

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

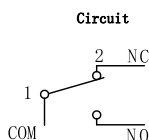
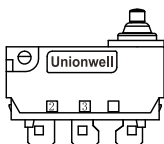
■ Application

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

■ Parameters

Rating		0.1A,125/250VAC;3A/12VDC;0.1A/48VDC; μ 1E5
Operatng Frequency	Electrical	0.1A-120cycles/minute; 3A-10~30 cycles/minute
	Mechanical	120 Cycles/minute
Contact Resistance (Initiative)		100m Ω Max (without wire type)
Insulation Resistance (at 500VDC)		100m Ω Min
Vibration Durability		10~55Hz,move 0.75mm(p-p)
Dielectric Strength		500VAC (50~60Hz)
Operating Temperature		-40°C~+85°C
Operating Humidity		85% RH Max
Service Life	Electrical	Min.100,000 cycles(Depend on part NO.)
	Mechanical	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	130 133gf 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+NC	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	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+NO	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)	25# 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 FLRY-A		
P	Straight PCBterminals (0.6mm width,length3.5mm.) The base has a boss			06 Straight 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						


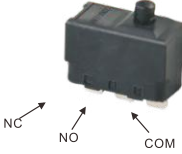

Basic Mounting Dimensions and Operating Characteristics

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

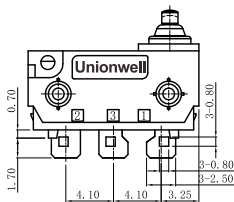
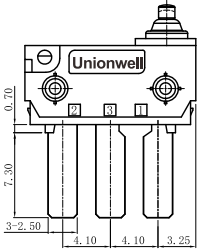
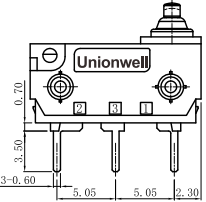
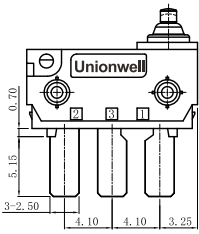
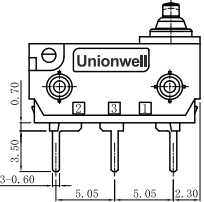
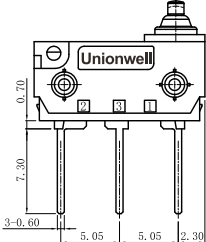
Shape and Posts

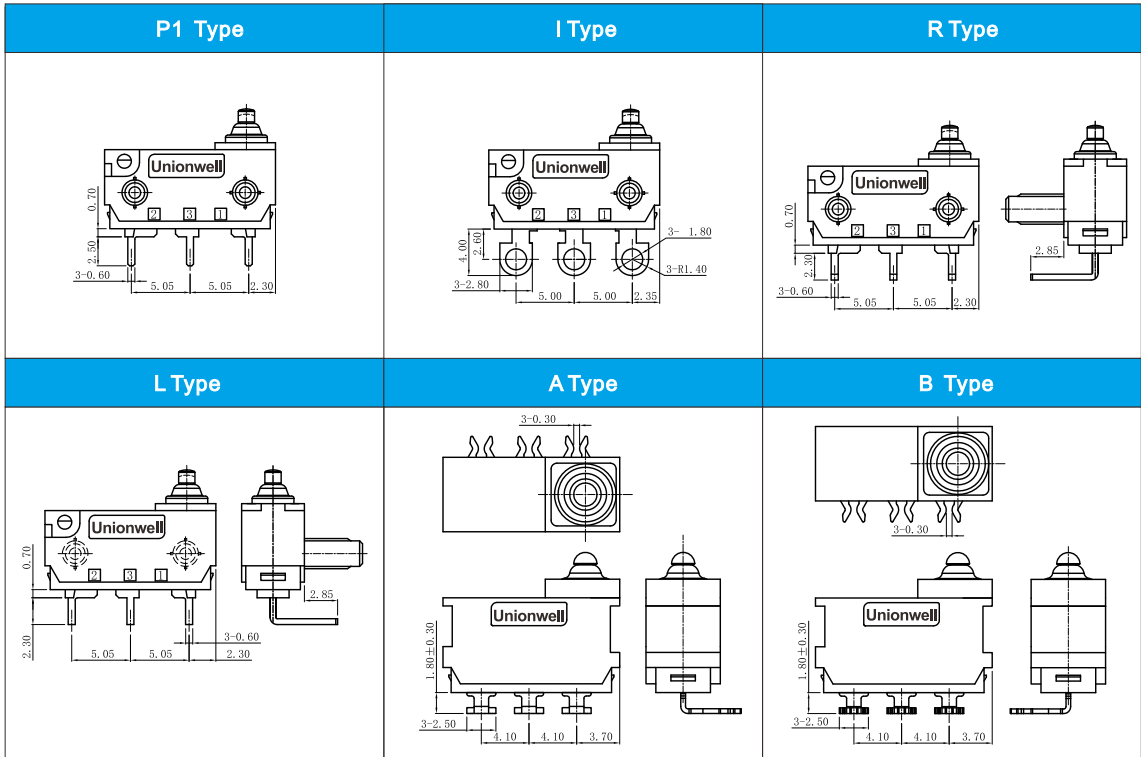
A type basic shape	A1 type basic shape	A2 type basic shape	B type basic shape	M3 type basic shape

■ Shape and Posts

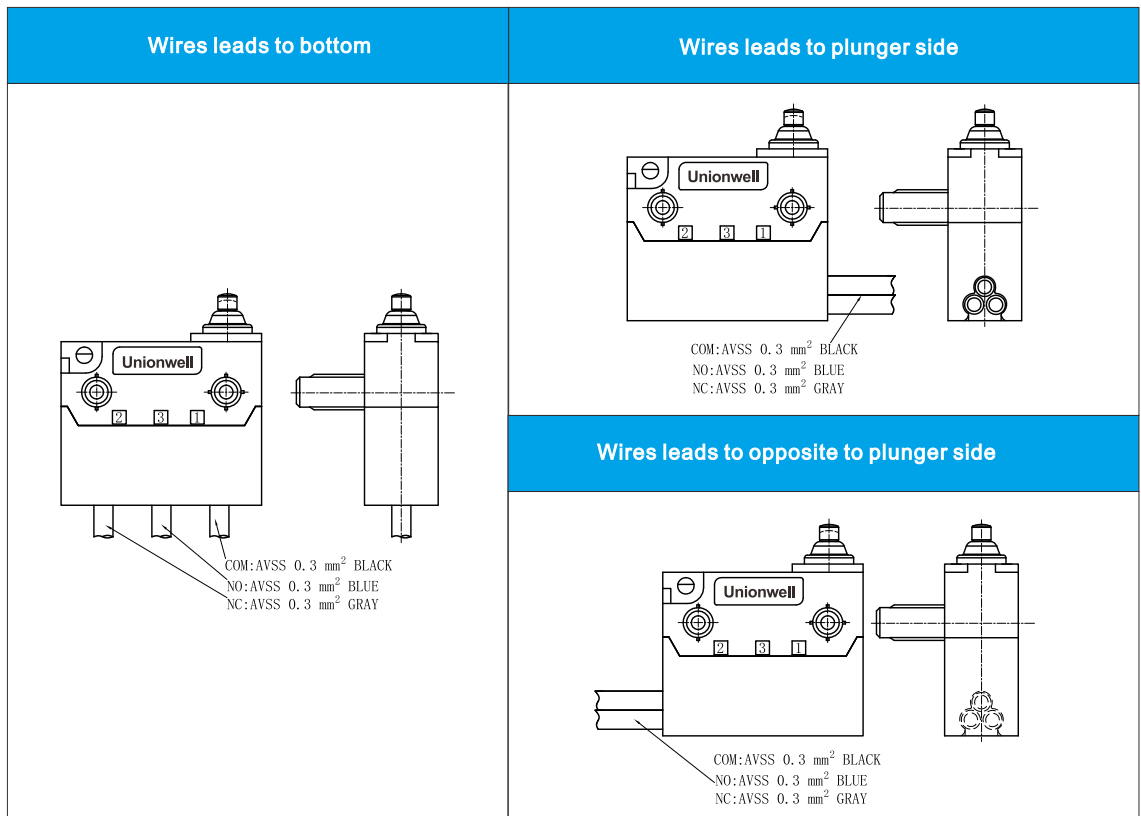
C1 type basic shape	D1 type basic shape
	
C1M3 Shape	
	

■ 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

28#Lever	35#Lever	36#Lever
38#Lever	41#Lever	

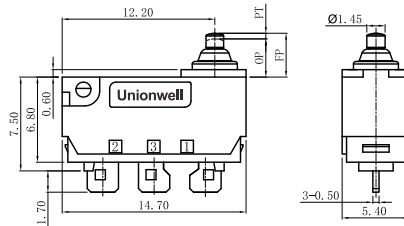
■ Posts Type (Can be customized)

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

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

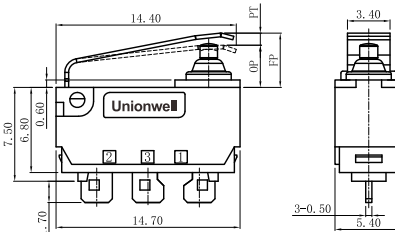
■ Dimensions and Operating Characteristics

◆ G3□□-□□□S00A1



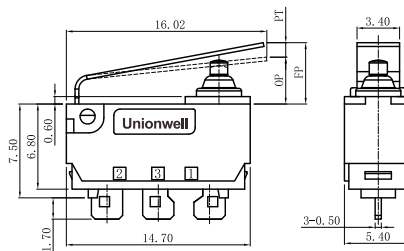
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	130	13	0.8	0.8	0.2	3.65±0.2

□ G3□□-□□□S01A1



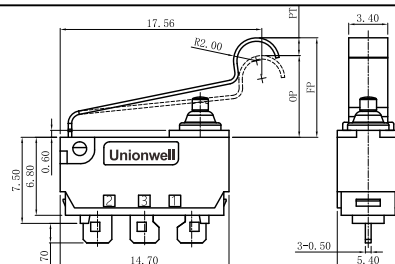
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	220	30	3	0.8	0.5	5.7	3.4±0.5

◆ 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

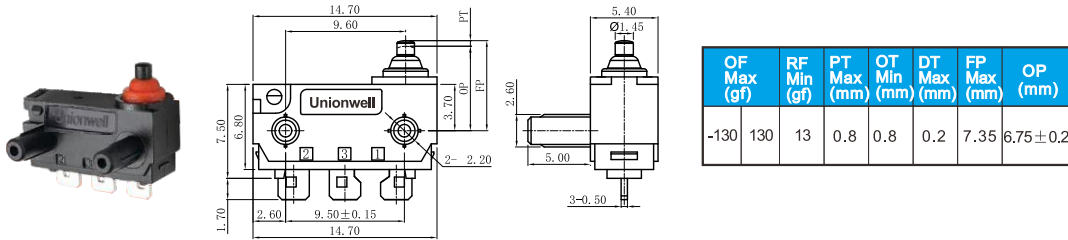
◆ G3□□-□□□S05A1



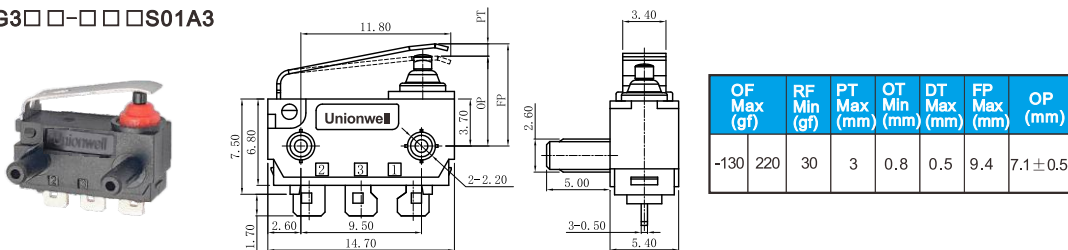
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	180	20	3.8	1.5	0.7	9.8	7.0±0.7

■ Dimensions and Operating Characteristics

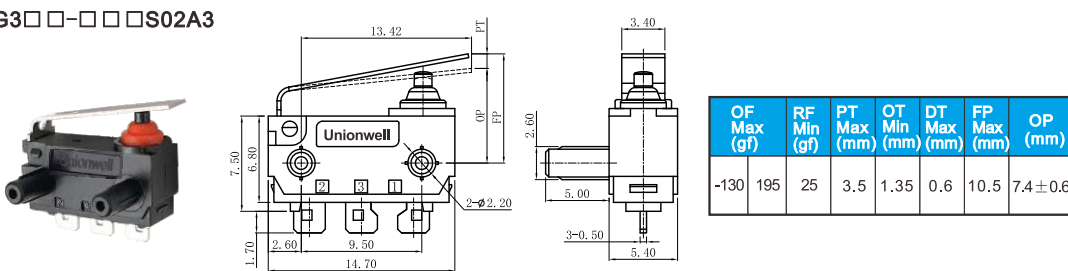
◆ G3□□-□□□S00A3



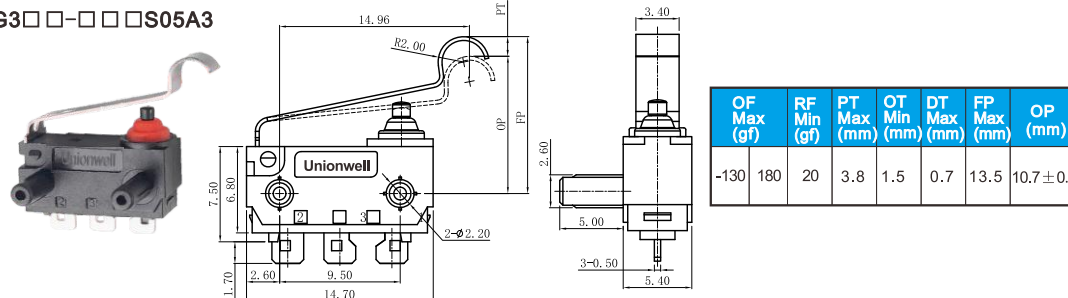
◆ G3□□-□□□S01A3



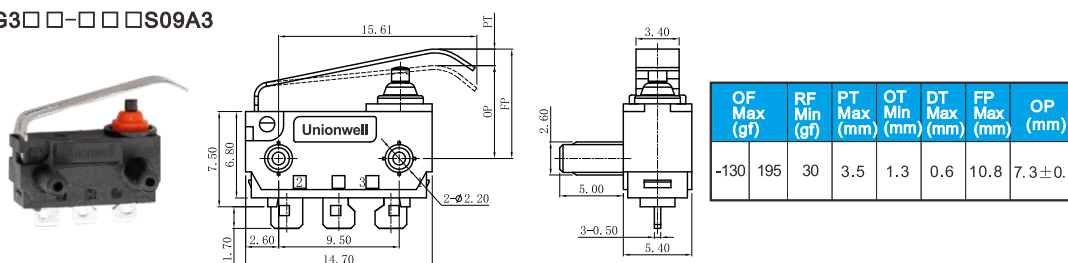
◆ G3□□-□□□S02A3



◆ G3□□-□□□S05A3

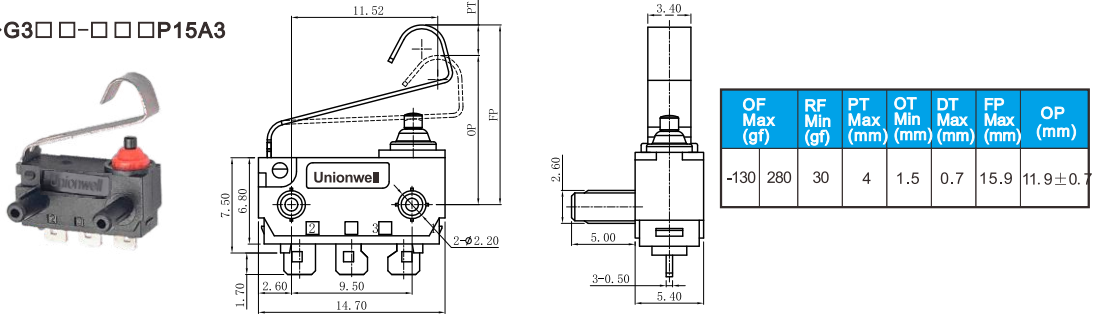


◆ G3□□-□□□S09A3

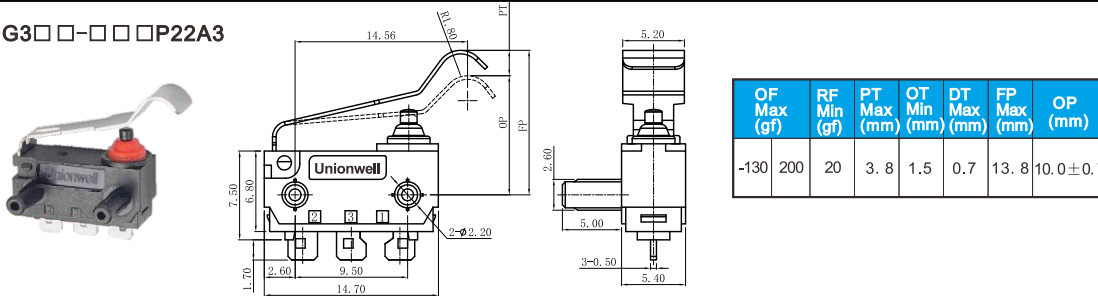


Dimensions and Operating Characteristics

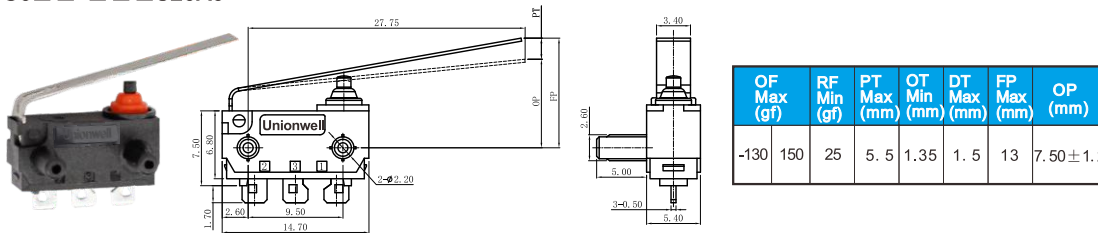
◆G3□□-□□□P15A3



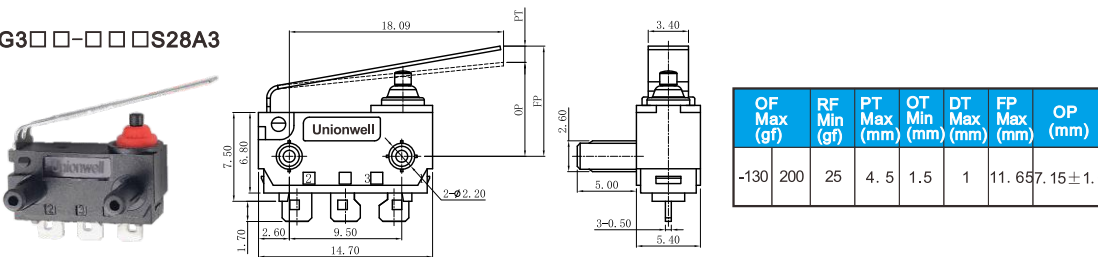
◆G3□□-□□□P22A3



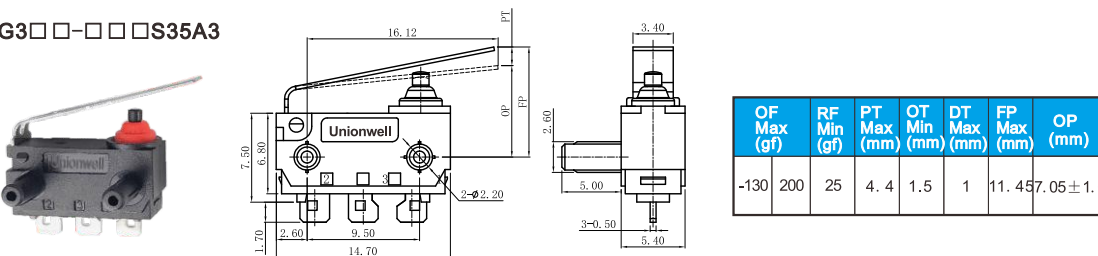
◆G3□□-□□□S25A3



◆G3□□-□□□S28A3

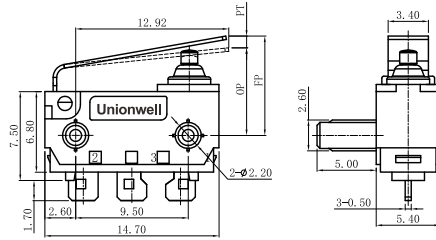


◆G3□□-□□□S35A3



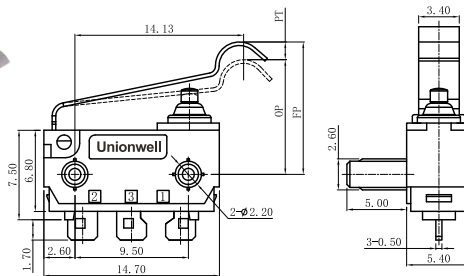
◆ Dimensions and Operating Characteristics

◆ G3□□-□□□S36A3



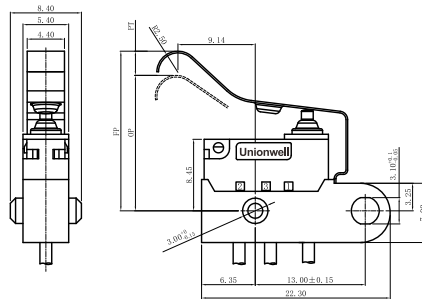
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	200	25	3.4	1.3	0.6	10.6

◆ G3□□-□□□P41A3



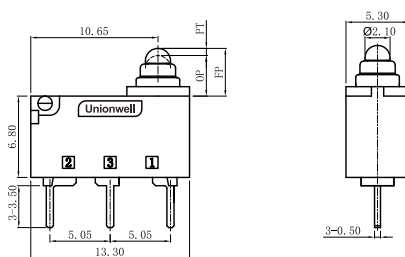
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	200	50	3.5	1.2	0.6	13

◆ G3□□-□□□E37C1



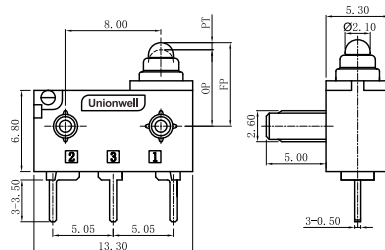
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-130	100	25	6	1.5	2	21

◆ 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

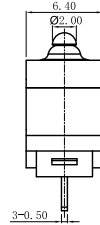
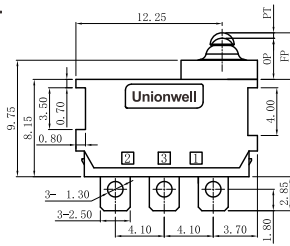
◆ G3□□-□□□P00A53



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

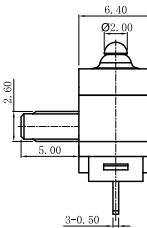
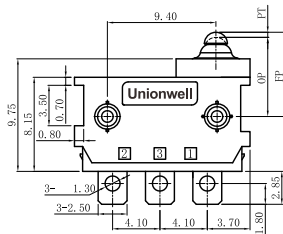
■ Dimensions and Operating Characteristics

◆ G3□□-□□□K00A4



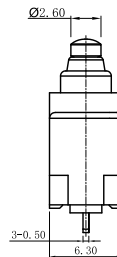
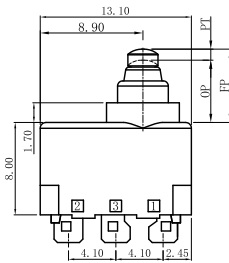
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	130	13	0.8	0.8	0.2	4.1	3.45±0.2

◆ G3□□-□□□K00A6



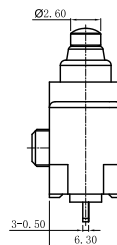
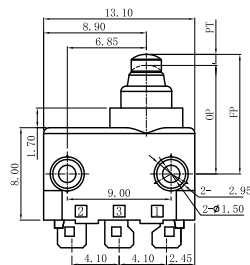
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	130	13	0.8	0.8	0.2	7.5	6.85±0.2

◆ G3□□-□□□S00A13



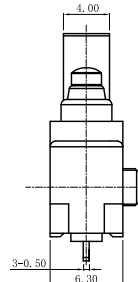
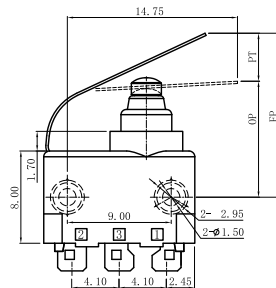
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	180	20	1.5	0.5	0.25	6.35	5.4±0.3

◆ 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

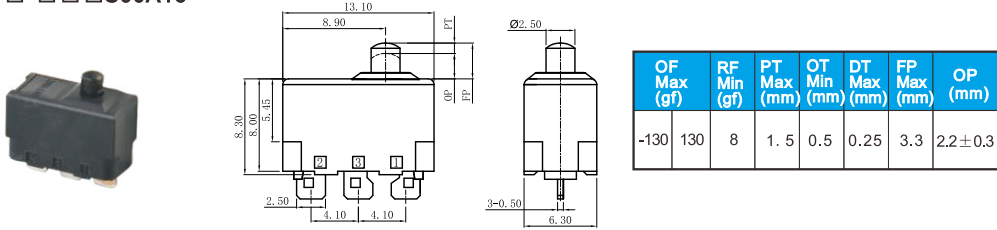
◆ G3□□-□□□S03A15



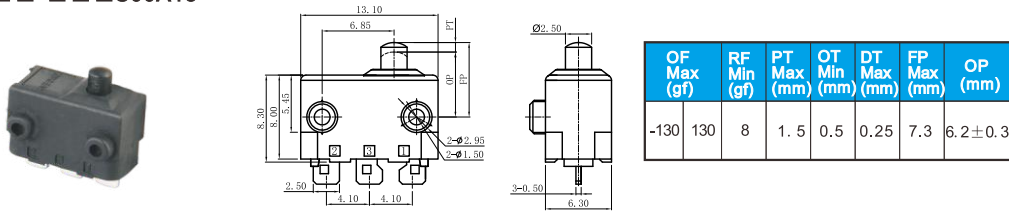
OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)	
-130	250	50	5.5	0.5	1.1	15	10.7±1.5

Dimensions and Operating Characteristics

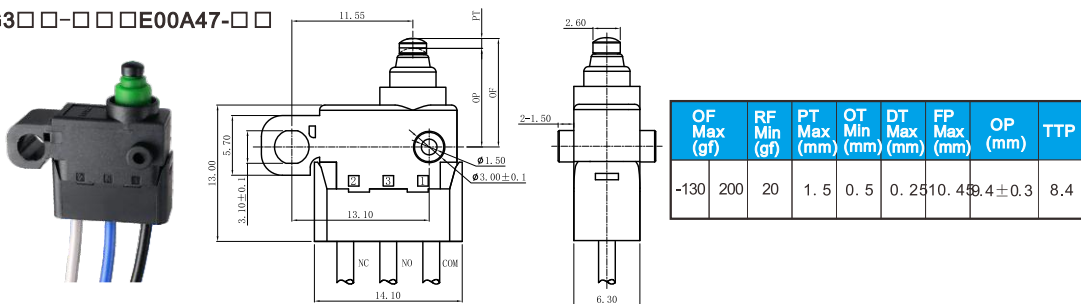
◆G3□□-□□□S00A16



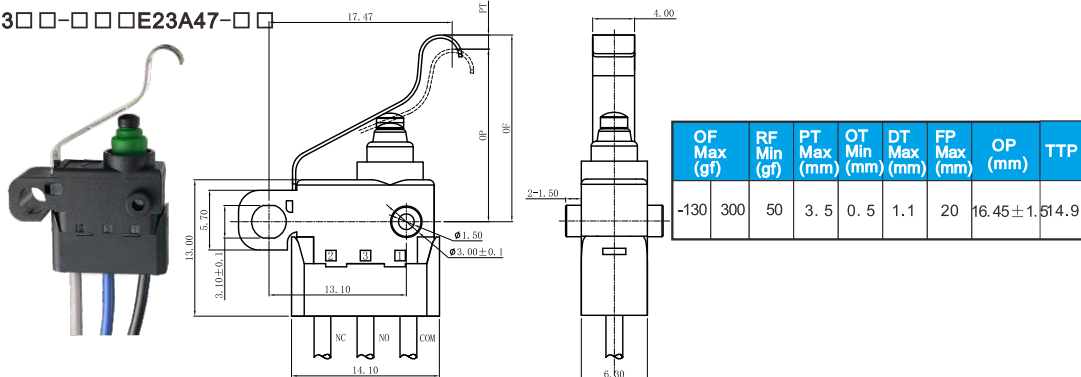
◆G3□□-□□□S00A18



◆G3□□-□□□E00A47-□□



◆G3□□-□□□E23A47-□□



◆G3□□-□□□K00A7

