

G303

超小型防水防尘微动开关 Subminiature Sealed Micro Switch



■特点/Features

- | | |
|-------------------------|--|
| ◆防水防尘 (IP67) 设计 | -Designed For Water and Dust Tight (IP67) |
| ◆体型小巧, 紧凑 | -Small Compact Size |
| ◆拥有全球安规认证 | -Global Safety Approvals |
| ◆长寿命, 高可靠性 | -Long Life and High Reliability |
| ◆配备各种形式的操作柄 | -Variety of Levers |
| ◆接线端子种类齐全 | -Wide Range of Wiring Terminals |
| ◆广泛应用于汽车控制、家电控制、工业控制等领域 | -Widely used in Automotive Electronics, Appliance and Industrial Control Designs |
| ◆各种安装外形尺寸满足不同的安装要求 | |

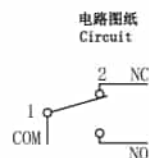
■应用/Application

- | | |
|---------------------|----------------------------|
| ◆汽车/Car | ◆电动牙刷/Electric Tooth Brush |
| ◆空调/Air-Conditioner | ◆玩具/Toys |
| ◆通信/Communication | ◆单车/Bicycle |

■特性参数/Parameters

额定值/Rating		0.1A, 125/250VAC; 3A/12VDC; 0.1A/48VDC; μ E5
操作频率 Operating Frequency	电气/Electrical	0.1A-120次/分; 3A-10~30次/分 cycles/minute
	机械/Mechanical	120次/分Cycles/minute
初始接触电阻/Contact Resistance (Initial)		100m Ω Max (不带线性/without wire type)
绝缘电阻/Insulation Resistance (at 500VDC)		100m Ω Min
抗振动/Vibration Durability		10~55Hz, 位移/move 0.75mm (p-p)
抗电强度/Dielectric Strength		500VAC (50~60Hz)
保存温度/Storage Temperature		-40° C~+85° C
保存湿度/Storage Humidity		85%RHMax
寿命/Service Life	电气/Electrical	Min. 100,000次/cycles (取决于具体型号/Depend on part NO.)
	机械/Mechanical	Min. 500,000次/cycles

■电路图/Circuit

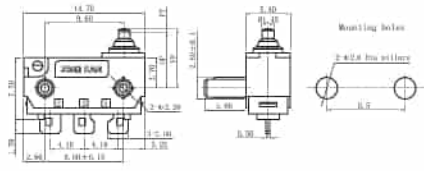
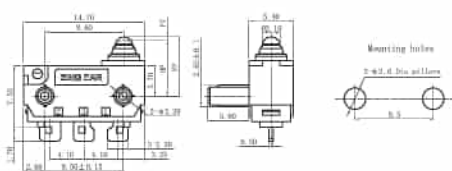
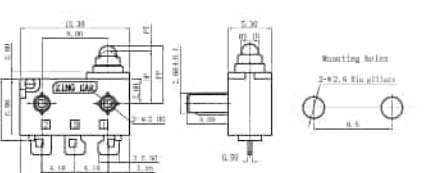
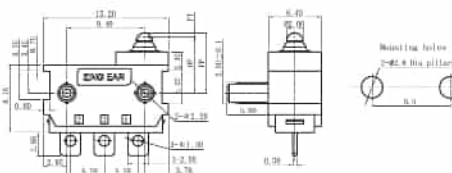
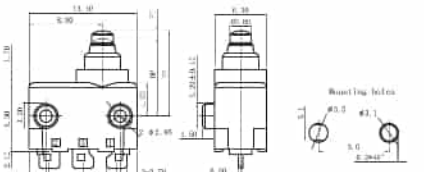
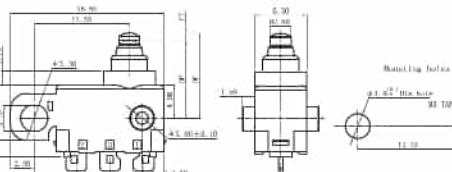
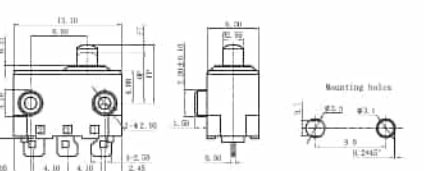
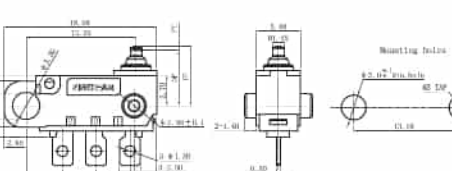


G3 系列微动开关订货型号指引 G3 Series Micro Switch Ordering Instruction

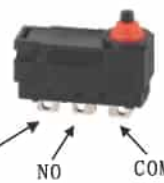

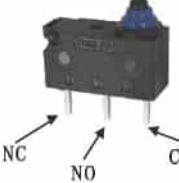


G3	03	130	S	00	A	
Switch Type 开关类别	Electrical Rating 额定负载	Operating Force at Pin Plunger Max 操作力(最大值) 数据在不带操作柄图得	Terminal Style 端子类型	Lever Type 操作柄类型		Circuit Code 电路形式
	EMEC: 0.1A 125/250VAC 48VDC; 3A 12VDC IF5 UL: 0.1A 125/250VAC 48VDC; 3A 12VDC	130 130gf Max. 使用 130g 弹簧	W Molded lead wires downwards. 带电线型号 底面出线	00 No lever 不带操作柄 Pin Plunger 柱式接竿	11 Simulated Roller 模拟滚轮手柄 (用于 A 型、A1 型、M3 型)	A SPDT 单极双投
			C Molded lead wires on left side (plunger side) 带电线型号 左面(接弹簧)出线	01 Leaf lever 水平手柄 (用于 A 型、A1 型、M3 型)	35# 35# lever 手柄 (用于 A 型、 A1 型、M3 型)	B SPST - NC 单极单投 常闭
			F Molded lead wires on right side (plunger side) 带电线型号 右面(远离弹簧)出线	02 Straight leaf lever 直手柄 (用于 A 型、A1 型、M3 型)	36# 36# lever 手柄 (用于 A 型、 A1 型、M3 型)	C SPST - NO 单极单投 常开
			S Solder terminals 焊盘端子	03 03# straight lever (for C type case) 03# 直手柄 (专用 C 型图壳)	37# 37# lever 手柄 (用于 A 型 、A1 型带 P1A 防水壳)	
			K Long solder terminals 长焊盘端子	04 04# lever D1# 手柄 (用于 A 型、 A1、M3 型壳)	38# 38# lever 38# 手柄 (用于 C1、C2 型)	
			N Screw-hole or Solder terminals 无孔焊盘或端子	05 Simulated Roller 模拟滚轮手柄 (用于 A 型 、A1 型、M3 型)	41# 41# lever 手柄 (用于 A 型、 A1 型、M3 型)	
			P Straight PCB terminals (0.6mm width) 直 PCB 端子 (0.6mm 宽, 长 3.5mm, 底座有凸台)	06 Straight leaf lever 直手柄 (用于 A1 型)	- Other 其他	
			R Right side PCB terminals 右侧 PCB 端子	09 Mini Simulated Roller lever 小模拟滚轮手柄 (用于 A 型、A1 型、M3 型)		
			L Left side PCB terminals 左侧 PCB 端子	10 10# lever 10# 手柄 (用于 A 型、 A1 型带 P1A 防水壳)		
			T Big Solder terminals 大焊盘端子 (端子孔径 1.6mm)	13# 13# lever (Only for T type case) 13# 手柄 (专用 T 型)		
			Z Left/Right straight PCB terminals 左右直 PCB 端子			
			A Left Side Fork type terminals 叉型左向端子	15 Upside down simulated roller lever 倒置滚轮手柄 (用于 A 型、 A1 型、M3 型)		
			B Right Side Fork type terminals 叉型右向端子	21# 21# straight lever (Only for C type case) 21# 直手柄 (专用 C 型图壳)		
			Q 2.5 type terminals 2.5型端子(端子宽 2.5mm, 长 度 7.5mm)	22# 22# lever 22# 手柄 (用于 A 型、 A1 型、M3 型)		
			D 2.5 type 2# terminals 2.5型 2# 端子(端子宽 2.5mm, 长度 5.15mm)	23# 23# lever 23# 手柄。(专用于 C1M3 图壳)		
				25# 25# lever 25# 手柄 (用于 A 型、 A1 型、M3 型)		
				28# 28# lever 28# 手柄 (用于 A 型、 A1 型、M3 型)		

I		A		E	A	280	TXXX
Shape and Posts 外形与定位柱		Posts Dimension 定位柱尺寸		AWG Type (for Wire type only) 线号 (仅适用于导线型)	AWG Number (for Wire type only) 线规 (仅适用于导线型)	Wires Length 线长	定制代码
1	A type no post A型无定位柱	28	A type no post A型方孔无柱	No soldered lead wires 不带电线	No soldered lead wires 不带电线	200mm length standard lead wires 200mm 标准线长	通用型
2	A type leftside posts A型左定位柱	29	A type leftside posts A型方孔左定位柱	18# 只适用于磁通山线开关 Only applicable for button switch	A UL1007	280 280mm length 280mm 长	TXX 客户要求定制, 在技术规格表, 定制代码为7位流水号, 例如: 1001
3	A type rightside posts A型右定位柱	30	A type rightside posts A型方孔右定位柱	20# 只适用于4+4型, 4+2型磁通山线开关, 4+2型磁通开关 Only applicable for 4+4 and 4+2 type magnet wire switch	C UL1430	Other 其他	Other 其他
4	B type no post B型无定位柱	31	A type two sides posts A型方孔双侧定位柱	F 22#	B (UL106)		
5	B type left posts B型左定位柱	47	C1M3 type posts C1M3 型定位柱	G 24#	F AVSS		
6	B type rightside posts B型右定位柱	48	A2 type posts A2型无定位柱 (用于带线开关)	H 30#	F FLRY A		
7	M3 type posts M3 型定位柱	49	A2 type posts A2型左定位柱 (用于带线开关)	I 28#	Other 其他		
8	A type two sides posts A型双侧定位柱	50	A2 type posts A2型右定位柱 (用于带线开关)	J Other 其他			
9	B type two sides posts B型双侧定位柱	51	A2 type posts A2型左定位柱 (用于带线开关)				
12	C1 type two sides posts C1型双侧定位柱	52	A2 type posts A2型右定位柱 (用于带线开关)				
13	C1 type no post C1型无定位柱	53	A2 type posts A2型左定位柱 (用于不带线开关)				
14	C1 type left posts C1型左定位柱	54	A2 type posts A2型右定位柱 (用于不带线开关)				
16	C1 type right posts C1型右定位柱	55	A2 type posts A2型左定位柱 (用于不带线开关)				
18	D1 type no post D1型无定位柱		Other 其他				
17	D1 type leftside posts D1型左定位柱						
18	D1 type rightside posts D1型右定位柱						
19	D1 type two sides posts D1型双侧定位柱						

■基本型安装尺寸及操作特性图/Basic Mounting Dimensions and Operating Characteristics

A外形/A shape	A1外形/A1 shape
	
A2外形/A2 shape	B外形/B shape
	
C1外形/C1 shape	C1M3外形/C1M3 shape
	
D1外形/D1 shape	M3外形/M3 shape
	

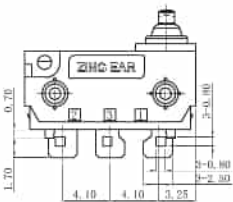
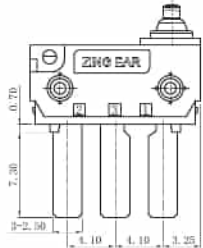
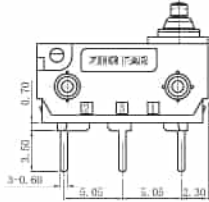
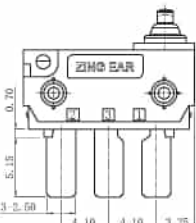
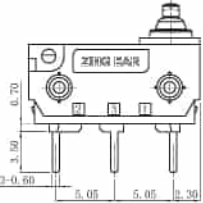
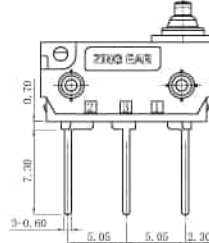
■外形与定位柱/Shape and Posts

A 型基本外形 A type basic shape	A1 型基本外形 A1 type basic shape	A2 型基本外形 A2 type basic shape	B 型基本外形 B type basic shape	M3 型基本外形 M3 type basic shape
				

■ 外形与定位柱/Shape and Posts

C1 型基本外形 C1 type basic shape	D1 型基本外形 D1 type basic shape
 <p>NC NO COM</p> <p>C1型 C1 type</p>	 <p>NC NO COM</p> <p>D1型 D1 type</p>
C1M3 型 C1M3 Shape	T 型基本外形 T type basic shape
	

■ 开关端子类型(可定制)/Switch Terminal Type (Can be customized)

S型/S Type	Q型/Q Type	K型/K Type
 <p>Dimensions: 0.70, 1.70, 4.10, 4.10, 3.25, 2.0, 3.4, 1.00, 2.30</p>	 <p>Dimensions: 0.70, 7.30, 2-2.50, 4.10, 4.10, 3.25</p>	 <p>Dimensions: 0.70, 3.60, 3-0.60, 5.05, 5.05, 3.30</p>
D型/D Type	P型/P Type	J型/J Type
 <p>Dimensions: 0.70, 5.15, 3-2.60, 4.10, 4.10, 3.25</p>	 <p>Dimensions: 0.70, 3.50, 3-0.60, 5.05, 5.05, 2.30</p>	 <p>Dimensions: 0.70, 7.30, 3-0.60, 5.05, 5.05, 3.30</p>

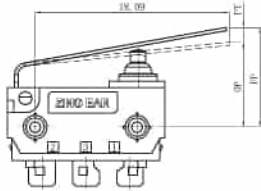
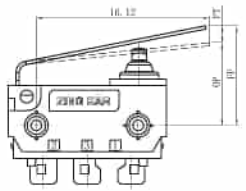
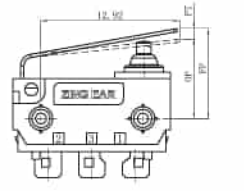
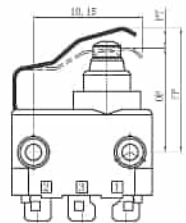
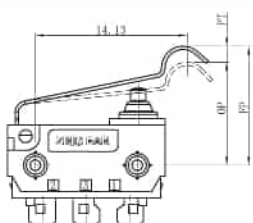
P1型/P1 Type	I型/I Type	R型/R Type
L型/L Type	A型/A Type	B型/B Type

■ 开关出线类型/Wires Leads Type

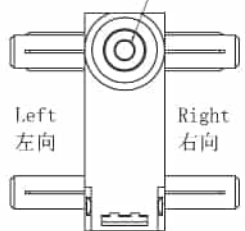
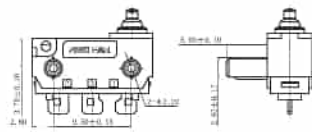
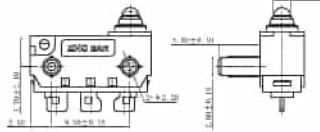
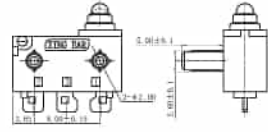
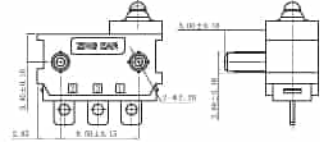
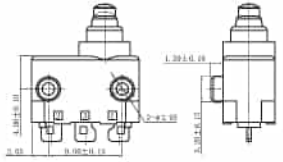
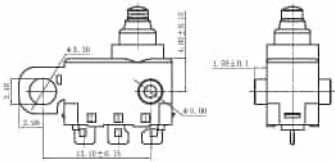
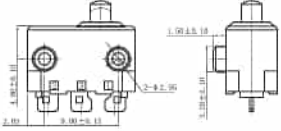
底面出线/Wires leads to bottom	按拳侧出线/Wires leads to plunger side
<p>COM:AVSS 0.3 mm² BLACK(黑色) NO:AVSS 0.3 mm² BLUE(蓝色) NC:AVSS 0.3 mm² GRAY(灰色)</p>	<p>COM:AVSS 0.3 mm² BLACK(黑色) NO:AVSS 0.3 mm² BLUE(蓝色) NC:AVSS 0.3 mm² GRAY(灰色)</p>
	远离按拳侧出线/Wires leads to opposite to plunger side
	<p>COM:AVSS 0.3 mm² BLACK(黑色) NO:AVSS 0.3 mm² BLUE(蓝色) NC:AVSS 0.3 mm² GRAY(灰色)</p>

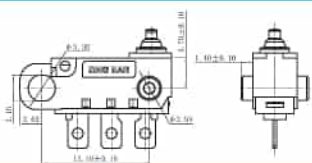
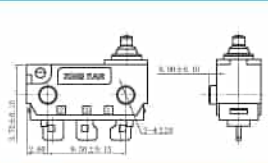
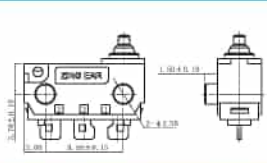

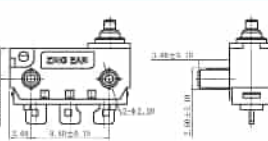
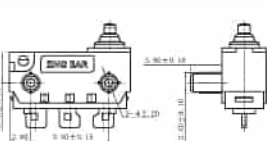
■开关手柄类型(可定制) / Switch Lever Type (Can be customized)

无手柄/Without lever	01#手柄/01# Lever	02#手柄/02# Lever
03#手柄/03# Lever	04#手柄/04# Lever	05#手柄/05# Lever
09#手柄/09# Lever	37#手柄/37# Lever	15#手柄/15# Lever
22#手柄/22#Lever	23#手柄/23#Lever	25#手柄/25#Lever

28#手柄/28#Lever	35#手柄/35#Lever	36#手柄/36#Lever
		
38#手柄/38#Lever	41#手柄/41#Lever	
		

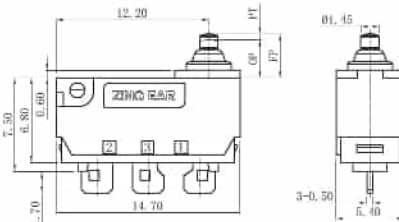
■ 开关定位柱类型(可定制) / Posts Type (Can be customized)

A外形标准型:Ø2.60X5.00mm定位柱 Ø2.60X5.00mm posts	A1外形标准型:Ø2.60X5.00mm定位柱 Ø2.60X5.00mm posts	<p>■ 定位柱方向识别 Posts Identification</p> <p>从开关的顶部看来区分 左右向 Plunger Position 按垫位置</p> 
		
A2外形标准型:Ø2.60X5.00mm定位柱 Ø2.60X5.00mm posts	B外形标准型:Ø2.60X5.00mm定位柱 Ø2.60X5.00mm posts	
		
C1: Ø2.95X1.50mm定位柱 Ø2.95X1.50mm posts	C1M3: Ø3.00X1.50mm定位柱 Ø3.00X1.50mm posts	D1: Ø2.95X1.50mm定位柱 Ø2.95X1.50mm posts
		

M3: Ø2.95X1.50mm定位柱 Ø2.95X1.50mm posts	A外形的A型: Ø2.20X0.90mm定位柱 Ø2.20X0.90mm posts	A外形的B型: Ø2.50X1.50mm定位柱 Ø2.50X1.50mm posts
		
A外形的C型: Ø2.60X2.50mm定位柱 Ø2.60X2.50mm posts	A外形的F型: Ø2.60X3.80mm定位柱 Ø2.60X3.80mm posts	A外形的H型: Ø2.60X2.00mm定位柱 Ø2.60X2.00mm posts
		

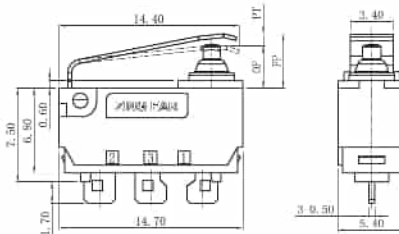
外形尺寸和操作特性/Dimensions and Operating Characteristics

◆ G3□□-□□□S00A1



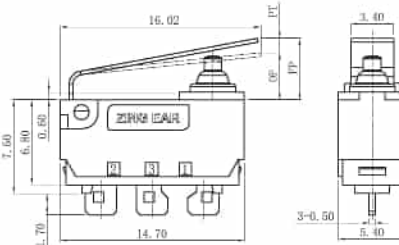
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	3.65 \pm 0.2

◆ G3□□-□□□S01A1



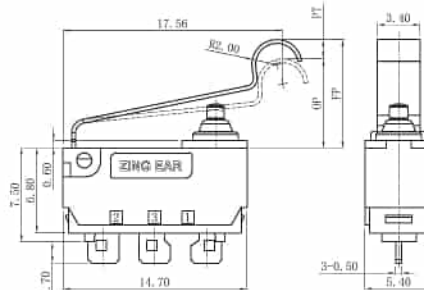
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	220	30	3	0.8	0.5	5.7
						3.4 \pm 0.5

◆ 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 \pm 0.6

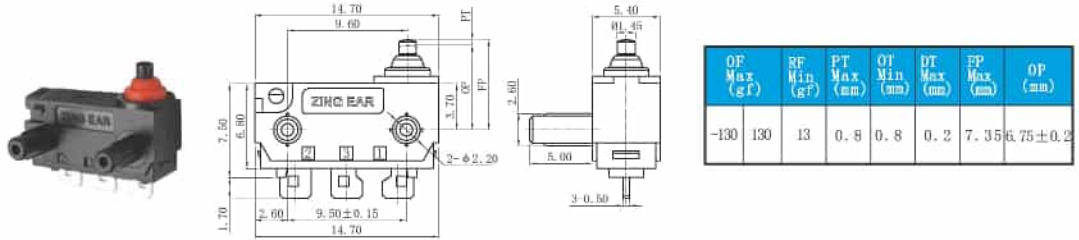
◆ G3□□-□□□S05A1



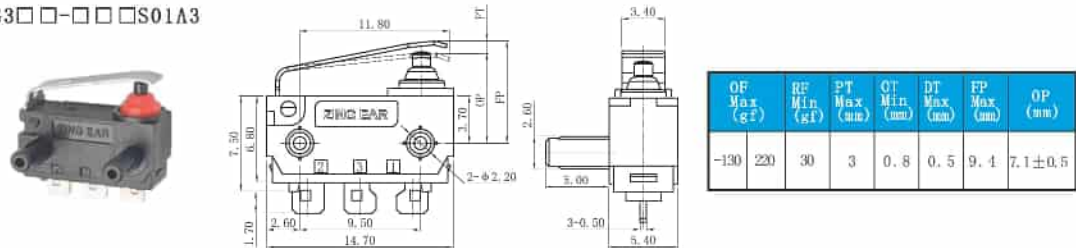
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	180	20	3.8	1.5	0.7	9.8
						7.0 \pm 0.7

■外形尺寸和操作特性/Dimensions and Operating Characteristics

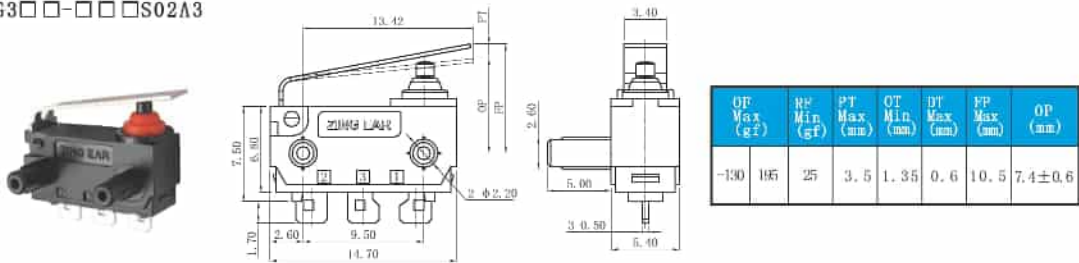
◆ G3□□-□□□S00A3



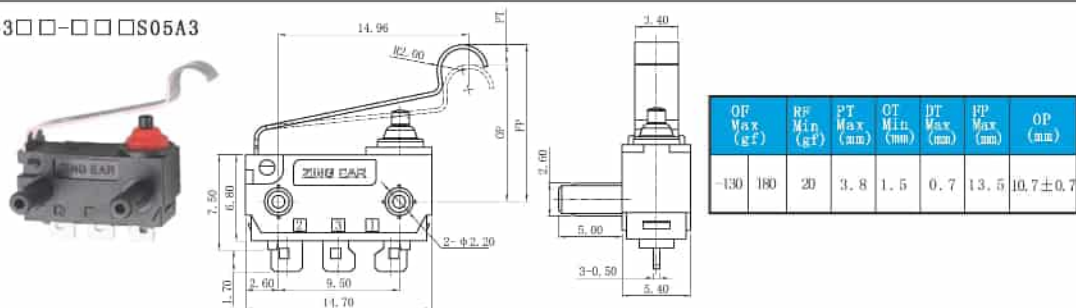
◆ G3□□-□□□S01A3



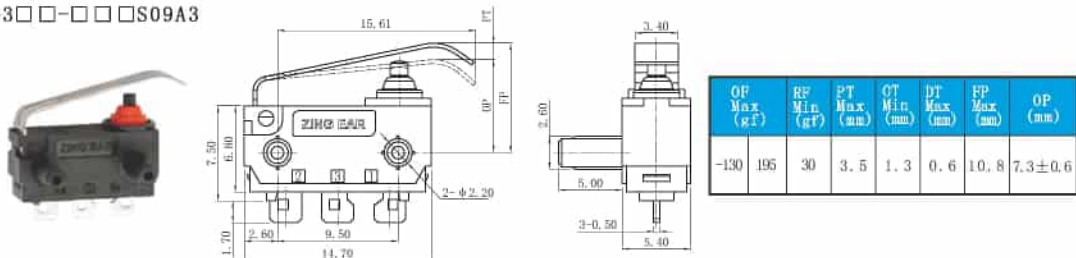
◆ G3□□-□□□S02A3



◆ G3□□-□□□S05A3

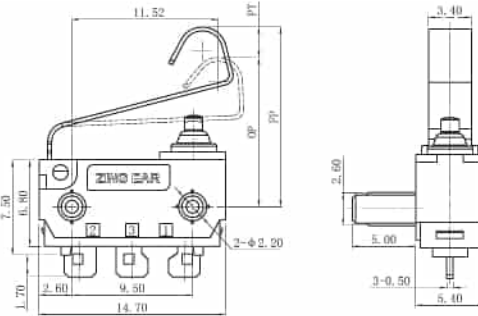


◆ G3□□-□□□S09A3



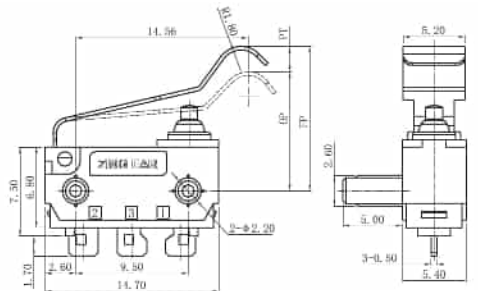
■外形尺寸和操作特性/Dimensions and Operating Characteristics

◆G3□□-□□□P15A3



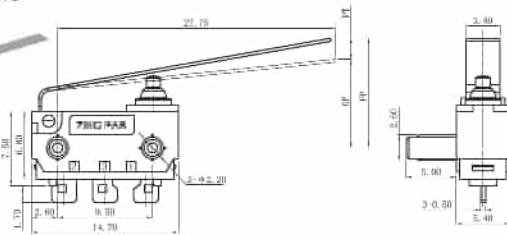
OP Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	280	30	4	1.5	0.7	15.9
						11.9±0.7

◆G3□□-□□□P22A3



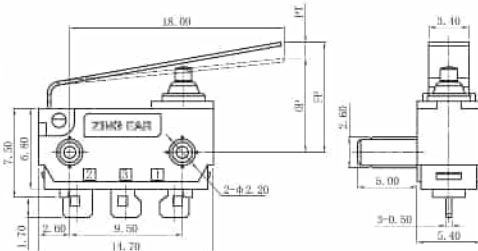
OP Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	200	20	3.8	1.5	0.7	13.8
						10.0±0.7

◆G3□□-□□□S25A3



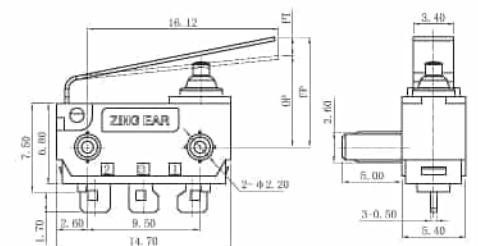
OP Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	150	25	5.5	1.35	1.5	13
						7.50±1.2

◆G3□□-□□□S28A3



OP 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

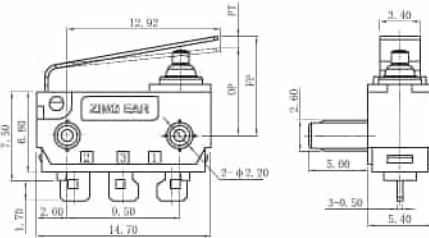
◆G3□□-□□□S35A3



OP 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

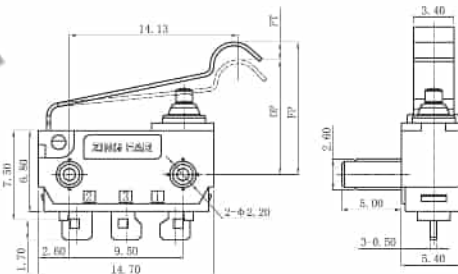
■外形尺寸和操作特性/Dimensions and Operating Characteristics

◆G3□□-□□□S36A3



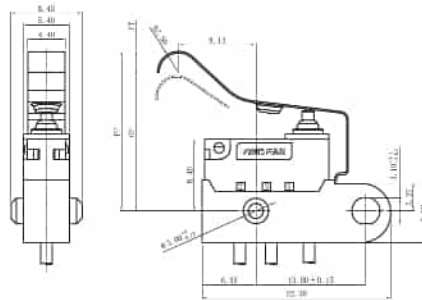
OF Max (gF)	RF Min (gF)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	200	25	3.4	1.3	0.6	10.6	7.2±0.6

◆G3□□-□□□P41A3



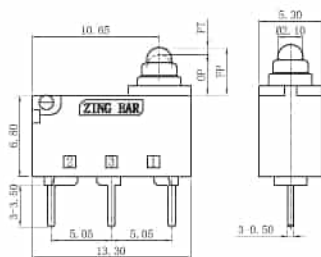
OF Max (gF)	RF Min (gF)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
130	200	50	3.5	1.2	0.6	13	9.5±0.7

◆G3□□-□□□E37C1



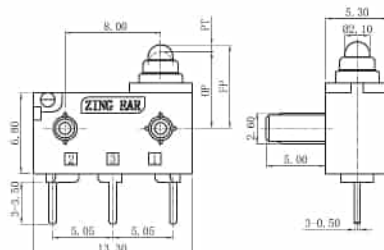
OF Max (gF)	RF Min (gF)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	100	25	6	1.5	2	21	15±2.0

◆G3□□-□□□S00A52



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

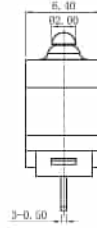
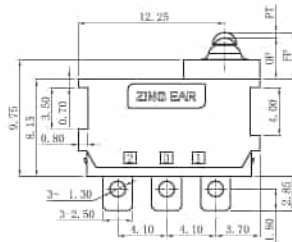
◆G3□□-□□□P00A53



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

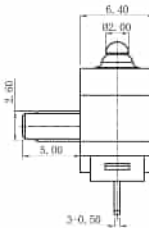
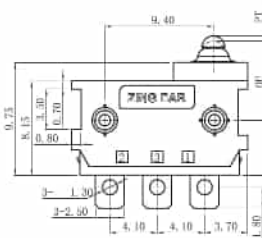
■外形尺寸和操作特性/Dimensions and Operating Characteristics

◆G3□□-□□□K00A4



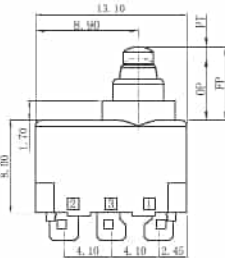
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	3.45±0.2

◆G3□□-□□□K00A6



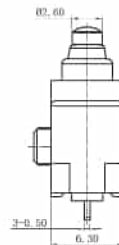
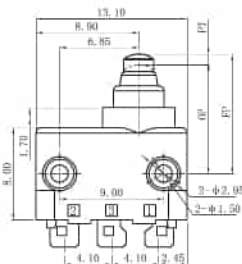
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	6.85±0.2

◆G3□□-□□□S00A13



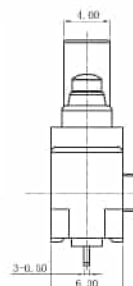
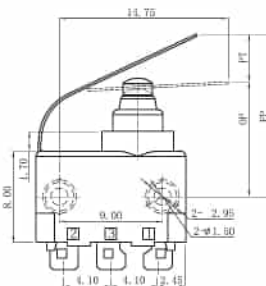
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	180	20	1.5	0.5	0.25	6.35	5.4±0.3

◆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

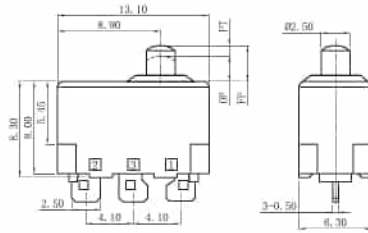
◆G3□□-□□□S03A15



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

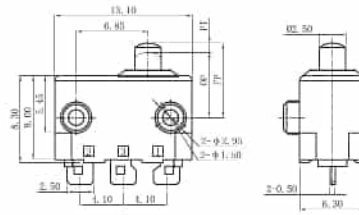
■外形尺寸和操作特性/Dimensions and Operating Characteristics

◆G3□□-□□□S00A16



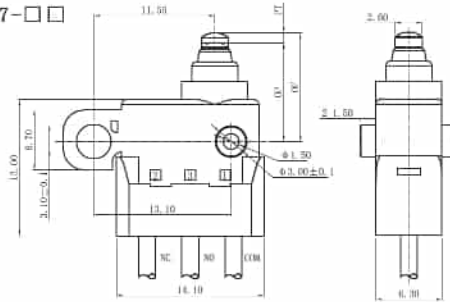
OF Max (gF)	RF Min (gF)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	130	8	1.5	0.5	0.25	3.3	2.2±0.3

◆G3□□-□□□S00A18



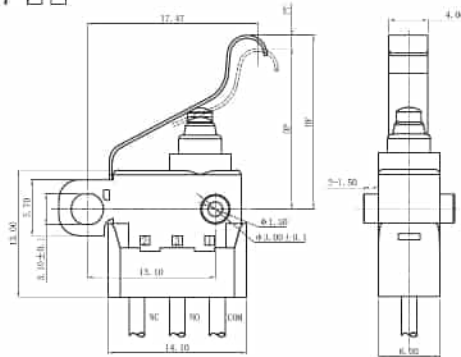
OF Max (gF)	RF Min (gF)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	130	8	1.5	0.5	0.25	7.3	6.2±0.3

◆G3□□-□□□E00A47-□□



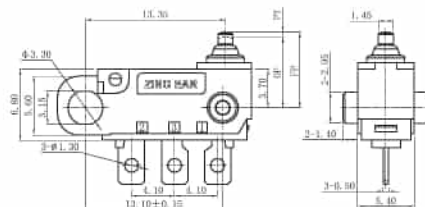
OF Max (gF)	RF Min (gF)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	TTP
130	200	20	1.5	0.5	0.25	10.49	8.4

◆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	20	16.45±1.5	14.9

◆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