2... Optional Terminal

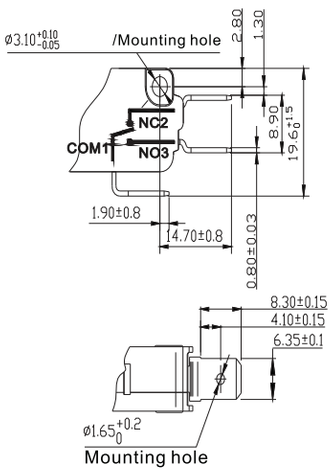




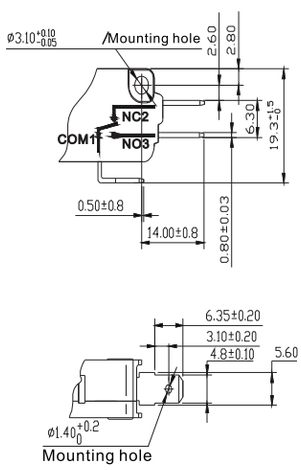


Terminal for Basic Type Housing

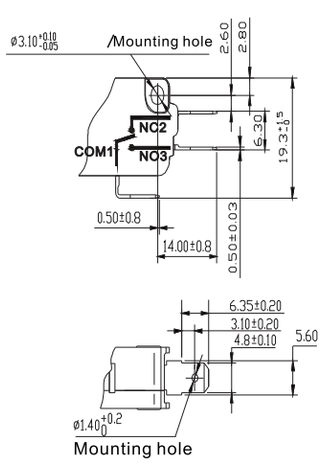
C Basic Type Housing with 250# Quick Connect Terminals, T=0.8(C)



D Basic Type Housing with 187# Quick Connect Terminals, T=0.8(D)



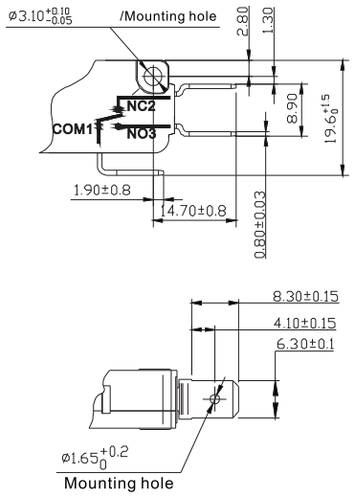
E Basic Type Housing with 187# Quick Connect Terminals, T=0.5(E)



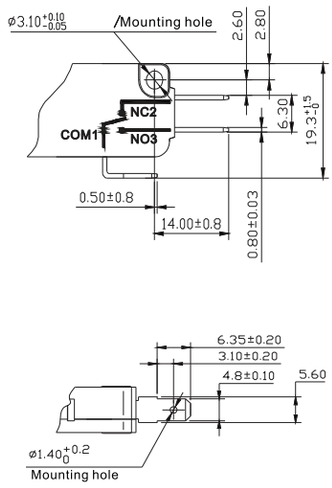
G5	T	16	C	Z	200	A	01	B	K	280
Switch Type	Temperature Grade	Electrical Rating	Terminal Type	Circuit Code	Max Operating Force at Pin Plunger	Lever Position	Lever Type	Housing Color	Mounting Holes	Special Designator

Terminal for Flat Type Housing

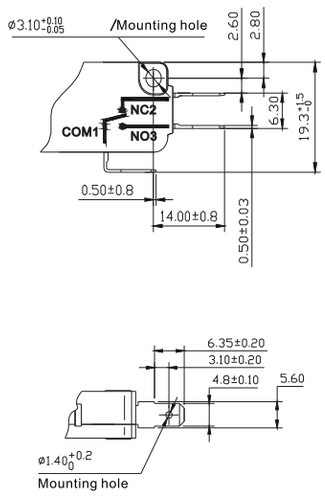
C1 Flat Type Housing with 250# Quick Connect Terminals, T=0.8(C1)



D1 Flat Type Housing with 187# Quick Connect Terminals, T=0.8(D1)

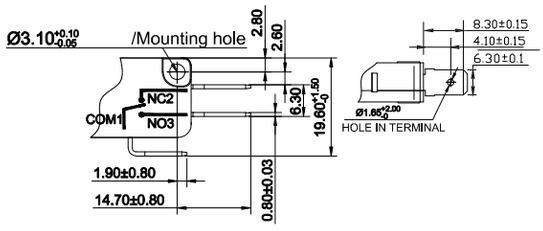


E1 Flat Type Housing with 187# Quick Connect Terminals, T=0.5(E1)

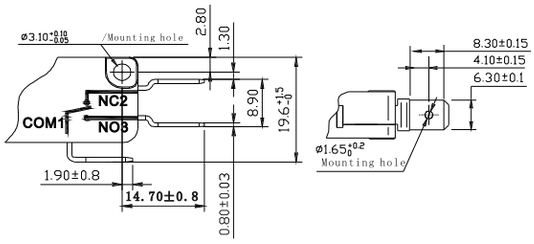


Terminal for Flat Type Housing

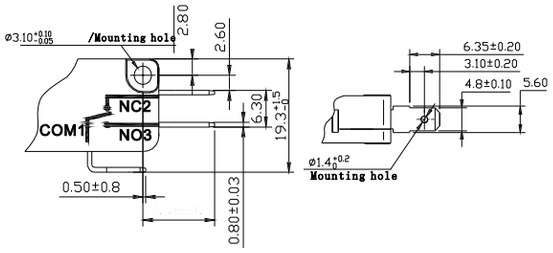
B2 Fully Flat Type 250# Quick Connect Terminals, T=0.8



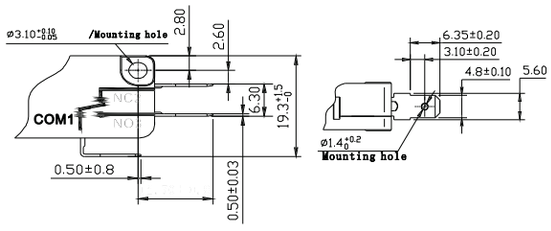
C2 Fully Flat Type Housing with 250# Quick Connect Terminals, T=0.8(C2)



D2 Fully Flat Type Housing with 187# Quick Connect Terminals, T=0.8(D2)



E2 Fully Flat Type Housing with 187# Quick Connect Terminals, T=0.5(E2)



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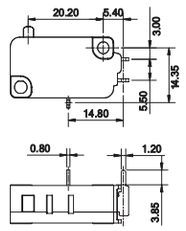
THE WORLD IN A CLICK

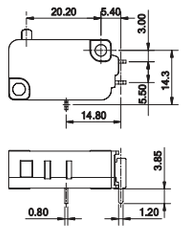
G5	T	16	C	Z	200	A	01	B	K	280
Switch Type	Temperature Grade	Electrical Rating	Terminal Type	Circuit Code	Max Operating Force at Pin Plunger	Lever Position	Lever Type	Housing Color	Mounting Holes	Special Designator

Terminal for Flat Type Housing

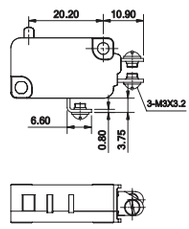
L Left Angled PCB Terminal



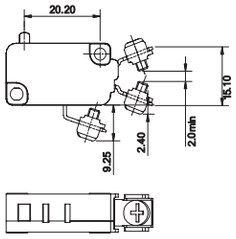
R Right Angled PCB Terminal



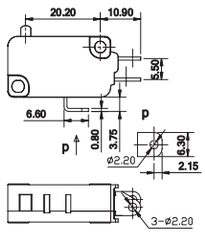
T Screw Terminal



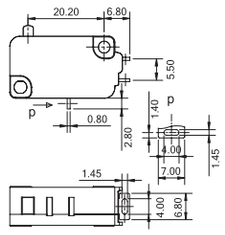
F Slant Screw Terminal



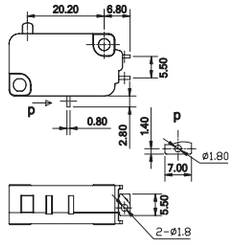
S Standard Solder Terminal



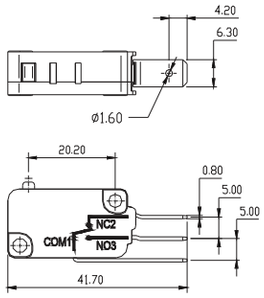
K Rectangle Hole Solder Terminal



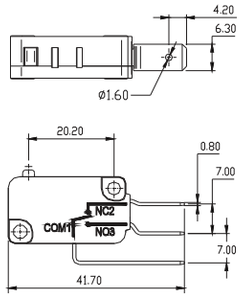
M Short Solder Terminal



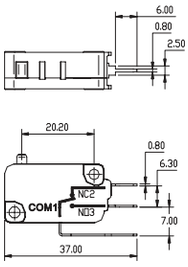
-H RAST-5



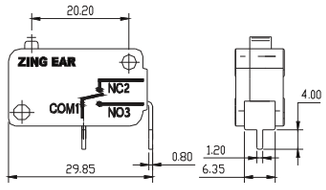
-N RAST-7



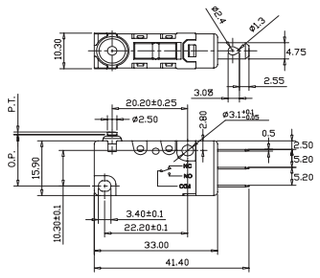
P Straight PCB Terminal



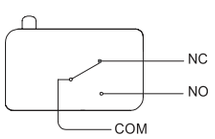
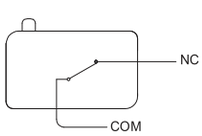
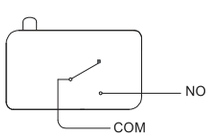
P Type Bended PCB Terminal



IP67 Water Proof and Dust Proof (Exclude Terminals)



Circuit Configuration

Common Terminal Type	**Z** SPDT	**C** SPST-NC	**P** SPST-NO
Common Terminal at bottom			

G5	T	16	C	Z	200	A	01	B	K	280
Switch Type	Temperature Grade	Electrical Rating	Terminal Type	Circuit Code	Max Operating Force at Pin Plunger	Lever Position	Lever Type	Housing Color	Mounting Holes	Special Designator

Max Operating Force at Pin Plunger

015 **15gf**
Note: Only apply to G5S05, G5W11 (Rating1) series.

025 **25gf**
Note: Only apply to G5S05, G5W11 (Rating1) series.

050 **50gf**
0.49N
Note: Only apply to G5S05, G5W11 (Rating1 & Rating 2) series.

100 **100gf**
0.98N
Note: 16A and 22A Minimum OFI s 100gf.

200 **200gf**
1.96N
Note: G5S05, G5T10, G5W11 Series
200gf/with maximum OF is 200gf

300 **300gf**
2.94N
Note: Not apply to G5S05, G5T10, G5W11 Series.

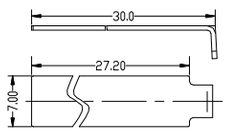
400 **400gf**
3.92N
Note: Not apply to G5S05, G5T10, G5W11 Series.

500 **500gf**
4.90N
"B" Temperature grade only

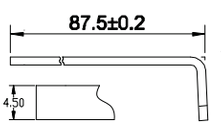
1800 **1800gf**
17.64N
"G5D Door switch" only

Other Levers

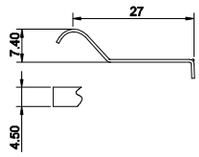
08 Lever 08#



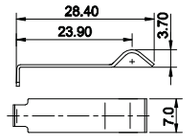
09 Lever 09#



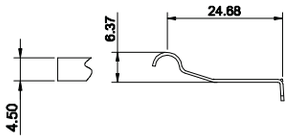
137 Lever 137#



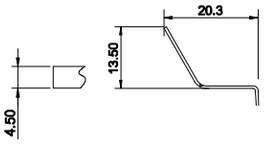
146 Lever 146#



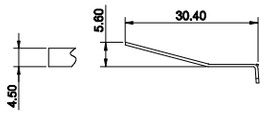
152 Lever 152#



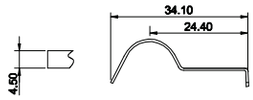
153 Lever 153#



165 Lever 165#



182 Lever 182#



Lever Position

No lever
Pin Plunger

A Far From Pin Plunger

B Close to Pin Plunger

F Push Rod
G5D Door switch only

J Screw Push Rod
G5D Door switch only

Housing Color

Grey

B Black

M 750 °C
Glow Wire 750 °C

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G5	T	16	C	Z	200	A	01	B	K	280
Switch Type	Temperature Grade	Electrical Rating	Terminal Type	Circuit Code	Max Operating Force at Pin Plunger	Lever Position	Lever Type	Housing Color	Mounting Holes	Special Designator

Lever Position

Metric ø 3.1 mm

K ø 2.9 mm

U Alloy base with inner mounting hole
Only for G5D Door Switch

V Alloy base with outer mounting hole
Only for G5D Door Switch

W Alloy base with two switches
Only for G5D Door Switch

Special Designator

Here means a special designator letter. Refer to products specification for detailed differences.

H Rast-5 250# terminal

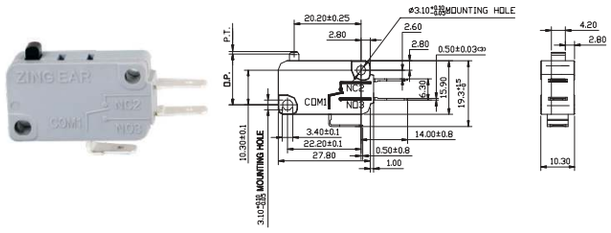
N Rast-7 250# terminal

P Straight PCB Terminal

A Contact gold plated

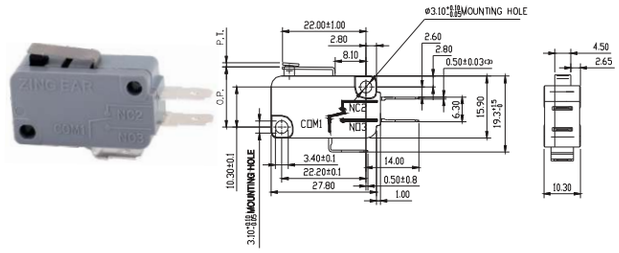
Dimensions and Operating Characteristics

Pin Plunger



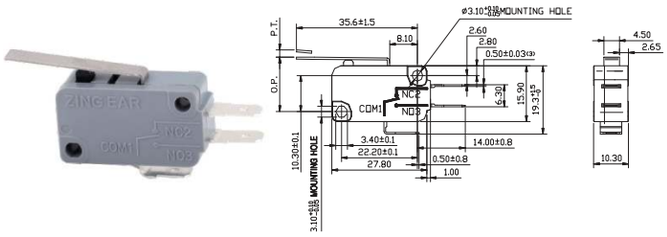
Part No.	Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5□□□-E1Z015	0.15	15	0.03	3	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z025	0.25	25	0.05	5	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z050	0.49	50	0.10	10	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z100	0.98	100	0.25	25	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z200	1.96	200	0.49	50	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z300	2.94	300	0.74	75	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z400	3.92	400	0.98	100	1.6	0.8	0.4	14.7±0.5

01 Short Straight Lever



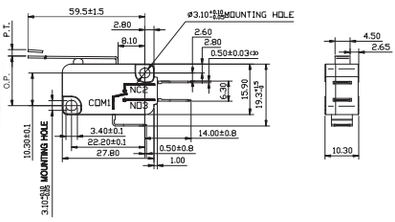
Part No.	Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5□□□-E1Z015A01	0.15	15	0.03	3	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z025A01	0.25	25	0.05	5	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z050A01	0.49	50	0.10	10	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z100A01	0.98	100	0.25	25	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z200A01	1.96	200	0.49	50	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z300A01	2.94	300	0.74	75	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z400A01	3.92	400	0.98	100	1.6	0.8	0.4	15.3±0.5

02 Standard Straight Lever



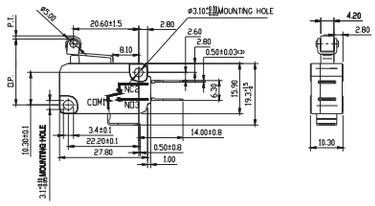
Part No.	Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5□□□-E1Z015A02	0.15	15	0.03	2	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z025A02	0.25	25	0.05	2	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z050A02	0.49	50	0.10	5	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z100A02	0.98	100	0.25	10	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z200A02	1.96	200	0.49	20	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z300A02	2.94	300	0.74	30	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z400A02	3.92	400	0.98	40	3.2	1.3	1.2	15.3±1.5

03 Long Straight Lever



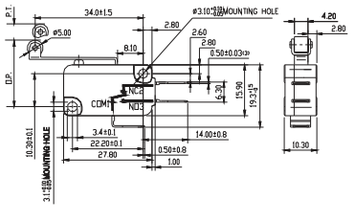
Part No.	Parameters							
	OF Max.		RF Min.		PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
	(N)	(gf)	(N)	(gf)				
G5□□□-E1Z015A03	0.07	7	0.02	2	6.4	2.6	2.4	15.3±3
G5□□□-E1Z025A03	0.10	10	0.02	2	6.4	2.6	2.4	15.3±3
G5□□□-E1Z050A03	0.15	15	0.02	2	6.4	2.6	2.4	15.3±3
G5□□□-E1Z100A03	0.29	30	0.05	5	6.4	2.6	2.4	15.3±3
G5□□□-E1Z200A03	0.59	60	0.10	10	6.4	2.6	2.4	15.3±3
G5□□□-E1Z300A03	0.88	90	0.15	15	6.4	2.6	2.4	15.3±3
G5□□□-E1Z400A03	1.18	120	0.20	20	6.4	2.6	2.4	15.3±3

05 Short Roller Lever



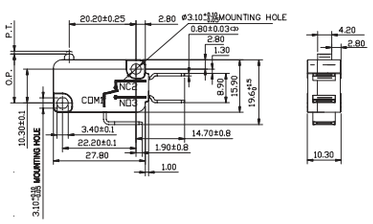
Part No.	Parameters							
	OF Max.		RF Min.		PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
	(N)	(gf)	(N)	(gf)				
G5□□□-E1Z015A05	0.15	15	0.03	3	1.6	0.8	0.4	20.6±0.8
G5□□□-E1Z025A05	0.30	30	0.05	5	1.6	0.8	0.4	20.6±0.8
G5□□□-E1Z050A05	0.59	60	0.10	10	1.6	0.8	0.4	20.6±0.8
G5□□□-E1Z100A05	1.18	120	0.20	20	1.6	0.8	0.4	20.6±0.8
G5□□□-E1Z200A05	2.35	240	0.39	40	1.6	0.8	0.4	20.6±0.8
G5□□□-E1Z300A05	3.43	350	0.59	60	1.6	0.8	0.4	20.6±0.8
G5□□□-E1Z400A05	4.60	470	0.78	80	1.6	0.8	0.4	20.6±0.8

06 Long Roller Lever



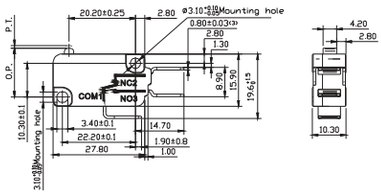
Part No.	Parameters							
	OF Max.		RF Min.		PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
	(N)	(gf)	(N)	(gf)				
G5□□□-E1Z015A06	0.10	10	0.02	2	3.2	1.3	1.2	20.6±1.6
G5□□□-E1Z025A06	0.15	15	0.02	2	3.2	1.3	1.2	20.6±1.6
G5□□□-E1Z050A06	0.29	30	0.05	5	3.2	1.3	1.2	20.6±1.6
G5□□□-E1Z100A06	0.59	60	0.10	10	3.2	1.3	1.2	20.6±1.6
G5□□□-E1Z200A06	1.18	120	0.20	20	3.2	1.3	1.2	20.6±1.6
G5□□□-E1Z300A06	1.77	180	0.29	30	3.2	1.3	1.2	20.6±1.6
G5□□□-E1Z400A06	2.35	240	0.39	40	3.2	1.3	1.2	20.6±1.6

Pin Plunger, 250# Terminals



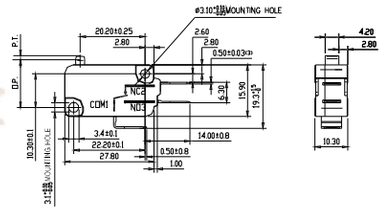
Part No.	Parameters							
	OF Max.		RF Min.		PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
	(N)	(gf)	(N)	(gf)				
G5□□□-C1Z015	0.15	15	0.03	3	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z025	0.25	25	0.05	5	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z050	0.49	50	0.10	10	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z100	0.98	100	0.25	25	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z200	1.96	200	0.49	50	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z300	2.94	300	0.74	75	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z400	3.92	400	0.98	100	1.6	0.8	0.4	14.7±0.5

Pin Plunger Basic Type Housing, 250# Terminals



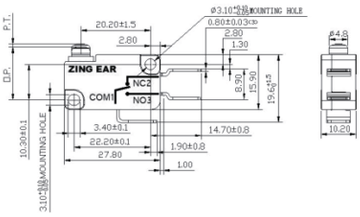
Part No.	Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5□□□-CZ015	0.15	15	0.03	3	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ025	0.25	25	0.05	5	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ050	0.49	50	0.10	10	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ100	0.98	100	0.25	25	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ200	1.96	200	0.49	50	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ300	2.94	300	0.74	75	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ400	3.92	400	0.98	100	1.6	0.8	0.4	14.7±0.5

Pin Plunger Basic Type Housing, 187# Terminals



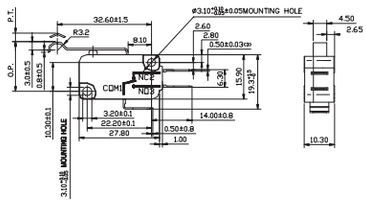
Part No.	Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5□□□-EZ015	0.15	15	0.03	3	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ025	0.25	25	0.05	5	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ050	0.49	50	0.10	10	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ100	0.98	100	0.25	25	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ200	1.96	200	0.49	50	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ300	2.94	300	0.74	75	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ400	3.92	400	0.98	100	1.6	0.8	0.4	14.7±0.5

IP64 Waterproof switch



Part No.	Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5F**-C1Z300	2.94	300	0.74	75	1.6	0.8	0.4	14.7±0.5

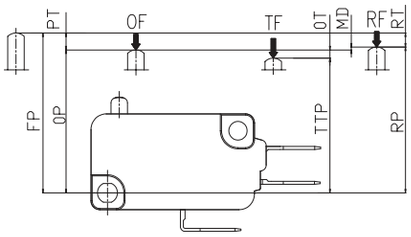
04 Simulated Roller Lever



Part No.	Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5□□□-E1Z015A04	0.10	10	0.02	2	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z025A04	0.15	15	0.02	2	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z050A04	0.29	30	0.02	2	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z100A04	0.59	60	0.10	10	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z200A04	1.18	120	0.20	20	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z300A04	1.77	180	0.30	30	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z400A04	2.35	240	0.39	40	3.2	1.3	1.2	18.3±1.5

G5W11 Series

Waterproof Micro Switch



Features

- Water Proof and Dust Proof
- Tight Structure, Small Contact Gap Snap Action, High Sensitivity
- Long Life,high Precision and Reliability
- Widely used in Auto, Agricultural Equipment, Applications,Office Equipment etc
- Max Approved Current at ENEC/UL is 10A

Applications

- Home Appliances
- Electronic Devices
- Automatic Equipments
- Auto Electronics
- Agricultural Equipments
- Office Equipments

Parameters

Rating	W1	ENEC 0.1A 48VDC, 0.1A 125/250VAC,40T85,5E4,μ UL 0.1A 48VDC,0.1A 125/250VAC,T85
	W2	ENEC- 5A 125/250VAC,5A, 30VDC,40T85,5E4, μ UL: 5A 125/250VAC,5A 30VDC T85
	W3	ENEC 10(2)A 125/250VAC, 0.5A 125VDC, 0.25A 250VDC,40T85,u,2E4 UL 10.1A 1/10HP 125/250VAC,0.5A 125VDC, 0.25A 250VDC, T85
Operating Frequency	Electrical	10-30 times/min
	Mechanical	60 times/min
Contact Resistance	With Terminal Type	50m Ω Max
	With Wire Type	100m Ω Max (Depends on the length of the wire)
Insulation Resistance		at 500VDC, 100M Ω Min.
Dielectric Strength	Between terminals	AC 1000V 50-60Hz 1 min
	Between terminals and housing	AC 1500V 50-60Hz 1 min
Storage Temperature		-40°C ~ +85° C
Storage Humidity		85% RH Max
Protection Grade	With Terminal Type	IEC IP67 (exclude terminal)
	With Wire Type	IEC IP67
Electric-shock safeguard grade		Class II
PTI		250
Life	E-life	2E4-10E4 cycles(depends on P/Ns)
	M-life	over 500,000 cycles or 1,000,000cycles(60cycles/min)
Unit Net Weight		Approx.7g (with terminal type and without lever)

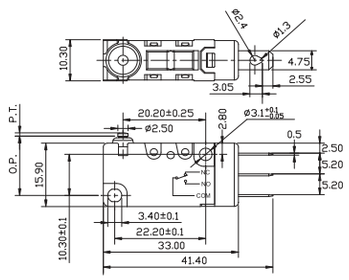
G5	W	11	C	Z	200	A	01	XX
Switch Type	**Temperature grade**	**Electrical Rating**	**Terminal Style**	**Circuit Code**	**Max Operating Force at Pin Plunger**	**Lever Position**	**Lever Type**	**Special Designator**
	W 40T85 IEC IP67	ENEC/CQC: Rating 1: 0.1 A 48 VDC, 0.1 A 125/250VAC, 40T85, 5E4, μ Rating 2: 5 A 125/250VAC 5 A 30 VDC, 40T85, 5E4, μ Rating 3: 10(2) A 125/250VAC; 0.5 A 125 VDC; 0.25A 250 VDC, 40T85, μ, 2E4 UL/CUL: Rating 1: 0.1 A 48 VDC 0.1 A 125/250VAC, T85 Rating2: 5 A 125/250VAC, T85 Rating3: 10.1 A 1/10HP 125/250VAC, 0.5 A 125 VDC, 0.25A 250 VDC, T85	**E** 4.70x0.5 mm 0.187"x0.020" Quick Connect **W** For G5W11 series only	**Z** DSPDT **P** SPST-NO **C** SPST-NC	**015** 15gf **025** 25gf **050** 50gf **100** 100gf **200** 200gf	No Lever Pin Plunger **A** Far From Pin Plunger **B** Near Pin Plunger	No Lever Pin Plunger **01** Short Straight Lever **02** Std. Straight Lever **03** Straight Lever **04** Simulated Roller Lever **05** Roller Lever **06** Long Roller Lever **...** ... **99** Special Lever	**W1** Rating 1 (Note: standard wire: UL1015, 24#, 300mm) **W2** Rating 2 (Note: standard wire: UL1015, 20#, 300mm) **W3** Rating 3 (Note: standard wire: UL1015, 18#, 300mm) **...** Special

Description
GSW11 (rating 2). 50gf Min. Grade
GSW11 (rating 3)· 100gf Min. Grade

Dimensions and Operating Characteristics

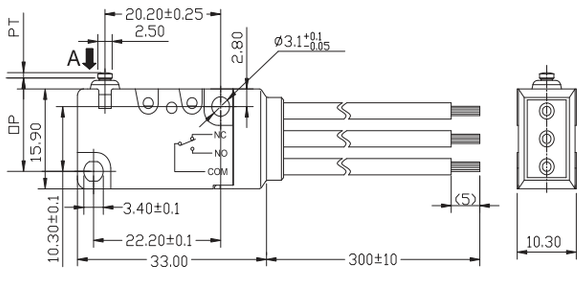
G5W11-E□□-W□

Part No.	OF Max. (N)	OF Max. (gf)	RF Min. (N)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G5W11-EZ015-W□	0.30	30	0.05	5	1.6	0.8	0.4	14.7±0.5
G5W11-EZ025-W□	0.40	40	0.10	10	1.6	0.8	0.4	14.7±0.5
G5W11-EZ050-W□	0.64	65	0.15	15	1.6	0.8	0.4	14.7±0.5
G5W11-EZ100-W□	1.08	110	0.35	35	1.6	0.8	0.4	14.7±0.5
G5W11-EZ200-W□	2.06	210	0.6	60	1.6	0.8	0.4	14.7±0.5



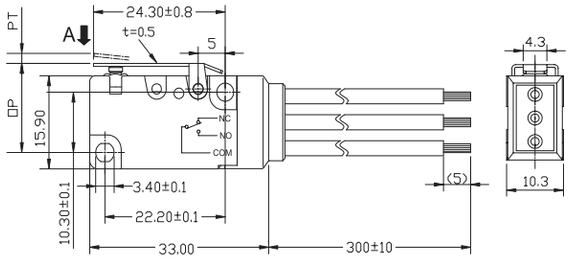
G5W11-W□□-W□

Part No.	OF Max. (N)	OF Max. (gf)	RF Min. (N)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G5W11-WZ015-W□	0.30	30	0.05	5	1.6	0.8	0.4	14.7±0.5
G5W11-WZ025-W□	0.40	40	0.10	10	1.6	0.8	0.4	14.7±0.5
G5W11-WZ050-W□	0.64	65	0.15	15	1.6	0.8	0.4	14.7±0.5
G5W11-WZ100-W□	1.08	110	0.35	35	1.6	0.8	0.4	14.7±0.5
G5W11-WZ200-W□	2.06	210	0.6	60	1.6	0.8	0.4	14.7±0.5



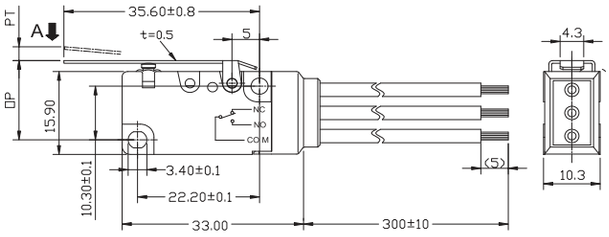
G5W11-W□□A01-W□

Part No.	OF Max. (N)	OF Max. (gf)	RF Min. (N)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G5W11-WZ015A01-W□	0.30	30	0.05	5	1.6	0.8	0.4	15.3±0.5
G5W11-WZ025A01-W□	0.40	40	0.10	10	1.6	0.8	0.4	15.3±0.5
G5W11-WZ050A01-W□	0.64	65	0.15	15	1.6	0.8	0.4	15.3±0.5
G5W11-WZ100A01-W□	1.08	110	0.35	35	1.6	0.8	0.4	15.3±0.5
G5W11-WZ200A01-W□	2.06	210	0.59	60	1.6	0.8	0.4	15.3±0.5



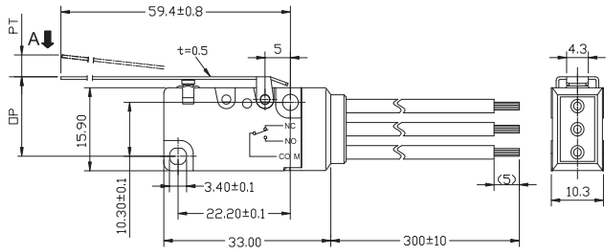
G5W11-W□□A02-W□

Part No.	OF Max. (N)	OF Max. (gf)	RF Min. (N)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G5W11-WZ015A02-W□	0.20	20	0.05	5	3.2	1.3	1.2	15.3±1.5
G5W11-WZ025A02-W□	0.25	25	0.08	8	3.2	1.3	1.2	15.3±1.5
G5W11-WZ050A02-W□	0.40	40	0.15	15	3.2	1.3	1.2	15.3±1.5
G5W11-WZ100A02-W□	0.64	65	0.25	25	3.2	1.3	1.2	15.3±1.5
G5W11-WZ200A02-W□	1.27	130	0.35	35	3.2	1.3	1.2	15.3±1.5



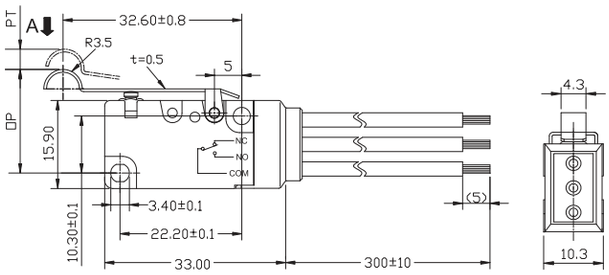
G5W11-W□□A03-W□

Part No.	OF Max. (N)	OF Max. (gf)	RF Min. (N)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G5W11-WZ015A03-W□	0.10	10	0.03	3	6.4	2.6	2.4	15.3±3
G5W11-WZ025A03-W□	0.15	15	0.05	5	6.4	2.6	2.4	15.3±3
G5W11-WZ050A03-W□	0.20	20	0.08	8	6.4	2.6	2.4	15.3±3
G5W11-WZ100A03-W□	0.35	35	0.10	10	6.4	2.6	2.4	15.3±3
G5W11-WZ200A03-W□	0.64	65	0.15	15	6.4	2.6	2.4	15.3±3



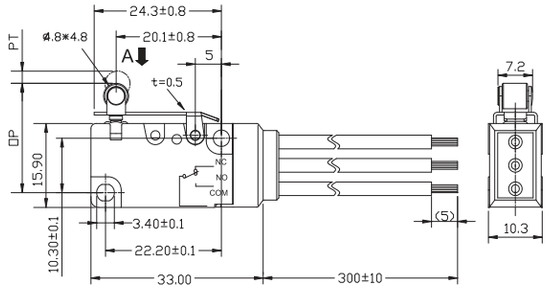
G5W11-W□□A04-W□

Part No.	OF Max. (N)	OF Max. (gf)	RF Min. (N)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G5W11-WZ015A04-W□	0.20	20	0.05	5	3.2	1.3	1.2	18.5±1.5
G5W11-WZ025A04-W□	0.25	25	0.08	8	3.2	1.3	1.2	18.5±1.5
G5W11-WZ050A04-W□	0.40	40	0.15	15	3.2	1.3	1.2	18.5±1.5
G5W11-WZ100A04-W□	0.64	65	0.25	25	3.2	1.3	1.2	18.5±1.5
G5W11-WZ200A04-W□	1.27	130	0.35	35	3.2	1.3	1.2	18.5±1.5



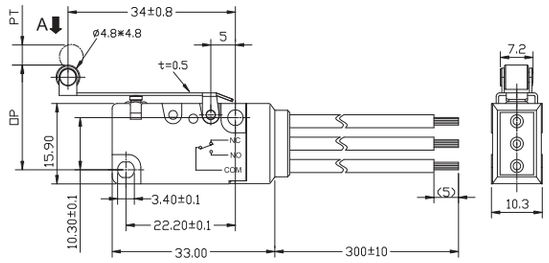
G5W11-W□□A05-W□

Part No.	OF Max. (N)	OF Max. (gf)	RF Min. (N)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G5W11-WZ015A05-W□	0.30	30	0.05	5	3.2	0.8	0.4	20.6±0.8
G5W11-WZ025A05-W□	0.40	40	0.10	10	3.2	0.8	0.4	20.6±0.8
G5W11-WZ050A05-W□	0.64	65	0.15	15	3.2	0.8	0.4	20.6±0.8
G5W11-WZ100A05-W□	1.18	120	0.35	35	3.2	0.8	0.4	20.6±0.8
G5W11-WZ200A05-W□	2.35	240	0.59	60	3.2	0.8	0.4	20.6±0.8



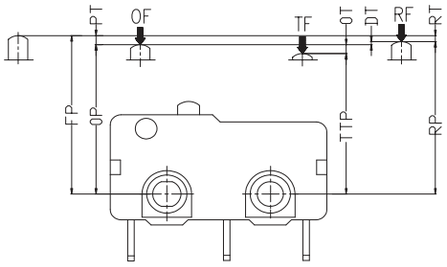
G5W11-W□□A06-W□

Part No.	OF Max. (N)	OF Max. (gf)	RF Min. (N)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G5W11-WZ015A06-W□	0.20	20	0.05	5	3.2	1.3	1.2	20.6±1.6
G5W11-WZ025A06-W□	0.25	25	0.08	8	3.2	1.3	1.2	20.6±1.6
G5W11-WZ050A06-W□	0.40	40	0.15	15	3.2	1.3	1.2	20.6±1.6
G5W11-WZ100A06-W□	0.64	65	0.25	25	3.2	1.3	1.2	20.6±1.6
G5W11-WZ200A06-W□	1.27	130	0.35	35	3.2	1.3	1.2	20.6±1.6



G6 Series

Miniature Micro Switch



Features

- Small Compact Size
- Global Safety Approvals
- Long Life and High Reliability
- Variety of Actuator and Terminals
- High Rating to 10(2)A, 1/4HP
- Customized Designs
- Widely used in Auto Control, Appliance Control, Industrial Control etc.

Applications

- Phone
- Air-Conditioner
- Computer
- Humidifier
- Alarm
- Timer
- Mixer&Meat Grinder
- Welding Machine
- Neon Phone
- Fax Machine
- Game Controller
- Pencil Sharpener
- Money Sorter
- Food Processor
- Electric Knife
- Toy Car
- Juice Extractor
- Lighting Equipment
- Electric Frying pan

Parameters

Rating	P1/P11/P12	ENEC 0.1A 125/250V 48VDC 5E4 UL: 0.1A 125/250VAC 48VDC Gold Plated Contact Optional
	05/051/052	ENEC 5A 125/250VAC 5(3)A 125/250VAC 5A 30VDC UL: 5A 1/8HP 125/250VAC
	10/101	ENEC 10(2)A 125/250VAC μ 25T125 UL: 10.1A 1/4HP 125/250VAC
	12	ENEC: 12 (6) A 125/250VAC μ 40T125 UL: 12A 125/250VAC Only with 350gf OF
Operating Frequency	Electrical	10-30 cycles/min.
	Mechanical	120 cycles/min.
Contact Resistance (Initiative)		100M Ω Max
Insulation Resistance (at 500VDC)		100M Ω Min.
Dielectric Strength		AC 1000V RMS (50-60Hz)
Storage Temperature		-25°C ~ +125° C
Storage Humidity		85% RH Max
Service Life	Electrical	1.000 - 50.000 cycles (Depend on part No.)
	Mechanical	1,000,000 cycles

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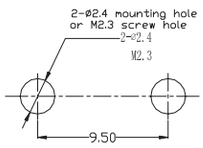
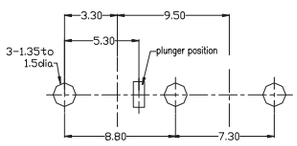
G6	05	150	S	00	A	A	XX
Switch Type	**Electrical Rating**	**Max Operating Force at Pin Plunger**	**Terminal Type**	**Lever Type**	**Circuit Code**	**Special Designator**	**Special Designator**
G6 Series Micro Switch	**P1** ENEC/CQC: 0.1A 125/250VAC 48VDC 5E4 μ 25T125 UL 0.1A 125/250VAC 48VDC Gold plated contact optional	**50** 50gf 0.49 N (Only for 0.1A rating)	**S** Solder Terminals	**00** No Lever Pin Plunger	**A** SPDT	General	Here means a special designator letter. Refer to Products Speciafication for detaild differences.
	05 ENEC/CQC: 5A 125/250VAC 30VDC 5E4 μ 25T125 UL 5A 1/8HP 125/250VAC 30VDC	**100** 100gf 0.98 N (Only for 0.1A and 5A rating)	**P** Straight PCB Terminals	**01** 16.7 mm Short Straight Lever 0.66"	**B** SPST-NC	**A** Gold Plated Contacts (Optional, only for G6P1)	
	10 ENEC/CQC: 10(2)A 125/250VAC μ 25T125 UL 10.1A 1/4HP 125/250VAC	**150** 150gf 1.49 N (Note: For G6P11, G6051, G610 1, Max. OF is 150gf)	**R** Right side PCB Terminals (Note: Only available for G6P1, G605, G610)	**02** 18.7 mm Standard Straight Lever 0.74"	**C** SPST-NO	**D** High DC Rating Special use	
	12 ENEC/CQC: 12(6)A 125/250VAC μ 25T125 UL 12A 125/250VAC	**250** 250gf 2.45 N (Note: Only available for G6P1, G605, G610)	**L** Right side PCB Terminals (Note: Only available for G6P1, G605, G610)	**03** Long Straight Lever 0.98"		**...** Other	
	P11 ENEC/CQC: 0.1A 125/250VAC 48VDC 5E4 μ 25T125 UL 0.1A 125/250VAC 48VDC Gold plated contact optional Spring plate type	**350** 350gf 3.43 N Mainly for G612	**D** 110# 2.80x0.6 mm quick connect Terminals 0.11"x0.023"	**04** 35.1 mm Long Straight Lever 1.39"			
	051 ENEC/CQC: 5A 125/250VAC 5E4 μ 25T125 UL 5A 1/8HP 125/250VAC Spring plate type	**F** Special OF	**E** 110# 2.80x0.5 mm quick connect Terminals 0.11"x0.023"	**05** 18.0 mm Std. Simulated Roller Lever 0.71"			
	101 ENEC/CQC: 10(2)A 125/250VAC μ 25T125 UL 10.1A 1/4HP 125/250VAC Note:Switch with"10"rating are only available with "150"0F Spring plate type		**...** Special Terminals	**06** 16.6 mm Roller Lever 0.65"			
	P12 ENEC/CQC: 0.1A 125/250VAC 48VDC 5E4 μ 25T85 UL 0.1A 125/250VAC 48VDC Gold plated contact optional Bakelite Spring plate type			**07** 17.9 mm Small Simulated Roller Lever1 0.71"			
	052 ENEC/CQC: 5A 125/250VAC 5E4 μ 25T85 UL 5A 1/8HP 125/250VAC Bakelite housing Spring plate type			**09** Plastic Roller Lever			
				... Other			

Mounting Hole Dimensions

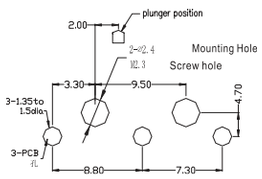
Solder and 110# Terminal



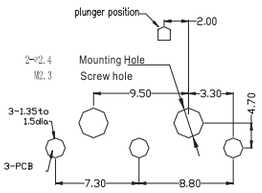
Straight PCB Terminal



Right Angled PCB Terminal

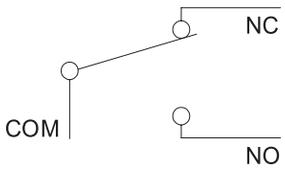


Left Angled PCB Terminal

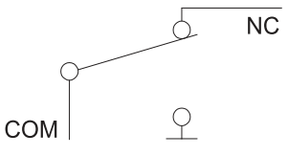


Circuit Configuration

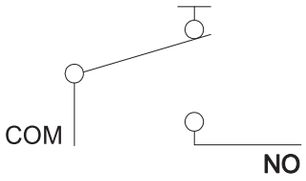
A SPDT



B SPST-NC

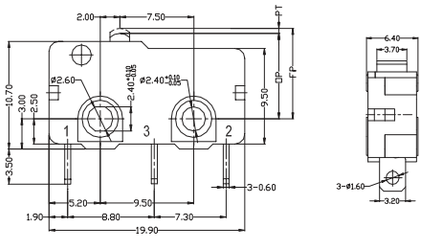


C SPST-NO

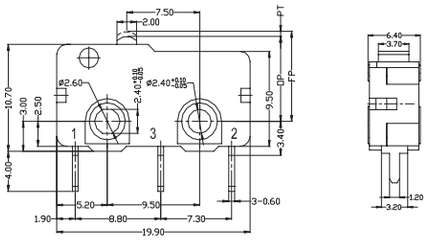


Terminal Dimensions

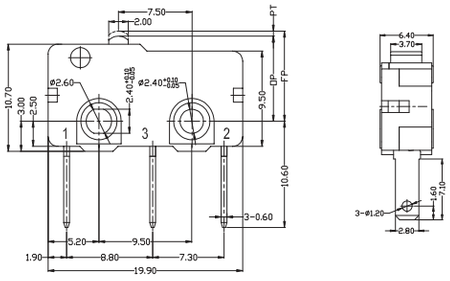
Solder Terminals



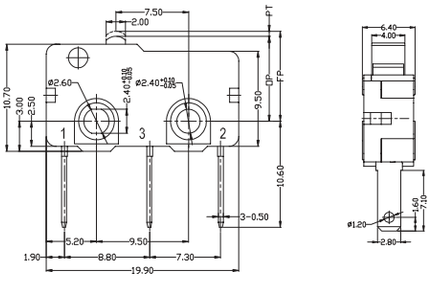
Straight PCB Terminals



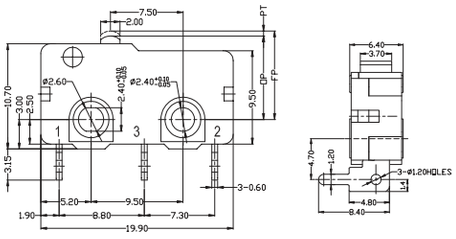
Quick Connect Terminals (Thickness: 0.6 mm)



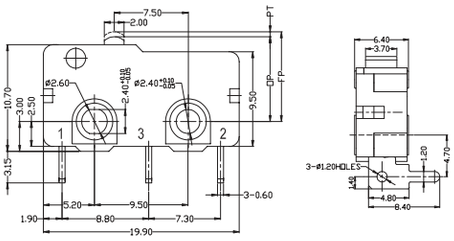
Quick Connect Terminals (Thickness: 0.5 mm)



Left Angled PCB Terminals



Right Angled PCB Terminals



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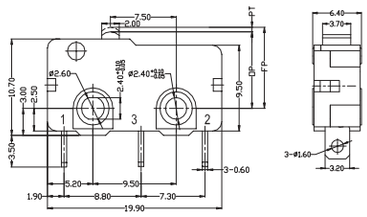
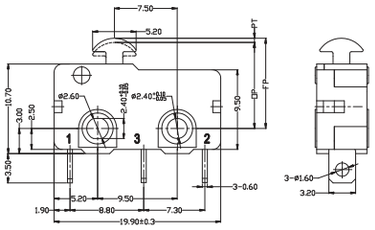
Dimensions and Operating Characteristics

G6□□-□□□S00A



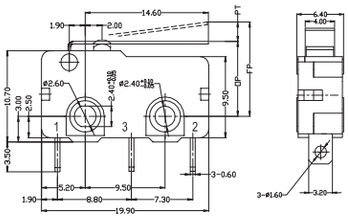
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-100	100	10	1.0	0.4	0.2	9.1	8.5±0.3
-150	150	35	1.0	0.4	0.2	9.1	8.5±0.3
-250	250	50	1.0	0.4	0.2	9.1	8.5±0.3
-350	350	80	1.0	0.4	0.2	9.1	8.5±0.3

G6□□-□□□S00A-B3



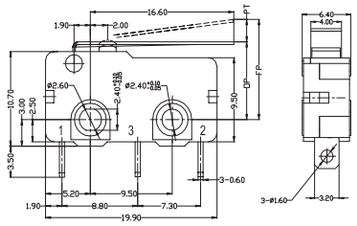
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-100	100	10	1.0	0.4	0.2	10.9	10.3±0.3
-150	150	35	1.0	0.4	0.2	10.9	10.3±0.3
-250	250	50	1.0	0.4	0.2	10.9	10.3±0.3

G6□□-□□□S01A



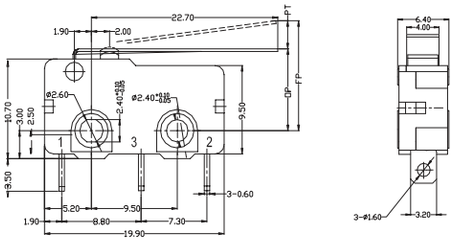
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-100	40	6	3.6	0.6	1.0	11.7	8.9±1.0
-150	50	8	3.6	0.6	1.0	11.7	8.9±1.0
-250	80	15	3.6	0.6	1.0	11.7	8.9±1.0
-350	110	30	3.6	0.6	1.0	11.7	8.9±1.0

G6□□-□□□S02A



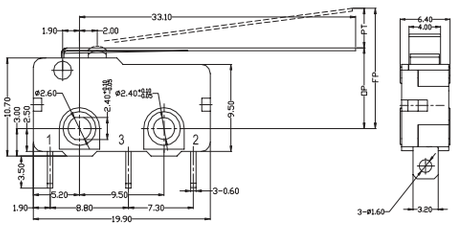
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-100	35	5	4.0	0.6	1.0	12.0	8.9±1.2
-150	45	6	4.0	0.6	1.0	12.0	8.9±1.2
-250	75	10	4.0	0.6	1.0	12.0	8.9±1.2
-350	110	30	4.0	0.6	1.0	12.0	8.9±1.2

G6□□-□□□S03A



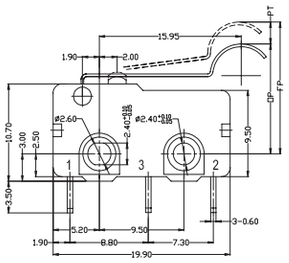
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-100	25	2	6.1	0.8	1.8	13.5	8.9±1.8
-150	35	6	6.1	0.8	1.8	13.5	8.9±1.8
-250	55	10	6.1	0.8	1.8	13.5	8.9±1.8

G6□□-□□□S04A



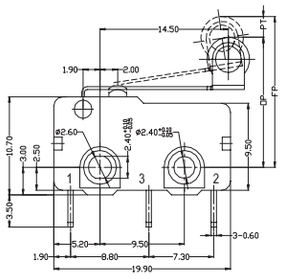
OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-100	15	2	7.5	1.5	2	15.5	8.9±2.0
-150	30	4	7.5	1.5	2.0	15.5	8.9±2.0
-250	45	7	7.5	1.5	2.0	15.5	8.9±2.0
-350	350	80	1.0	0.4	0.2	9.1	8.5±0.3

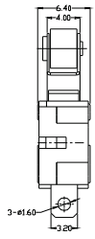
G6□□-□□□S05A



OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-100	35	5	5.0	0.6	1.0	18.5	12.2±1.5
-150	45	6	5.0	0.6	1.0	18.5	12.2±1.5
-250	75	10	5.0	0.6	1.0	18.5	12.2±1.5
-350	100	20	5.0	0.6	1.0	18.5	12.2±1.5

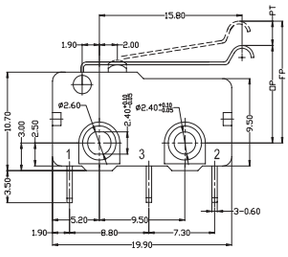
G6□□-□□□S06A





OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-100	40	6	3.8	0.8	1.0	17.6	14.6±1.0
-150	50	8	3.8	0.8	1.0	17.6	14.6±1.0
-250	80	15	3.8	0.8	1.0	17.6	14.6±1.0
-350	110	30	3.8	0.8	1.0	17.6	14.6±1.0

G6□□-□□□S07A



OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-100	40	6	4.5	0.8	1.0	14.4	10.8±1.2
-150	50	8	4.5	0.8	1.0	14.4	10.8±1.2
-250	80	15	4.5	0.8	1.0	14.4	10.8±1.2
-350	110	20	4.5	0.8	1.0	14.4	10.8±1.2

G9 Series

Micro Switch Ordering Instruction

G9	05	200	S	00
Switch Type	**Electrical Rating**	**MaxOperating Force at pin Plunger**	**Terminal Style**	**Lever Type**
G9 Series Micro-Switch	**P1** **ENEC/CQC:** **0.1A 125/250VAC 48 VDC 5E4 μ 25T120** UL/CUL: 0.1A 125/250VAC 48VDC (Gold Plated Contact optional) Only for letter s and p	**150** 150gf Max. (Only for G9P1)	**S** Solder Terminals	**00** Spherical Pin Plunger
	05 **ENEC/CQC:** **6A 125/250VAC 1E4; μ 3A 125/250VAC 30VDC 5E4** UL/CUL: 5A 125/250VAC Only for letter s and p	**200** 200gf Max.	**P** Straight PCB Terminals (0.6mm wide)	**01** Short Straight Lever 17.7mm (0.70")
		300 300gf Max.	**D** 110# Quick Connect Terminals (2.8X0.5mm)	**02** Std. Straight Lever 19.7mm (0.78")
			E Wires leads to bottom (500mm)	**03** Long Straight Lever 25.8mm (1.02")
			F Wires leads to side (500mm) (opposite to plunger)	**05** Small Simulated Roller Lever 18.9mm (0.75")
			G Wires leads to side (500mm) (plugger side)	**06** Roller Lever 15.7mm (0.62")
			... Special Terminals	**07** Small Simulated Roller Lever 19.0mm
				12 Long Straight Lever 56.2mm (2.23")
				... Other

D	1	A	XXX	XXX	XXX
Costruction	**Circuit Code**	**Special Designator**	**AWG Type (for Wire type only)**	**AWG Number (for Wire type only)**	**Wires lenght**
D Dust proof -IP00 No wire	**1** SPDT	General Temperature grade 25T120	20#	UL1007	Standard lenght: 500mm
W Water tight-IP67 With lead wires	**2** SPST - NC	**A** Gold Plated Contacts (Optional Only for G9P1)	**F** 22#	**B** UL1569	
	3 SPST - NO	**D** Special use for high DC ratig	**G** 24#	**C** UL1430	
		B Lever Can Be On Two Sides (opposite to plunger)	**H** 26#	**D** UL1061	
		C Lever Can Be On Two Sides (plunger side)	**M** 28#	**E** UL1330	
		E Lever Can Be On Two Sides (No Lever)		**F** AVSS	
		... Other		**G** UL3266	
				H UL1332	
				K UL1015	

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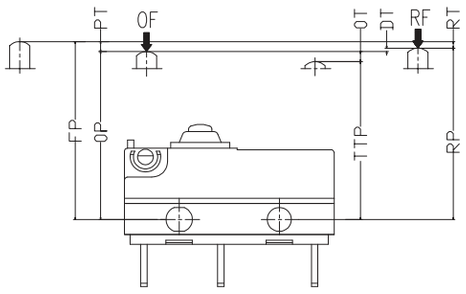
G9	03	130	S	00	A	2	A	XXX	XXX	XXX
Switch Type	Electrical Rating	Operating Force at pin Plunger Max	Terminal Style	Lever Type	Circuit Code	Shape and Posts	Posts Dimension	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

G9 Series

Sealed Mini Micro Switch



Features

- Dust and Water Proof(IP67)Design
- Small Compact Size
- Long Life,High Reliability
- Variety of Terminals and Levers
- Widely used in Auto Control, Appliance and other Industry Control

Applications

- Car
- Phone
- Air-Conditioner
- Computer
- Humidifier
- Alarm
- Timer
- Mixer&Meat Grinder
- Welding Machine
- Neon Phone
- Fax Machine
- Game Controller
- Pump
- Gas Detector
- Pencil Sharpener
- Money Sorter
- Food Processor
- Electric Knife
- Toy Car
- Juice Extractor
- Lighting Equipment
- Electric Frying Pan

Parameters

Rating	P1	0.1A 125/250VAC 48VDC Gold Plated Contact Optional
	05	UL: 5A 125/250VAC ENEC: 6A 125/250VAC 1E4; 3A 125/250VAC 30VDC 5E4 μ25T120
Operating Frequency	Electrical	10~30 cycles/minute
	Mechanical	120 cycles/minute
Contact Resistance (Initiative)		100mΩ Max (It depends on the wire length for the type with wire)
Insulation Resistance (at 500VDC)		100mΩ Min
Dielectric Strenght		AC 1,000V RMS (50~60Hz)
Storage Temperature		-25°C ~ +120°C
Storage Humidity		85%RHMax
Service Life	Electrical	10,000 ~ 100,000 cycles (Depend on part No.)
	Mechanical	500,000 cycles

G9	05	200	S	00	D	1	A	XXX	XXX	XXX
Switch Type	Electrical Rating	MaxOperating Force at pin Plunger	Terminal Style	Lever Type	Costruction	Circuit Code	Special Designator	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

Electrical Rating

P1

ENEC/CQC:
0.1A 125/250VAC 48 VDC
5E4 μ 25T120
UL/CUL:
0.1A 125/250VAC 48VDC
(Gold Plated Contact optional)

05

ENEC/CQC:
6A 125/250VAC 1E4; μ
3A 125/250VAC 30VDC 5E4
UL/CUL:
5A 125/250VAC

Operating Force at pin Plunger Max

150

150gf Max.
(Only for G9P1)

200

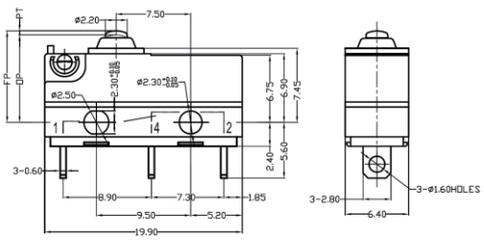
200gf Max.

300

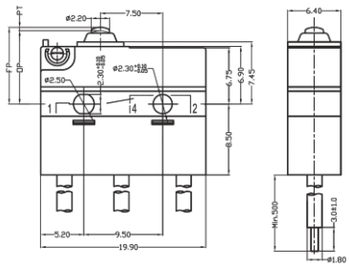
300gf Max.

Terminal Type

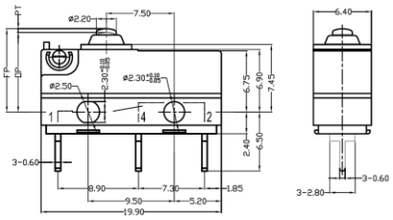
S Solder Terminals



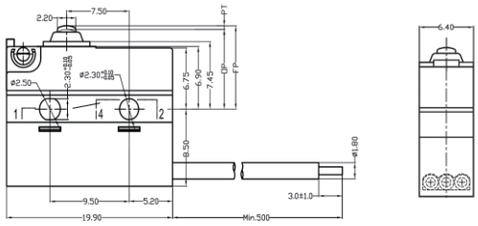
E Wires Leads to Bottom (500mm lenght)



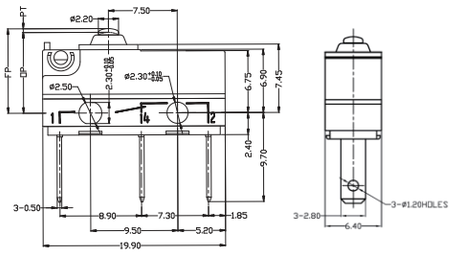
P Straight PCB Terminals



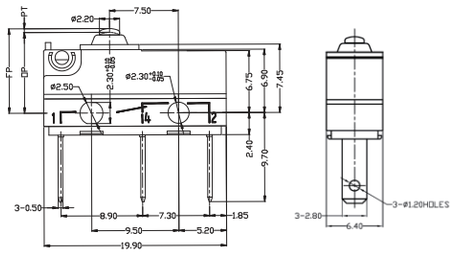
F Wires Leads to Side (Opposite to Pin plunger side)
500mm lenght



D 110# Quick Connect Terminals: 2.8x0.5mm



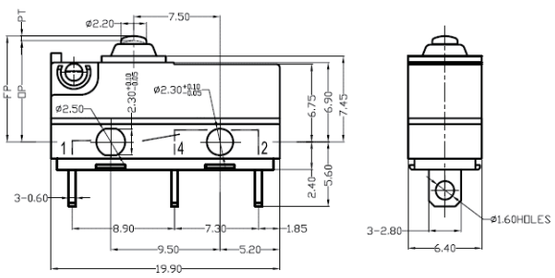
G Wires Leads to Side (Pin plunger side), lenght: 500mm



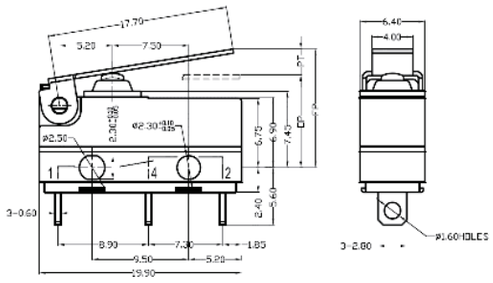
G9	05	200	S	00	D	1	A	XXX	XXX	XXX
Switch Type	Electrical Rating	MaxOperating Force at pin Plunger	Terminal Style	Lever Type	Costruction	Circuit Code	Special Designator	AWG Type (for Wire type only)	AWG Number (for Wire type only)	Wires lenght

Lever Type

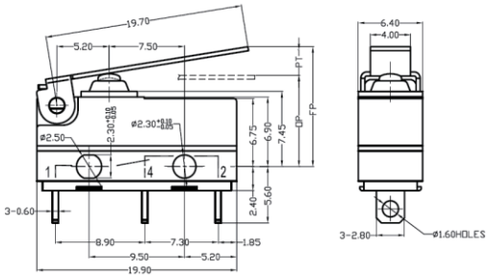
00 Pin Plunger



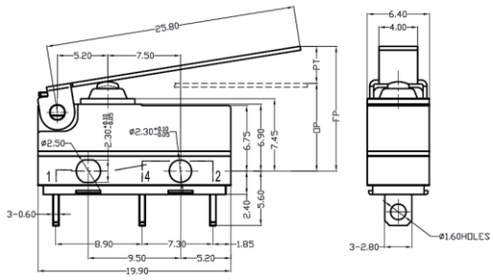
01 Short Straight Lever 17.7mm



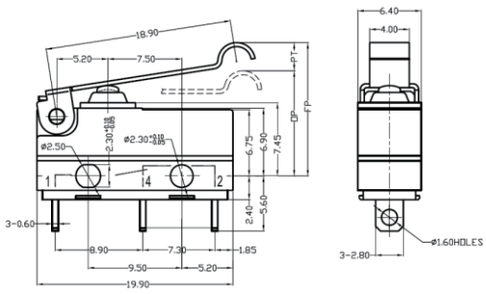
02 Standard Straight Lever 19.7mm



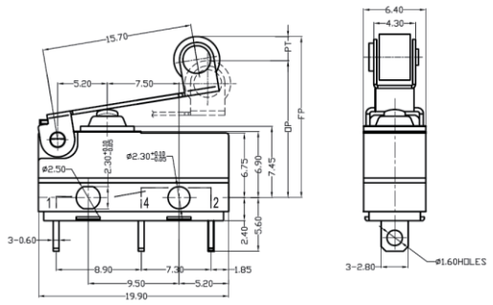
03 Long Straight Lever 25.8mm



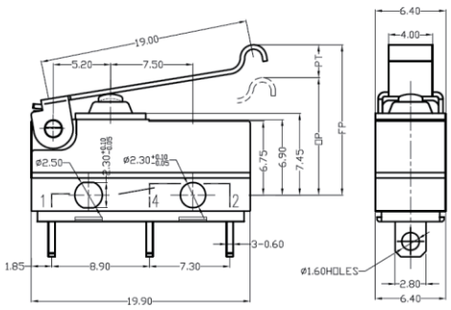
05 Simulated Roller Lever 18.9mm



06 Roller Lever 15.7mm

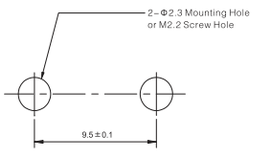


07 Small Simulated Roller Lever 19.0mm

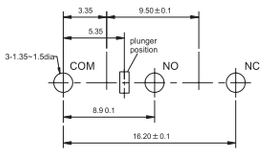


Mounting Hole Dimensions

Mounting Hole Dimensions

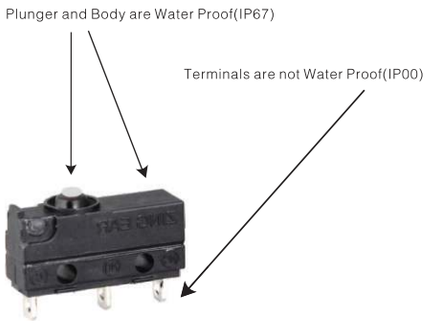


Mounting Hole of PCB Terminals

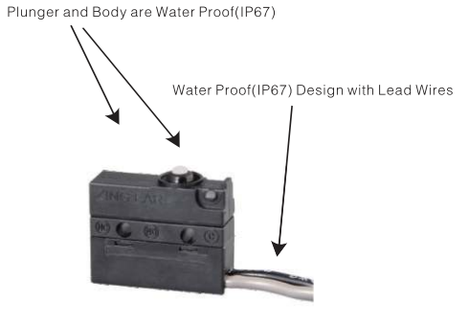


IP Grade

D Without Lead Wires Type, Plunger and Body are Water Proof (IP67); Terminals are not Water Proof (IP00)

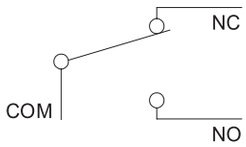


W With Lead Wires Type, Water Proof (IP67)

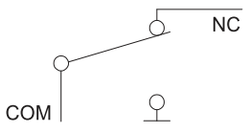


Circuit Configuration

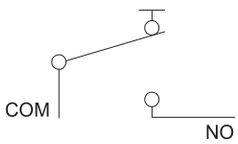
1 SPDT



2 SPST-NC

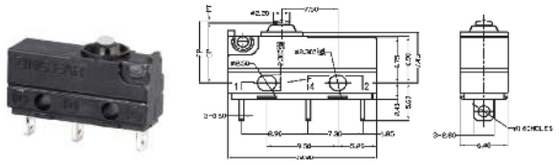


3 SPST-NO



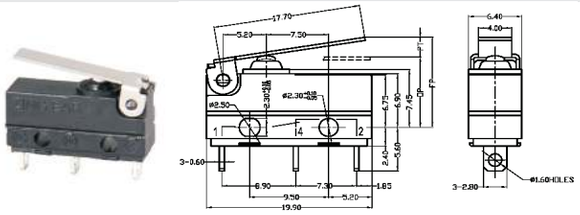
Dimensions and Operating Characteristics

G9 □□-□□□ S00D1



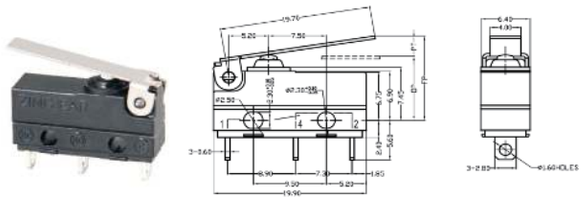
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
150	150	30	1.2	0.6	0.2	9.4	8.4±0.3
-200	200	50	1.2	0.6	0.2	9.4	8.40±0.3

G9 □□-□□□ S01D1



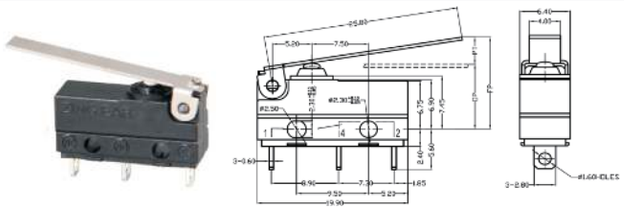
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	8.0	4.3	0.6	0.7	12.0	8.8±1.2
-200	90	15	4.3	0.6	0.7	12.0	8.8±1.2

G9 □□-□□□ S02D1



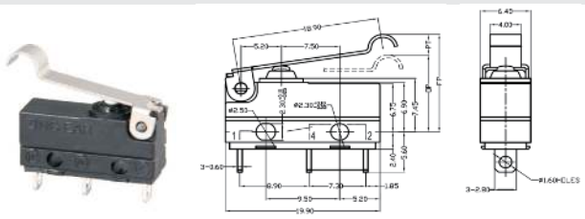
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	6	4.8	0.7	0.8	12.5	8.8±1.3
-200	75	13	4.8	0.7	0.8	12.5	8.8±1.3

G9 □□-□□□ S03D1



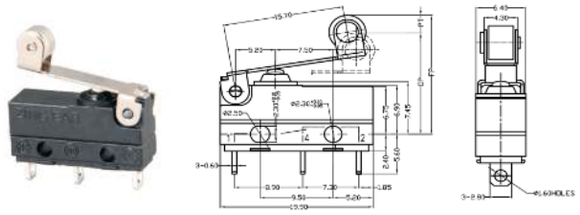
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	40	5	6.3	1.0	1.0	13.5	8.8±1.8
-200	55	8	6.3	1.0	1.0	13.5	8.8±1.8

G9 □□-□□□ S05D1



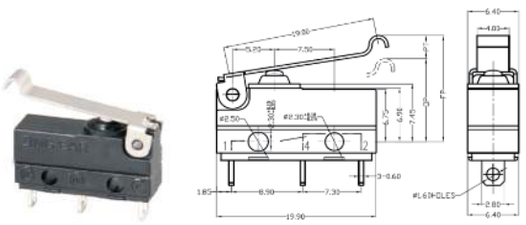
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	6	4.6	0.7	0.8	15.5	11.8±1.5
-200	75	12	4.6	0.7	0.8	15.5	11.8±1.5

G9 □□-□□□ S06D1



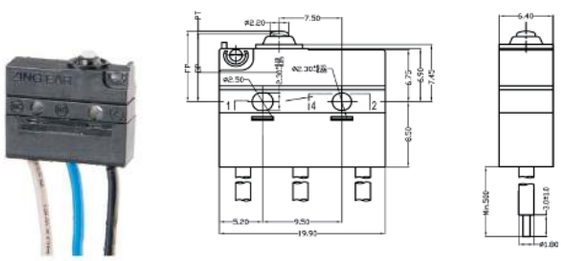
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	65	10	4.3	0.6	0.7	17.5	14.5±1.1
-200	85	15	4.3	0.6	0.7	17.5	14.5±1.1

G9 □□-□□□ S07D1



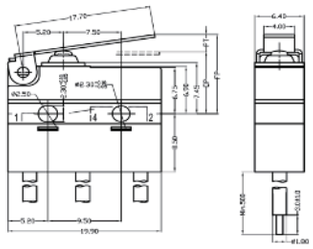
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	9	4.6	0.7	0.8	14.0	10.7±1.5
-200	75	12	4.6	0.7	0.8	14.0	10.7±1.5

G9 □□-□□□ E00W1



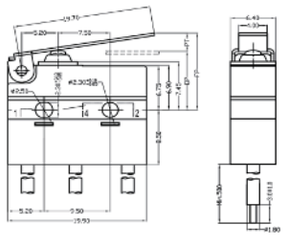
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	150	30	1.2	0.6	0.2	9.4	8.4±0.3
-300	300	70	1.2	0.6	0.2	9.4	8.4±0.3

G9 □□-□□□ E01W1



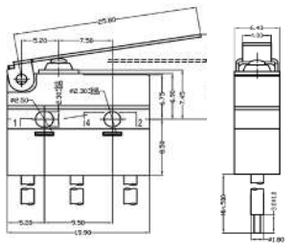
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	8	4.3	0.6	0.7	12.0	8.8±1.2
-300	105	20	4.3	0.6	0.7	12.0	8.8±1.2

G9 □□-□□□ E02W1



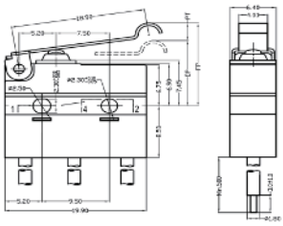
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	6	4.8	0.7	0.8	12.5	8.8±1.3
-300	95	18	4.8	0.7	0.8	12.5	8.8±1.3

G9 □□-□□□ E03W1



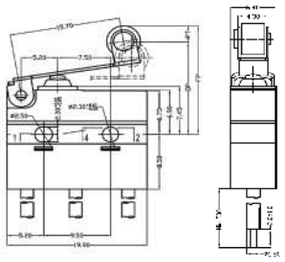
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	40	5	6.3	1.0	1.0	13.5	8.8±1.8
-300	75	13	6.3	1.0	1.0	13.5	8.8±1.8

G9 □□-□□□ E05W1



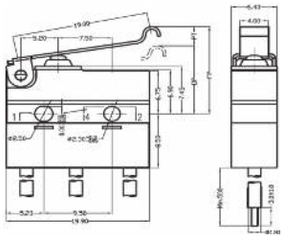
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	6	4.6	0.7	0.8	15.5	11.8±1.5
-300	95	18	4.6	0.7	0.8	15.5	11.8±1.5

G9 □□-□□□ E06W1



OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	65	10	4.3	0.6	0.7	17.5	14.5±1.1
-300	110	25	43.	0.6	0.7	17.5	14.5±1.1

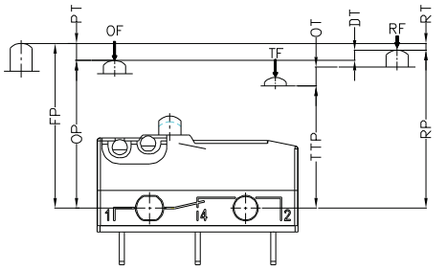
G9 □□-□□□ E07W1



OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	6	4.6	0.7	0.8	14.0	10.7±1.5
-300	95	18	4.6	0.7	0.8	14.0	10.7±1.5

G91 Series

Mini Micro Switch



Features

- Small Compact Size
- Long Life,High Reliability
- Variety of Terminals and Levers
- Widely Used in Auto, Appliance and Other Industry Contract

Applications

- Car
- Phone
- Air-Conditioner
- Computer
- Alarm
- Timer
- Mixer&Meat Grinder
- Fax Machine
- Money Sorter
- Toy Car

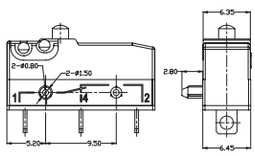
Parameters

Rating	P1	ENEC/UL: 0.1A 125/250V 48VDC Gold Plated Contact Optional
	05	ENEC: 5A 125/250VAC; UL: 5A 1/8HP, 125/250VAC
	10	ENEC: 10(1.5)A 125/250VAC; UL:10. 1A 1/4HP 125/250VAC
Operating Frequency	Electrical	10~30 cycles/minute
	Mechanical	120 cycles/minute
Contact Resistance (Initiative)		100mΩ Max
Insulation Resistance (at500VDC)		100MΩ Min
Dielectric Strenght		AC 1,000V RMS (50~60Hz)
Operating Temperature		-40°C ~ +125°C or -40°C ~ +85°C
Storage Humidity		85%RHMax
Service Life	Electrical	10,000 ~ 100,000 cycles (Depend on part No.)
	Mechanical	1,000,000 cycles

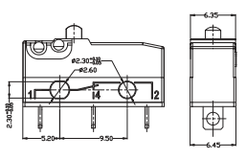
G91	05	150	S	00	D	1	
Switch Type	**Electrical Rating**	**Max Operating Force at Pin Plunger**	**Terminal Type**	**Lever Type**	**Costruction**	**Circuit Code**	**Special Designator**
G91 Series Micro Switch	**P1** ENEC/CQC: 0.1A 125/250VAC 48VDC μ 25T125 5E4 UL/CUL 0.1A 125/250VAC 48VDC	**100** 100gf Max.	**S** Solder Terminals	**00** No Lever Pin Plunger (Spherical surface)	**D** Mounting Hole 2.30mm	**1** SPDT	General (Temperature grade 40T125)
	05 ENEC/CQC: 5A 125/250VAC 5E4 μ 40T125 UL/CUL 5A 125/250VAC	**150** 150gf Max.	**P** Straight PCB connect (0.6mm wide)	**0A** Cambered Surface	**E** Two sides posts Φ 1.8mmX2.8mm	**2** SPST-NC	**T** Temperature grade 40T85
	10 ENEC/CQC: 10(1.5)A 125/250VAC μ 40T125 UL/CUL: 10.1A 1/4HP 125/250VAC	**250** 250gf Max.	**D** 0x11"x0.023" Quick connect 2.80x0.5mm	**01** Short Straight Lever 17.7mm	**F** Right side posts Φ 1.8mmX2.8mm	**3** SPST-NO	**TXXX** TXXX
		300 300gf Max.	**R** Right side PCB connect	**02** Std. Straight Lever 19.9mm	**G** Left side posts Φ 1.8mmX2.8mm		
			L Left side PCB connect	**03** Long Straight Lever 25.8mm	**...** Other		
			K wide Straight PBC connect (0.6mm wide)	**04** Long Straight Lever 55.30mm			
			... Other	**05** Small Simulated Roller Lever 15.8mm			
				06 Roller Lever 15.8mm			
				07 Small Simulated Roller Lever 18.5mm			
				08 Small Simulated Roller Lever 19.00mm			

Mounting Hole Dimensions

Mounting Post Type

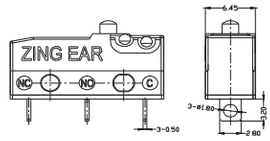


Mounting Hole Type

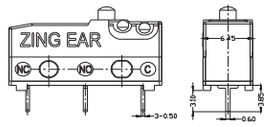


Terminal Dimensions

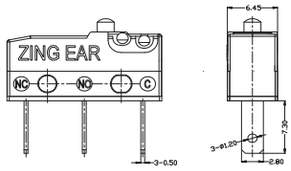
S Solder Terminals



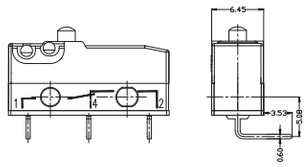
P Straight PCB Terminals (0.6mm wide)



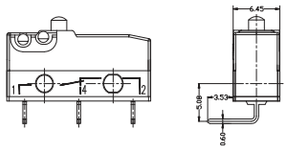
D 110# Quick Connect Terminals (2.8x0.5mm)



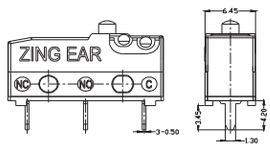
R Right Angled PCB Terminals



L Left Angled PCB Terminals

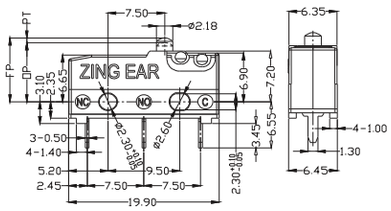


K Straight PCB Terminals (1.3mm wide)



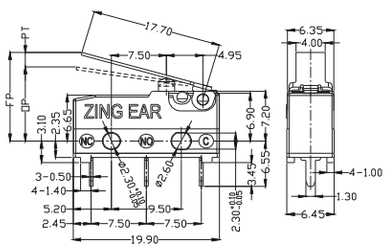
Dimensions and Operating Characteristics

Pin Plunger



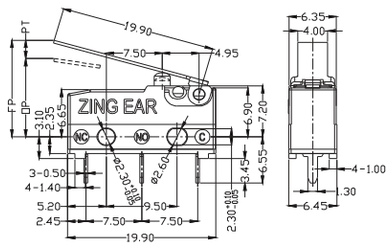
Part No.	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G91□□-100□00D1	1.00	100	0.10	10	1.1	0.6	0.2	8.4±0.3
G91□□-150□00D1	1.50	150	0.35	35	1.1	0.6	0.2	8.4±0.3
G91□□-250□00D1	2.50	250	0.40	40	1.1	0.6	0.2	8.4±0.3
G91□□-300□00D1	3.00	300	0.60	60	1.1	0.6	0.2	8.4±0.3

Short Straight Lever



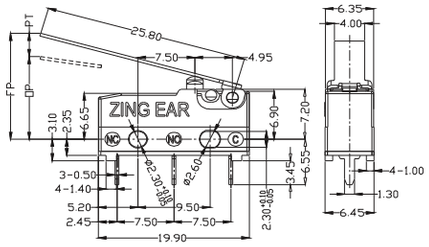
Part No.	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G91□□-100□01D1	0.45	45	0.03	3	4.3	1.2	0.8	10.7±1.3
G91□□-150□01D1	0.60	50	0.08	8	4.3	1.2	0.8	10.7±1.3
G91□□-250□01D1	0.85	85	0.10	10	4.3	1.2	0.8	10.7±1.3
G91□□-300□01D1	1.20	120	0.15	15	4.3	1.2	0.8	10.7±1.3

Std. Straight Lever



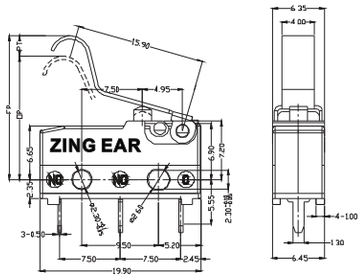
Part No.	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G91□□-100□02D1	0.40	40	0.02	2	4.8	1.2	1.2	11.1±1.5
G91□□-150□02D1	0.50	50	0.06	6	4.8	1.2	1.2	11.1±1.5
G91□□-250□02D1	0.75	75	0.08	8	4.8	1.2	1.2	11.1±1.5
G91□□-300□02D1	1.10	110	0.12	12	4.8	1.2	1.2	11.1±1.5

Long Straight Lever



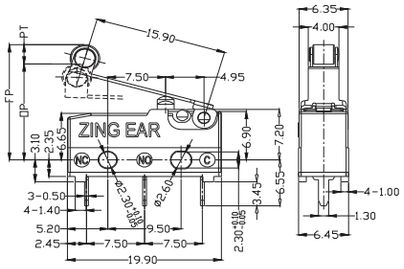
Part No.	Parameters							
	OF Max.		RF Min.		PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
	(N)	(gf)	(N)	(gf)				
G91□□-100□03D1	0.35	35	0.01	1	6.3	1.5	1.5	12.0±1.8
G91□□-150□03D1	0.40	40	0.04	4	6.3	1.5	1.5	12.0±1.8
G91□□-250□03D1	0.65	65	0.06	6	6.3	1.5	1.5	12.0±1.8
G91□□-300□03D1	0.90	90	0.10	10	6.3	1.5	1.5	12.0±1.8

Short Std. Simulated Roller Lever



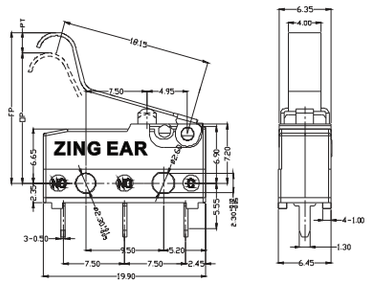
Part No.	Parameters							
	OF Max.		RF Min.		PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
	(N)	(gf)	(N)	(gf)				
G91□□-100□05D1	0.50	50	0.03	3	4.3	1.0	0.7	16.0±1.3
G91□□-150□05D1	0.65	65	0.08	8	4.3	1.0	0.7	16.0±1.3
G91□□-250□05D1	0.95	95	0.12	12	4.3	1.0	0.7	16.0±1.3
G91□□-300□05D1	1.30	130	0.16	16	4.3	1.0	0.7	16.0±1.3

Short Roller Lever



Part No.	Parameters							
	OF Max.		RF Min.		PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
	(N)	(gf)	(N)	(gf)				
G91□□-100□06D1	0.50	50	0.03	3	4.3	1.0	0.7	15.8±1.3
G91□□-150□06D1	0.65	65	0.08	8	4.3	1.0	0.7	15.8±1.3
G91□□-250□06D1	0.95	95	0.12	12	4.3	1.0	0.7	15.8±1.3
G91□□-300□06D1	1.30	1.30	0.16	16	4.3	1.0	0.7	15.8±1.3

Long Std. Simulated Roller Lever



Part No.	Parameters							
	OF Max.		RF Min.		PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
	(N)	(gf)	(N)	(gf)				
G91□□-100□07D1	0.45	45	0.03	3	4.8	1.3	1.0	16.4±1.5
G91□□-150□07D1	0.60	60	0.08	8	4.8	1.3	1.0	16.4±1.5
G91□□-250□07D1	0.85	85	0.11	11	4.8	1.3	1.0	16.4±1.5
G91□□-300□07D1	1.20	120	0.15	15	4.8	1.3	1.0	16.4±1.5

G9A/G9B Series

3.5mm Travel Micro Switch

Features

- G9A Dust and Water Proof(IP67) / G9B Dust Proof(IP40)
- Small Compact Size Global Safety Approval
- Long Life and High Reliability, Variety of Terminals
- Variety of Levers Optional, Long Overtravel of 2.20mm Minimum
- Widely used in Auto Control, Appliance and Other industry Contral

Applications

- Car
- Home Appliances
- Motor Control

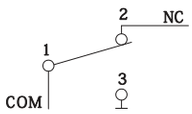
Parameters

Rating	P1	0.1A 125/250VAC 30VDC
	05	5(2)A 125/250VAC 30VDC
Operating Frequency	Electrical	10~30 cycles/minute
	Mechanical	120 cycles/minute
Contact Resistance (Initiative)		100mΩ Max (It depends on the wire lenght for the type with wire)
Insulation Resistance (at500VDC)		100MΩ Min
Dielectric Strenght		AC 1,000V RMS (50~60Hz)
Storage Temperature		-40°C ~ +85°C
Storage Humidity		85%RH Max
Service Life	Electrical	50,000 cycles (Depend on part No.)
	Mechanical	250,000 cycles (IP67) 2,000,000 cycles (IP40)

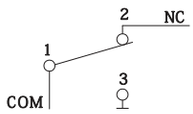
G9A	05	200	S	01	A	300	T001
Switch Type	**Electrical Rating**	**Max Operating Force at Pin Plunger**	**Terminal Type**	**Lever Type**	**Circuit Code**	**Wires lenght (AWG Number UL1007 AWG type 20#**	**Custom Code**
G9A IP67 G9B IP40 Series Micro Switch	**P1** ENEC/CQC: 0.1A 125/250VAC 30VDC 40T85 μ 5E4	**200** 200gf Max.	**S** Solder Terminals	**00** No Lever Pin Plunger	**A** SPDT	500mm length standard lead wires	**T001**
			P Straight PCB terminal	**01** 01Plunger	**B** SPST-NC	**300** 300mm lenght	**...** Other
	05 ENEC/CQC: 5(2)A 125/250VAC 5A 30VDC 40T85 μ 5E4	**300** 300gf Max.	**E** Molded lead wires downwards	**...** Other	**C** SPST-NO	**...**	
			F Molded lead wire to right side (Opposite to pin plunger side)				
	... Other	**...** Other	**G** Molded lead wire to left side (pin plunger side)				
			... Special terminals				

Circuit Configuration

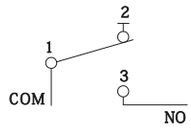
A SPDT



B SPST-NC

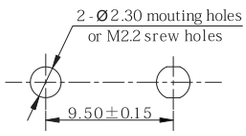


C SPST-NO

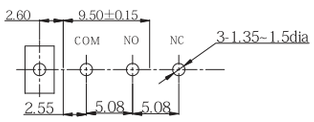


Mounting Hole Dimensions

Mounting Hole Dimension

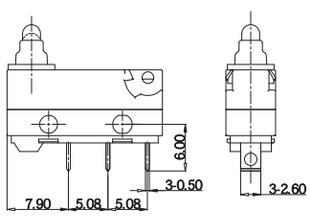


Mounting Hole Dimension of PCB Terminals

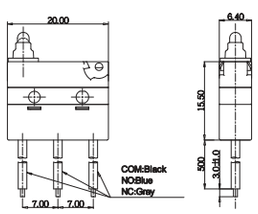


Terminal Dimensions

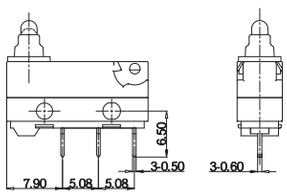
S Straight Solder Terminals



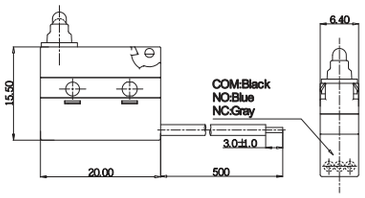
E Wires Leads to Bottom (500mm length)



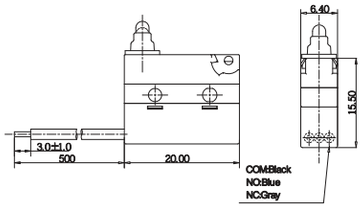
P Straight PCB Terminals



F Wires Leads to right Side (Opposite to Pin plunger side), 500mm lenght

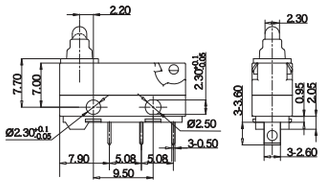


F Wires Leads to left Side (Opposite to Pin plunger side), 500mm lenght



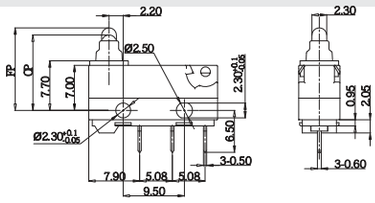
Lever Type

00 Pin Plunger



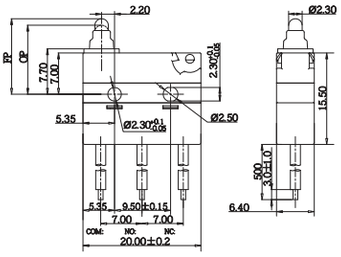
Dimensions and Operating Characteristics

G9A □□-□□ S00A



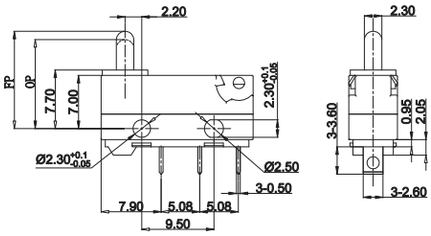
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	150	30	1.2	0.6	0.2	9.4	8.4±0.3

G9A □□-□□ E00A-□□□



OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	8	4.3	0.6	0.7	12.0	8.8±1.2

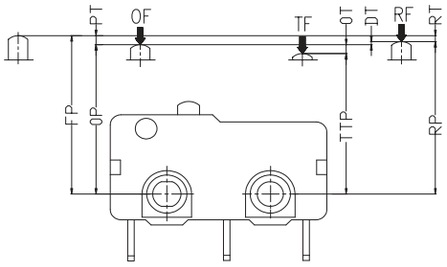
G9B □□-□□ S00A



OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	6	4.8	0.7	0.8	12.5	8.8±1.3

G10 Series

Subminiature Micro Switch



Features

- Small Compact Size
- Variety of Terminals
- Widely used in Appliance and Industry Control
- Long Life and High Reliablity
- Variety of Levers Optional

Applications

- Walkie Talkie
- Telephone
- Battery Charger
- Mixer & Chopper
- Mouse
- Calculator
- Alarm
- Electric Knife
- Tester Machine
- Home Appliances
- Video Cassette Rewinder
- Electric Stapler
- Electric Pan
- Cordless Phone

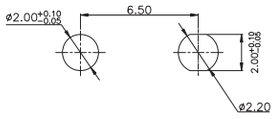
Parameters

Rating	P1	0.1A 48VDC/125VAC (Gold plated Optional)
	03	1A/3A 125VAC
Operating Frequency	Electrical	10~30 cycles/minute
	Mechanical	120 cycles/minute
Contact Resistance (Initiative Value)		100mΩ Max (Depends on P/Ns)
Insulation Resistance (at500VDC)		at 500VDC, 100MΩ Min
Dielectric Strenght		AC 600V RMS (50~60Hz)
Storage Temperature		-40°C ~ +85°C
Storage Humidity		85%RHMax
Service Life	Electrical	6,000 ~ 100,000 cycles (Depend on P/Ns)
	Mechanical	1,000,000 cycles (5,000,000 cycles Optional)
Unit Net Weight		About 0.5g (Straight PCB type without lever)

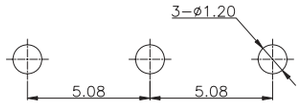
G10	P1	150	S	00	A	XX	XX
Switch Type	**Electrical Rating**	**Max Operating Force at Pin Plunger**	**Terminal Type**	**Lever Type**	**Circuit Code**	**Special Designator**	**Special Designator**
G10 Series Micro Switch	**P1** ENEC/CQC: 0.1A 125VAC 48VDC 40T85 μ 1E4 UL/CUL: 0.1A 125VAC 48VDC	**90** 90gf Max.	**S** Solder Terminals	**00** No Lever Pin Plunger	**A** SPDT	General	Here means special designator letter, refer to product specification for details
	03 ENEC/CQC: 1A / 3A 125VAC 40T85 μ 1E4 UL/CUL: 0.1A 125VAC 48VDC	**150** 150gf Max.	**P** Straight PCB Terminals	**01** 10.0mm Short Straight Lever 0.39"		**A** Gold Plated	
		... Other	**Q** Snap in PBC Terminals	**02** 13.0mm Std. Straight Lever 0.52"		**B** Only for low current	
			M Short Solder Terminals	**03** 18.8mm Long Straight Lever 0.71"		**12** Non-Halogen Material	
			R Right Angled PBC Terminals	**05** 11.8mm Simulated Roller Lever 0.46"			
			L Left Angled PBC Terminals	**07** 15.0mm Small Simulated Roller Lever 0.59"			
			K Long solder Terminals	**09** 30.0mm Long Straight Lever			
			... Special Terminals	**10** 12.80mm Roller Lever			
				... Special Lever			

Mounting Hole Dimensions

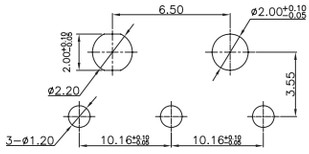
Mounting Hole Dimension



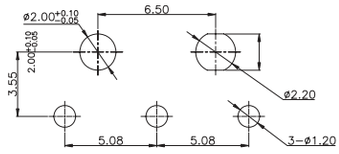
Mounting Hole Dimension of PCB Terminals



Mounting Hole Dimension of Right Angled PCB Terminals

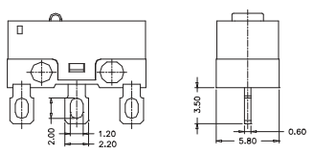


Mounting Hole Dimension of Left Angled PCB Terminals

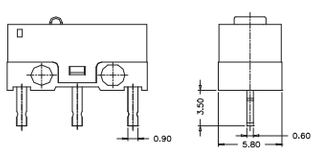


Terminal Dimensions

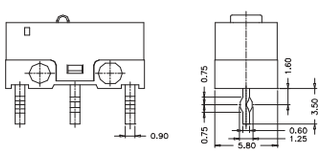
S Straight Solder Terminals



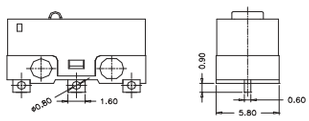
P Straight PCB Terminals



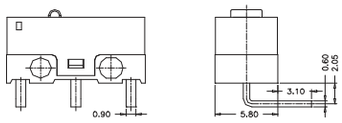
Q PCB snap-in(clip) Terminals



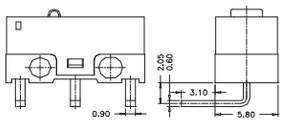
M Short Solder Terminals



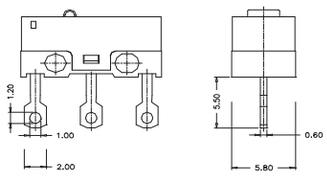
R Right Angled PCB Terminals



L Left Angled PCB Terminals

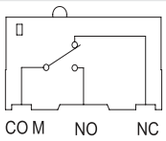


K Long Solder Terminals



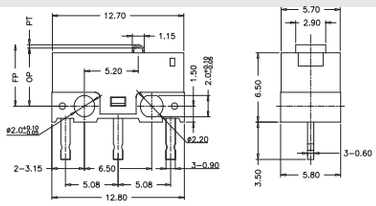
Circuit Configuration

SPDT



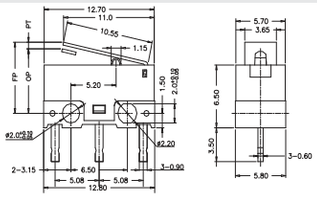
Dimensions and Operating Characteristics

G10 ☐☐-☐ P00A



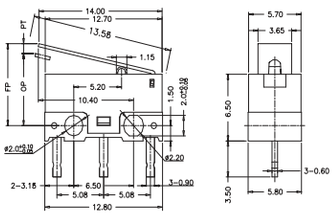
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-090	90	15	0.65	0.2	0.2	6.0	5.5±0.3
-150	150	20					

G10 ☐☐-☐ P01A



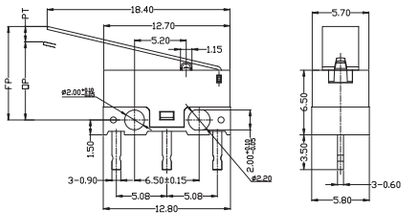
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-090	40	6	2.5	0.3	0.6	0.8	6.25±0.8
-150	60	10					

G10 ☐☐-☐ P02A



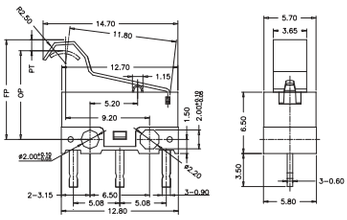
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-090	30	4	3.4	0.3	0.8	8.8	6.35±0.9
-150	50	8					

G10 □□-□ P03A



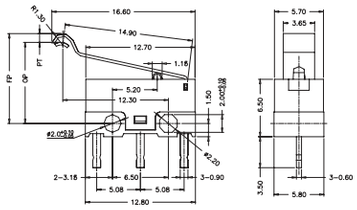
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-090	40	3	4	0.05	1	10	7.5±1.5
-150	50	5					

G10 □□-□ P05A



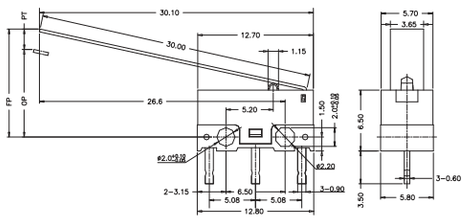
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-090	40	5	3.0	0.3	0.7	12	9.5±0.8
-150	50	8					

G10 □□-□ P07A



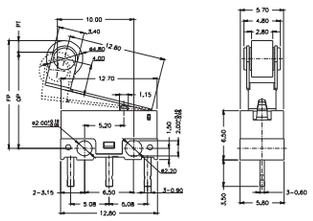
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-090	30	5	3.5	0.3	1.1	11.5	8.2±1.0
-150	50	8					

G10 □□-□ P09A



OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-090	15	2	6.9	0.4	2.5	14.0	8.2±2.1
-150	23	3					

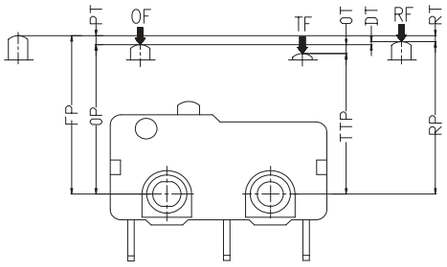
G10 □□-□ P10A



OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-090	35	3	5.5	0.3	0.8	16.5	13.0±1.3

G10A Series

Subminiature Micro Switch



Features

- Small Compact Size
- Long Life and High Reliability
- Variety of Terminals
- Variety of Levers Optional
- Widely used in Appliance and Industry Contract

Applications

- Walkie Talkie
- Mouse
- Electric Knife
- Electric Stapler
- Telephone
- Calculator
- Mixer&Chopper
- Electric Pan
- Battery Charger
- Video Cassette Rewinder
- Cordless Phone
- Alarm
- Tester Machine
- Home Appliances

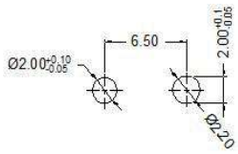
Parameters

Rating	**P1**	0.1A 125/250VAC 30VDC
	03	3A 125/250VAC 30VDC
Operating Frequency	**Electrical**	10~30 cycles/minute
	Mechanical	120 cycles/minute
Contact Resistance (Initiative)		100mΩ Max
Insulation Resistance (at500VDC)		at 500VDC, 100MΩ Min
Dielectric Strenght		AC 600V RMS (50~60Hz)
Storage Temperature		-40°C ~ +85°C
Storage Humidity		85%RHMax
Service Life	**Electrical**	10,000 cycles
	Mechanical	1,000,000 cycles

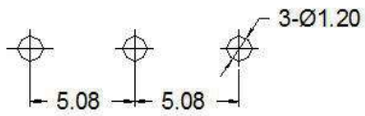
G10A	03	150	S	01	A	T001
Switch Type	**Electrical Rating**	**Max Operating Force at Pin Plunger**	**Terminal Type**	**Lever Type**	**Circuit Code**	**Custom code**
Switch Type	**P1** ENEC/CQC 0.1A 125/250VAC 30VDC 40T85 μ 1E4 UL/CUL: 0.1A 125/250VAC 30VDC	**150** 150gf Max.	**S** Solder Terminals	**00** No Lever Pin Plunger	**A** SPDT	General
			P Straight PCB Terminals	**01** 01# Straight	**B** SPST-NC	**T001**
	03 ENEC/CQC: 3A 125/250VAC 30VDC 40T85 μ 1E4 UL/CUL: 3A 125/250VAC 30VDC	**...** Other	**Q** Snap in PBC Terminals	**...** Other	**C** SPST-NO	**...** Other
			M Short Solder Terminals			
			R Right Angled PBC Terminals			
			L Left Angled PBC Terminals			
			K Long solder Terminals			
			... Special Terminals			

Mounting Hole Dimensions

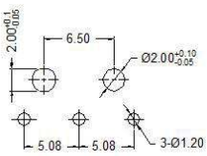
Mounting Hole Dimension



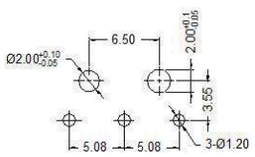
Mounting Hole Dimension of PCB Terminals



Mounting Hole Dimension of Right Angled PCB Terminals

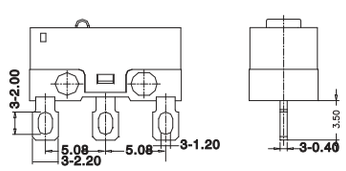


Mounting Hole Dimension of Left Angled PCB Terminals

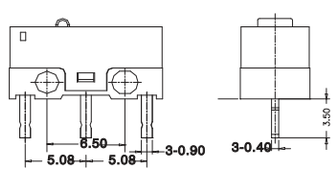


Terminal Dimensions

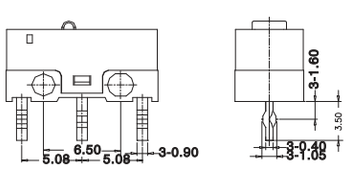
S Straight Solder Terminals



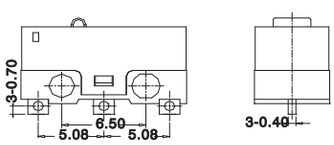
P Straight PCB Terminals



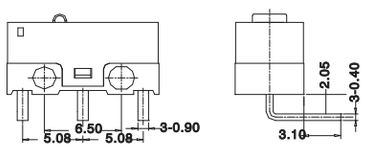
Q PCB snap-in(clip) Terminals



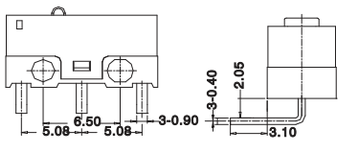
M Short Solder Terminals



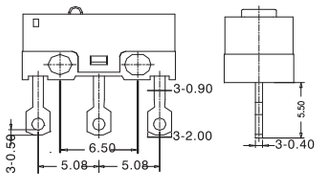
R Right Angled PCB Terminals



L Left Angled PCB Terminals

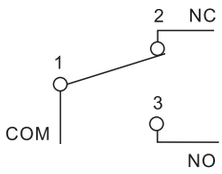


K Long Solder Terminals



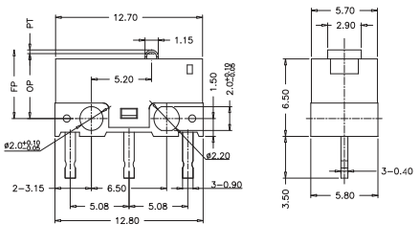
Circuit Configuration

SDST



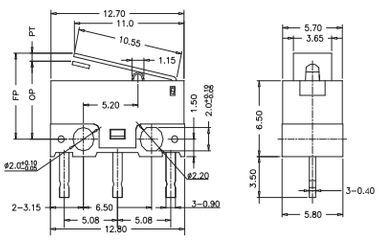
Dimensions and Operating Characteristics

G10A ☐☐-☐ P00A



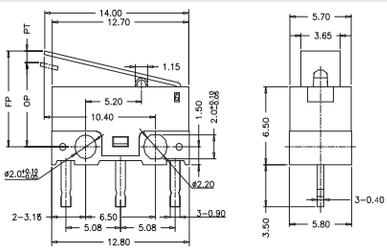
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	150	20	0.65	0.3	0.6	9	6.65±0.9

G10A ☐☐-☐ P01A



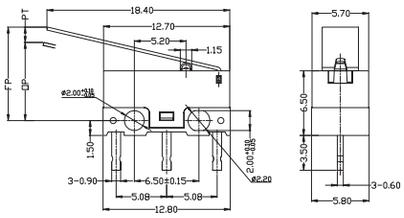
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	60	10	2.5	0.3	0.6	9	6.65±0.9

G10A ☐☐-☐ P02A



OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	8	3.4	0.3	0.8	9.5	7.0±1.2

G10A ☐☐-☐ P03A

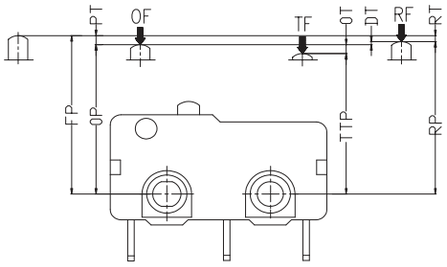


OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	5	4	0.5	1	10	7.5±1.5

Everel
THE WORLD IN A CLICK

G10B Series

Subminiature Sealed Micro Switch



Features

- Designed For Water and Dust Tight (IP67)
- Small Compact Size
- Long Life and High Reliability
- Variety of Levers Optional
- Widely used in Automotive Electronics, Appliance and Industriai Control etc.

Applications

- Car
- Air- conditioner
- Communication
- HomeAppliance

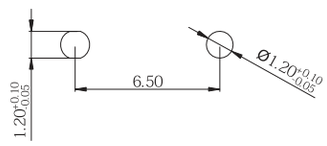
Parameters

Rating	**P1**	0.1A 125/250VAC 30VDC
	03	3A 125/250VAC 30VDC
Operating Frequency	**Electrical**	10~30 cycles/minute
	Mechanical	120 cycles/minute
Contact Resistance (Initiative)		100mΩ Max
Insulation Resistance (at500VDC)		at 500VDC, 100MΩ Min
Dielectric Strenght		AC 600V RMS (50~60Hz)
Storage Temperature		-40°C ~ +85°C
Storage Humidity		85%RHMax
Service Life	**Electrical**	10,000 cycles
	Mechanical	300,000 cycles

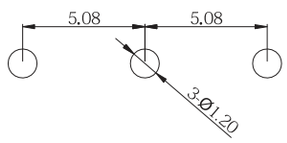
G10B	03	150	S	01	A	300	T001
Switch Type	**Electrical Rating**	**Max Operating Force at Pin Plunger**	**Terminal Type**	**Lever Type**	**Circuit Code**	**Wires lenght (AWG Number UL1007 AWG type 20#**	**Custom Code**
Switch Type	**P1** ENEC/CQC: 0.1A 125/250VAC 30VDC 40T85 μ 1E4 UL/CUL 0.1A 125/250VAC 30VDC	**150** 150gf Max.	**E** Molded lead wires downwards	**00** No Lever Pin Plunger	**A** SPDT	**300** 300mm lenght standard lead wires	General
	03 ENEC/CQC: 3A 125/250VAC 30VDC 40T85 μ 1E4 UL/CUL 3A 125/250VAC 30VDC	**...** Other	**G** Molded lead Wires Leads to left Side (Pin plugger side)	**02** 02# Straight	**B** SPST-NC	**100** 100mm length	**T001**
			F Molded lead Wires Leads to right Side (Opposite pin plunger side)	**03** 03# Straight	**C** SPST-NO	**...** Other	**...** Other
			S Solder Terminals	**...** Other			
			P Straight PBC Terminals				
			Q Snap in PBC Terminals				
			... Special terminals				

Mounting Hole Dimensions

Mounting Hole Dimension

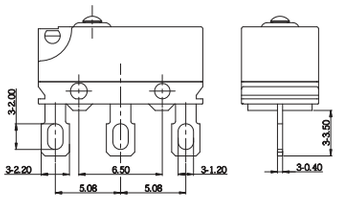


Mounting Hole Dimension of PCB Terminals

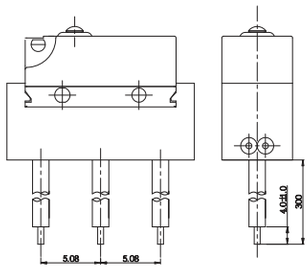


Terminal Dimensions Terminal thickness: 0.4mm

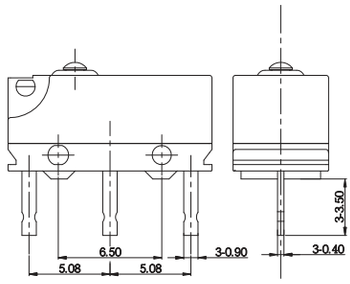
S Straight Solder Terminals



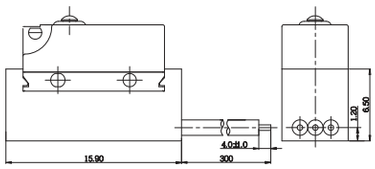
E Wire leads to bottom (300mm lenght)



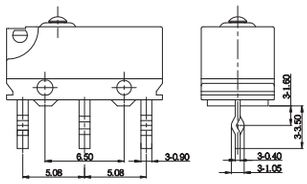
P Straight PCB Terminals



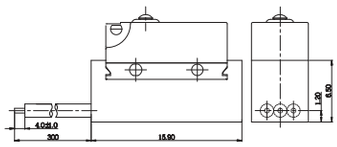
F Wire leads to right side (Opposite to pin plunger side) 300mm lenght



Q PCB SNAP-IN (Clip) Terminals

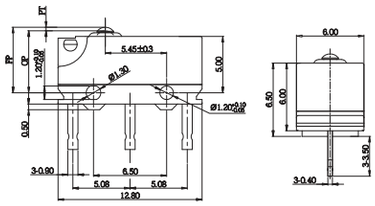


G Wire leads to left side (pin plunger side) 300mm lenght

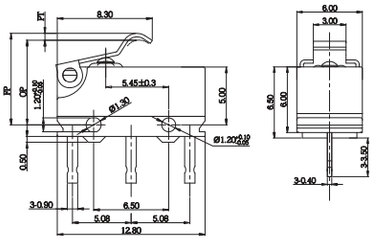


Lever Type

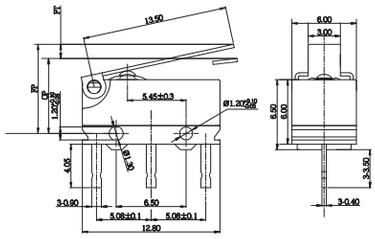
00 Pin Plunger



02 02# Lever

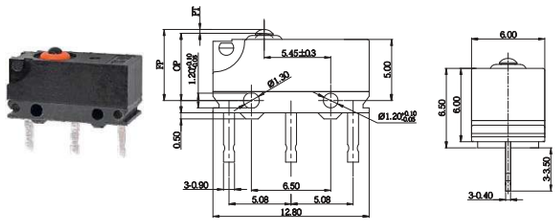


03 03# Lever



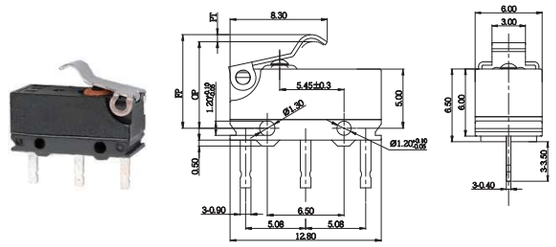
Dimensions and Operating Characteristics

G10B □□-□ P00A



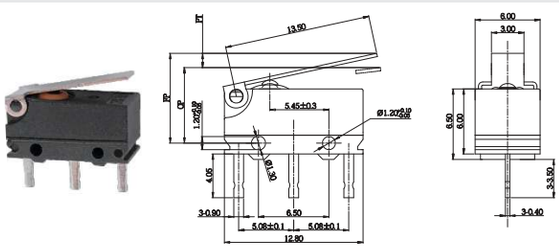
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	150	20	0.65	0.2	0.2	6.1	5.5±0.3

G10B □□-□ P02A



OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	90	15	1.5	0.3	0.7	8.7	7.5±0.6

G10B □□-□ P03A



OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-150	50	8	3.4	0.3	0.8	8.8	6.7±1.0

Note:
All products information in this catalogue is for reference only, we may change the specification in the catalogue before any notification in advance. Please contact with sales representative to get the newly individual product specification before you purchase it.

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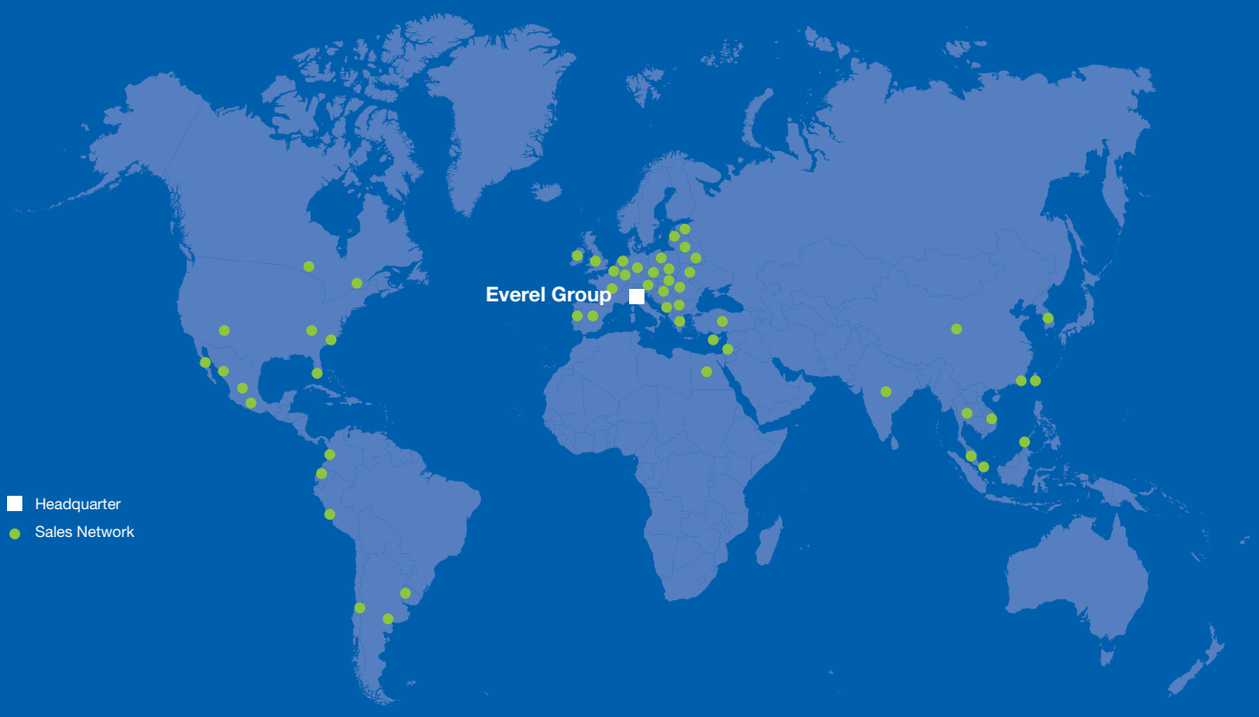

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Ed. 2020