

# G303 Series

## Mini 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 Designs

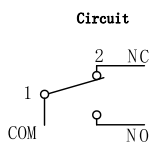
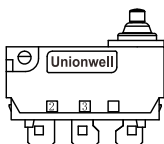
### ■ Application

- ◆ Car
- ◆ Electric Tooth Brush
- ◆ Air-Conditioner
- ◆ Toys
- ◆ Communication
- ◆ Shared Bicycle

### ■ Parameters

<b>Rating</b>		0.1A,125/250VAC;3A/12VDC;0.1A/48VDC; $\mu$ 1E5
<b>Operatng Frequency</b>	<b>Electrical</b>	0.1A-120cycles/minute; 3A-10~30 cycles/minute
	<b>Mechanical</b>	120 Cycles/minute
<b>Contact Resistance (Initiative)</b>		100m $\Omega$ Max (without wire type)
<b>Insulation Resistance (at 500VDC)</b>		100m $\Omega$ Min
<b>Vibration Durability</b>		10~55Hz,move 0.75mm(p-p)
<b>Dielectric Strength</b>		500VAC (50~60Hz)
<b>Operating Temperature</b>		-40°C~+85°C
<b>Operating Humidity</b>		85% RH Max
<b>Service Life</b>	<b>Electrical</b>	Min.100,000 cycles(Depend on part NO.)
	<b>Mechanical</b>	Min.500,000 cycles

### ■ Circuit



## G3 Series Micro Switch Ordering Instruction

G3	03	130	S	00		A	1	A	E	A	280	T00X	
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)	Wire length	Custom code
03	ENEC:0.1A 125/250VAC 48VDC:3A12VDC u IES UL: 0.1A 125/250VAC 48VDC:3A 12VDC	130g Max, employ 130# Spring	E Molded lead wires downwards.	00 No lever Pin Plunger	31 Simulated Roller Use for A type, A1 type, M3 type	A SPDT	1 A type no post	28 A1 type no post	Standard posts: 1. A type A1 type A2 type B type posts 2.60mmx5.0mm 2. M3 type posts 2.95mmX1.4mm 3. C1 type D1 type posts 2.85mmX1.5mm 4. C1M3 type posts 3.0mmX1.5mm	No molded lead wires	No molded lead wires	300mm length standard lead wires	General Type
G	Molded lead wires on left side(plunger side)		01 Leaf lever Use for A type, A1 type, M3 type	35# lever Use for A type, A1 type, M3 type)	B SPST+N/C	2 A type left side posts	29 A1 type left side posts	C 2.2mmX0.9mm posts. (Use for A type, A1 type)	15# Only applicable to bottom outlet switch	A UL1007	280	280mm length	T00X Customized according to customer requirements, informed in the technician begin, the customer code is T+serial number, such as T001
F	Molded lead wires on right side(plunger side)		02 Straight Leaf lever	36# lever Use for A type, A1 type, M3 type)	C SPST+N/O	3 A type right side posts	30 A1 type right side posts	C 2.5mmX1.5mm posts. (Use for A type, A1 type, A2 type B type)	20# Only applicable to A type A1 type M3 type bottom outlet switch C type and D type of the two wire switch	C UL1430	---	Other	Other
S	Solder terminals		03#straight lever(Only for C type case)	37# lever Use for A type, A1 type with PHA waterproof case)		4 B type no post	31 A1 type two sides posts	C 2.6mmX2.5mm posts. (Use for A type, A1 type, A2 type)	F 22#	D UL1061			
K	Long solder terminals		04# lever (Use for A type, A1 type, M3 type)	38#lever Use for C1, C2 type)		5 B type left posts	47 C1M3 type posts	F 2.60mmX3.8mm posts. (Use for A type, A1 type)	G 24#	F AVSS			
N	None-hole short Solder terminals		05 Simulated Roller (Use for A type, A1 type, M3 type)	41# lever Use for A type, A1 type, M3 type)		6 B type right side posts	46 A2 type posts For use with wire switch	H 2.6X2.0mm posts. (Use for A type, A1 type)	H 26#	L FLRI-A			
P	Straight PCBterminals (0.6mm width length 0.5mm.) The base has a boss		06 Straight leaf lever (Use for A2 type)	- Other		7 M3 type posts	49 A2 type left posts For use with wire switch	K 2.85X5.0mm posts. (Use for C1 type)	I 28#	---	Other		
R	Right side PCBterminals		09 Mini Simulated Roller lever (Use for A type, A1 type, M3 type)			8 A type two sides posts	50 A2 type right posts For use with wire switch	J 2.6X1.4mm posts. (Columns without reinforcement) (Use for A2 type)	---	Other			
L	Left side PCBterminals		10# lever (Use for A type, A1 type with PHA waterproof case)			9 B type two sides posts	51 A2 type Double location column For use with wire switch	---	Other				
J	Big Solder terminals		13#lever(Only for T type case)			12 C1 type two sides posts	52 A2 type no posts For use with wire switch						
Y	Left Right straight PCB terminals		18 Upside down simulated roller lever (Use for A type, A1 type, M3 type)			13 C1 type no post	53 A2 type left posts For use with wire switch						
A	Left Side Fork type terminals		21#straight lever(Only for C type case)			14 C1 type left posts	54 A2 type right posts For use with wire switch						
B	Right Side Fork type terminals		22# lever (Use for A type, A1 type, M3 type)			15 C1 type right posts	55 A2 type Double location column For use with wire switch						
Q	2.5 type terminals Terminal wide 2.5mm length 7.5mm)		23# lever Only for C1M3 type case)			16 D1 type no post	---	Other					
D	2.5 type 2#terminals(Terminal Wide 2.5mm length 5.15mm)		25# lever (Use for A type, A1 type, M3 type)			17 D1 type left side posts							
			28# lever (Use for A type, A1 type, M3 type)			18 D1 type right side posts							
						19 D1 type two sides posts							


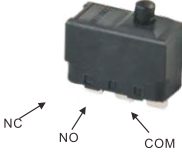

**Basic Mounting Dimensions and Operating Characteristics**

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

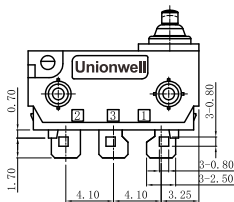
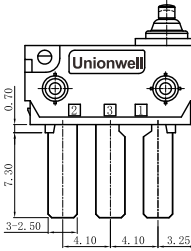
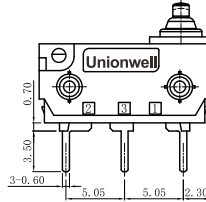
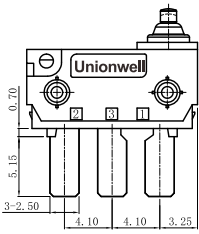
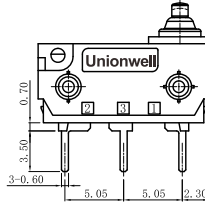
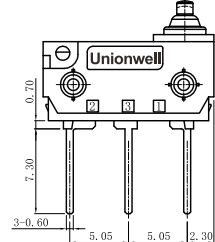
**Shape and Posts**

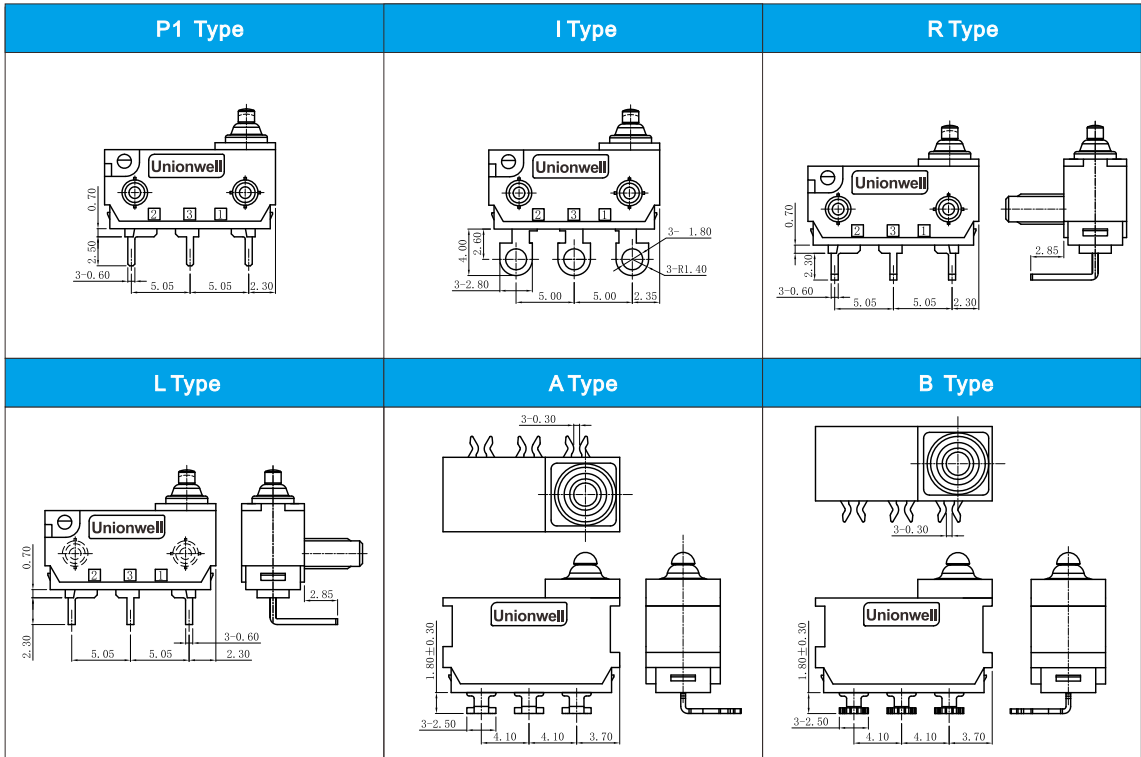
A type basic shape	A1 type basic shape	A2 type basic shape	B type basic shape	M3 type basic shape

**Shape and Posts**

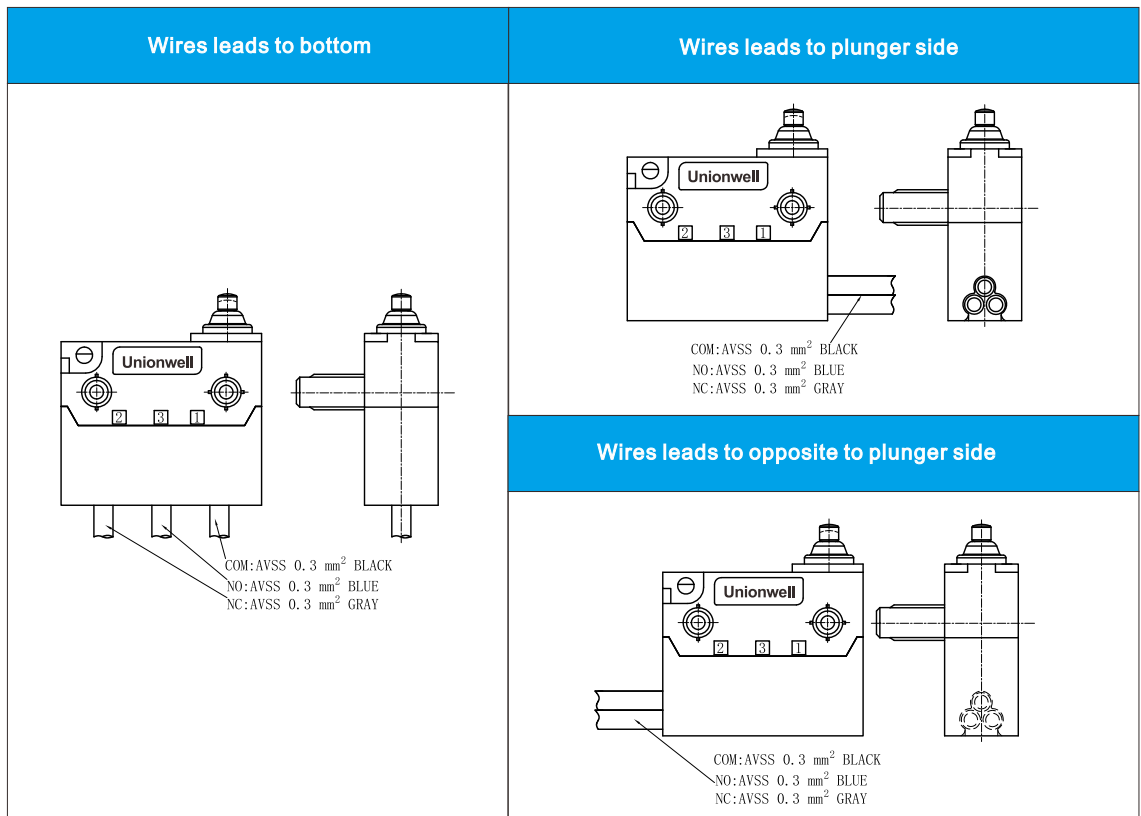
C1 type basic shape	D1 type basic shape
	
C1M3 Shape	
	

**Switch Terminal Type (Can be customized)**

S Type	Q Type	K Type
		
D Type	P Type	J Type
		



**Wires Leads Type**



**Switch Lever Type (Can be customized)**

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

<b>28#Lever</b>	<b>35#Lever</b>	<b>36#Lever</b>
<b>38#Lever</b>	<b>41#Lever</b>	

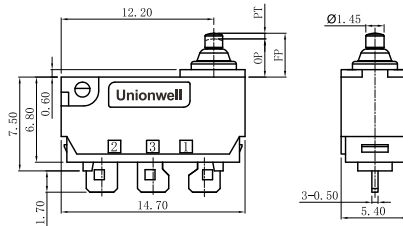
**■ Posts Type (Can be customized)**

<b>A shape standard type: Ø2.60X5.00mm posts</b>	<b>A1 shape standard type: Ø2.60X5.00mm posts</b>	<p><b>■ Posts Identification</b></p> <p>Plunger Position</p> <p>Left Right</p>
<b>A2 shape standard type: Ø2.60X5.00mm posts</b>	<b>B shape standard type: Ø2.60X5.00mm posts</b>	
<b>C1:Ø2.95X1.50mm posts</b>	<b>C1M3:Ø3.00X1.50mm posts</b>	<b>D1:Ø2.95X1.50mm posts</b>

M3 shape: Ø 2.95X1.50mm posts	A shape A type: Ø 2.20X0.90mm posts	A shape B type: Ø 2.50X1.50mm posts
A shape C type: Ø2.60X2.50 mm posts	A shape F type: Ø2.60X3.80mm posts	A shape H type: Ø 2.60X2.00mm posts

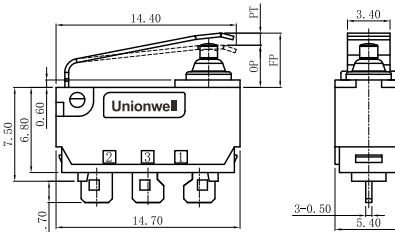
**Dimensions and Operating Characteristics**

◆ G3□□-□□□S00A1



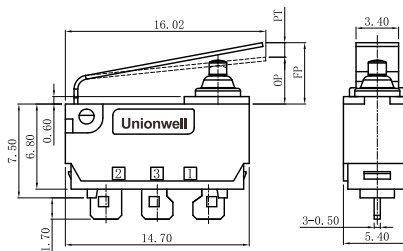
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	3.65

□ G3□□-□□□S01A1



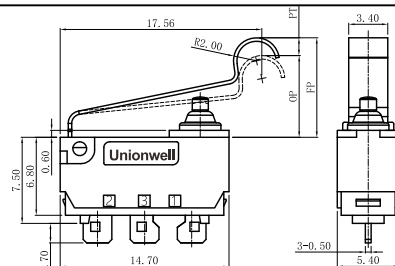
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-130	220	30	3	0.8	0.5	5.7

◆ 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

◆ G3□□-□□□S05A1

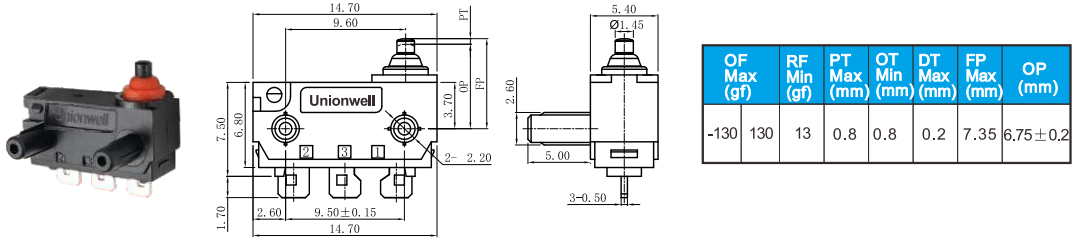


OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	180	20	3.8	1.5	0.7	9.8

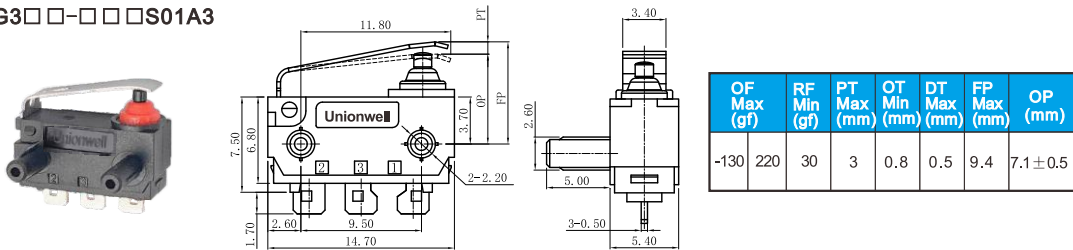


## ■ Dimensions and Operating Characteristics

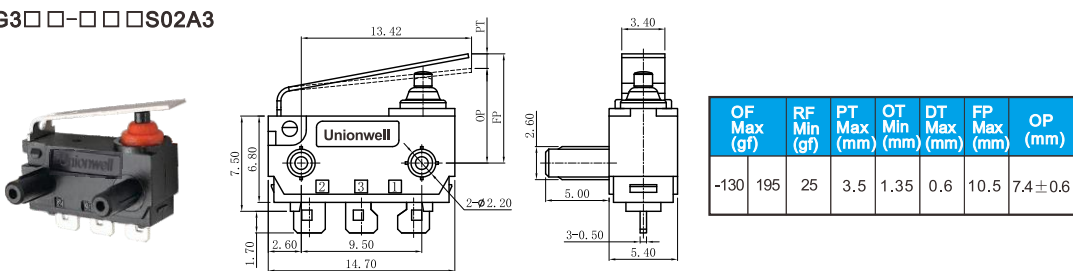
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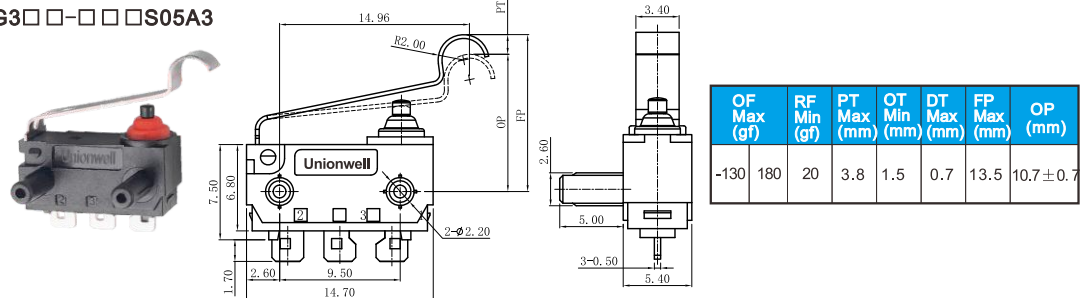
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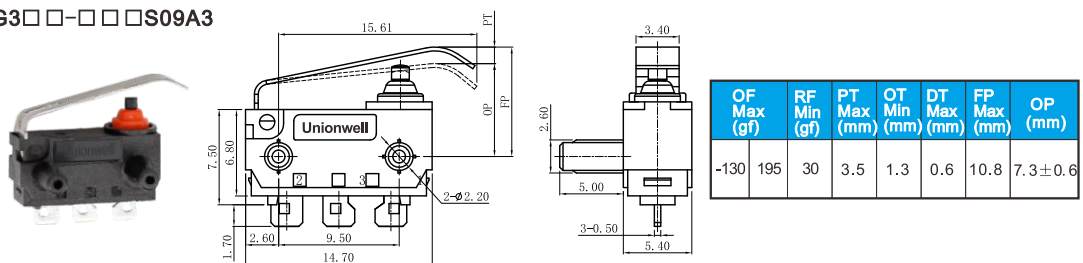
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### ◆ G3□□-□□□S05A3

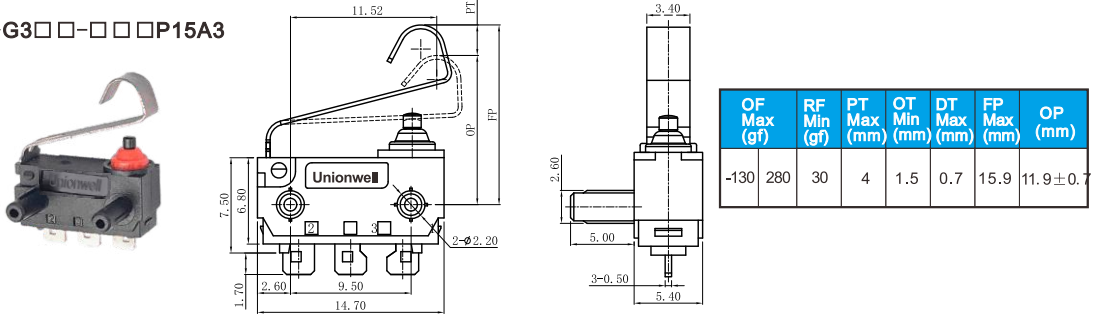


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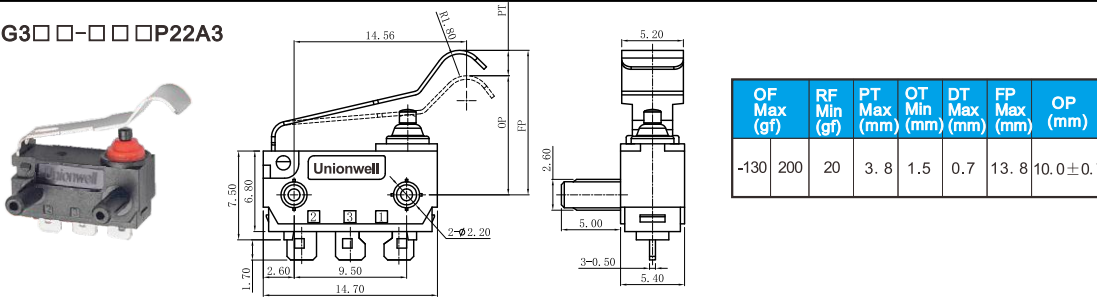


**Dimensions and Operating Characteristics**

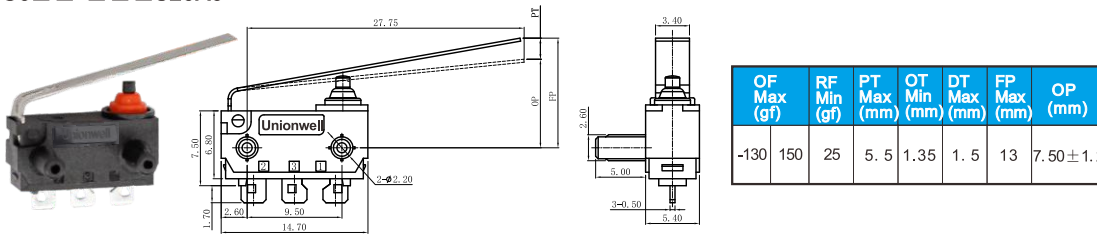
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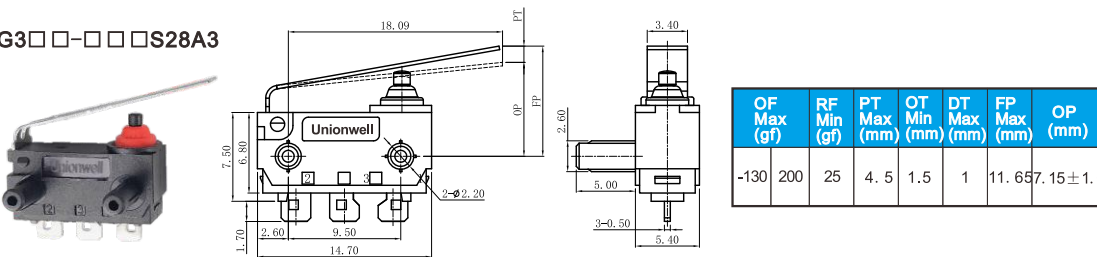
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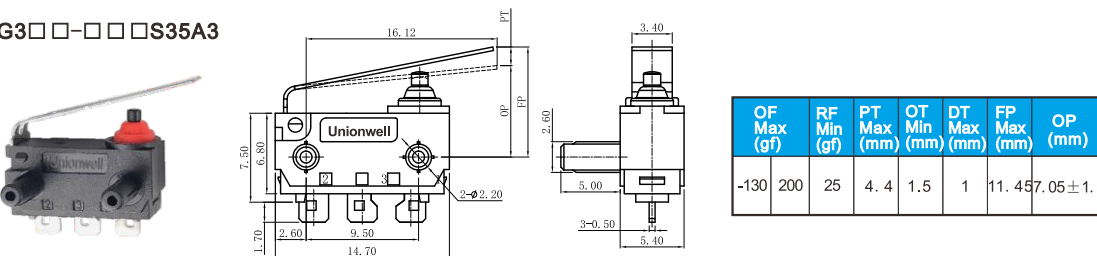
**◆G3□□-□□□S25A3**



**◆G3□□-□□□S28A3**



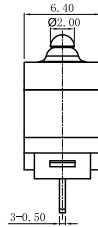
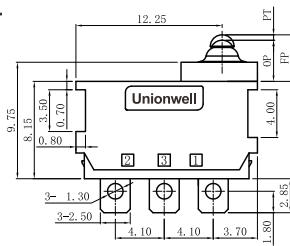
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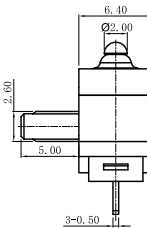
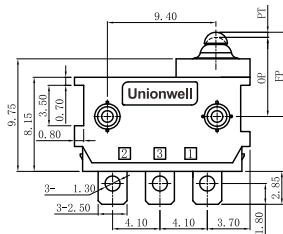
**■ Dimensions and Operating Characteristics**

◆ G3□□-□□□K00A4



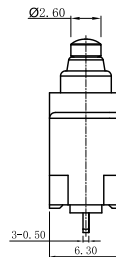
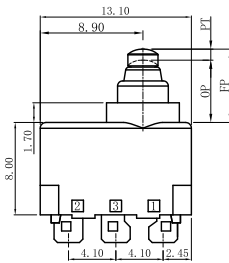
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◆ G3□□-□□□K00A6



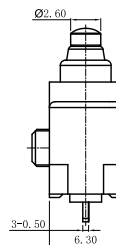
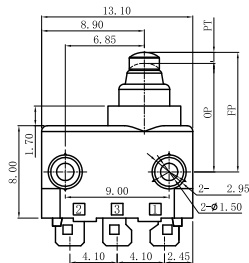
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-130	130	13	0.8	0.8	0.2	7.5	6.85±0.2

◆ G3□□-□□□S00A13



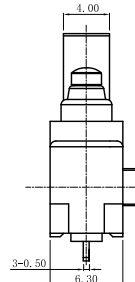
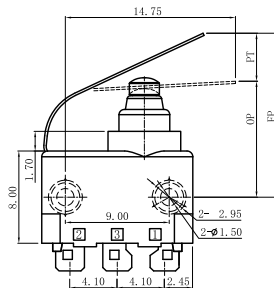
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-130	180	20	1.5	0.5	0.25	6.35	5.4±0.3

◆ 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

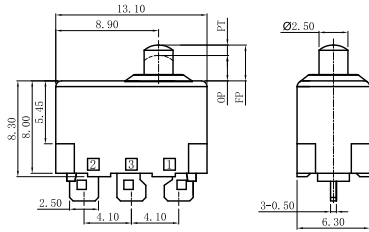
◆ G3□□-□□□S03A15



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

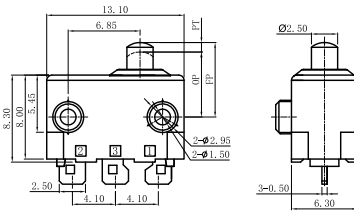
## Dimensions and Operating Characteristics

### ◆G3□□-□□□S00A16



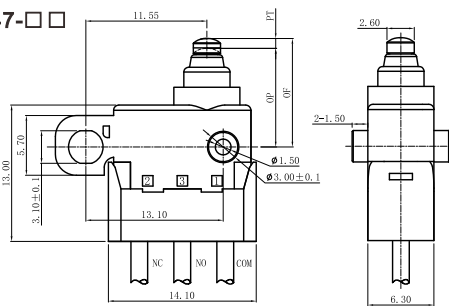
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-130	130	8	1.5	0.5	0.25	3.3	
							2.2±0.3

### ◆G3□□-□□□S00A18



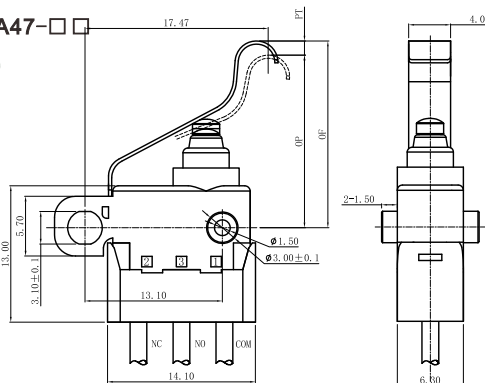
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	130	8	1.5	0.5	0.25	7.3	
							6.2±0.3

### ◆G3□□-□□□E00A47-□□



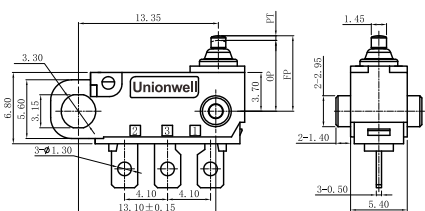
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	TTP
-130	200	20	1.5	0.5	0.25	10.4	8.4
							9.4±0.3

### ◆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