

G5 Series

Basic Micro Switch



- Features
- ◆ Tight configuration, small contact gap, snap action, high sensitivity and small operating travel
 - ◆ Long life, high reliability
 - ◆ Global safety approvals
 - ◆ Variety of terminals
 - ◆ Wide operating force (7gf~600gf)
 - ◆ Variety of temperature grade (25T85 25T125 25T150)
 - ◆ With optional PTI grade (175V, 250V, 600V)
 - ◆ Variety of levers
 - ◆ Widely used in home appliance, electronic equipment, automatic machine, communication equipment, car electric, apparatus and instrument, power tool, etc.

- Application
- ◆ Home appliance
 - ◆ Electric equipment
 - ◆ Automatic equipment
 - ◆ Communication equipment
 - ◆ Car electric
 - ◆ Apparatus and instrument
 - ◆ Power tool

■ Parameters

Operating Speed		0.1mm 1m/s (Related with actuator forms)
Operating Frequency		Mechanical 60 cycles/min; Electrical 15 cycles/min.
Insulation Resistance		≥100MΩ (500VDC)
Contact Resistance (Initial Value)		≤100mΩ
Voltage Resistance	Between each terminals of the same polarity	AC1000V, 50/60Hz, 1min.
	Between current-carrying metal part and ground and between each terminal and non-current carrying metal parts	AC1500V, 50/60Hz, 1min.
Vibration Resistance		10-55Hz Double amplitude 1.5mm
Shock Resistance		Destruction: OF>1.0 N:1000m/s 2 (approx.100g) max. OF≤1.0 N:400m/s 2 (approx.40g) max.
		Destruction: OF>1.0 N:200m/s 2 (approx.20g) max. OF≤1.0 N:100m/s 2 (approx.10g) max.
Service Life		Mechanical ≥10,000,000 cycles or 1,000,000 cycles Electrical ≥50,000 cycles or 100,000 cycles
Unit Net Weight		Approx. 6.2g (without lever)

G5 Series Micro Switch Ordering Instruction

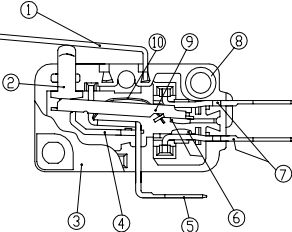
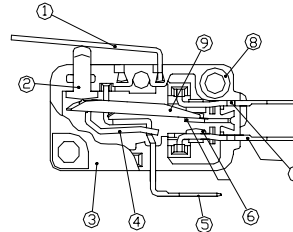
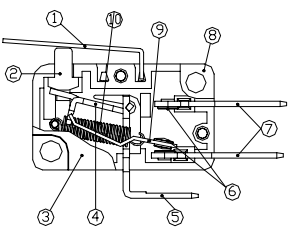
G5	T	16	C	Z	200	A	01	K	T001	U
Switch Type	Temperature Grade	Electrical Rating	Terminal Style	Circuitry	Max. Operating Force at Pin Plunger	Lever Position	Lever Type	Mounting Holes	Custom Code	LOGO
G5 Series - Micro Switch	S 25T85 (for "05" rating Only)	05 ENEC/CQC: 0.1A 48VDC 0.1A 125/250VAC 5(2.5)A 125/250VAC UL/cUL: 0.1A 48VDC 0.1A 125/250VAC 5A1/10HP 125/250VAC ("S" Temperature grade only) Only for C,C1,C2,E,E1,E2,D,D1,D2,S,S1,S2	C1,C2 6.30x0.80mm 0.250"x0.032" Quick Connect	Z SPDT	0 15 15gf note: Only apply to G5S05	No lever Pin Plunger	No lever Pin Plunger	Metric Ø3.1mm	General	U Unionwell ... Other
	T 25T125	06 ENEC/CQC:8(10)A 250VAC UL/cUL:10.1A1/2HP 250VAC (Above only for "T" temperature grade and switch of contact gap>3mm) and only for C2 and D2 terminals; "300" ~ "500" OF only	D1,D2 4.80x0.80mm 0.187"x0.032" Quick Connect	P SPST-NO	0 25 25gf note: Only apply to G5S05	A Far From Pin Plunger	01 Short Straight Lever	K USA Ø2.9mm	T001 Customized according to requirements, the code format is T+serial number XXX, for example: T001	
GSD Door Switch	H 25T150	10 UL/CUL:1A 30VDC 10A1/2HP 125/250VAC (Above only for "H" temperature grade) UL/cUL: 11A1/3HP 125/250VAC 0.5A 125VDC 0.25A 250VDC 4A 125VAC ENEC/CQC:10(3)A125/250VAC 25T125 μSE4 (Above only for "T" temperature grade) C,C1,C2,E,E1,E2, D,D1,D2,F,F1 Terminal only. 10(4)A 250VAC25T85 μSE4IP64 Only for G5F*IP64*waterproof grade	E1,E2 4.80x0.50mm 0.187"x0.020" Quick Connect	C SPST-NC	0 50 50gf 0.49N Note: Only apply to G5S05, G5T10	B Near Pin Plunger	02 Std. Straight Lever	U Alloy base with inner mounting hole Only for GSD Door Switch	... Other	
	B 25T125 Only for "05" rating and contact gap>3mm	16 ENEC/CQC: 16(4)A 250VAC u SE4 UL/cUL: 16A1/2HP 125/250VAC	L1,L2 Left side PCB Connect		1 00 100gf 0.98 N Note:16A and 22A Mini OF is 100gf;16A/22A 100gf	F Push Rod "GSD Door switch" only.	03 Long Straight Lever	V Alloy base with outer mounting hole Only for GSD Door Switch		
	F 25T85IEC IP64 Only for rating "10"	22 ENEC/CQC: 22(8)A 250VAC u SE4 UL/cUL: 22A1HP 125/250VAC	R1,R2 Right side PCB Connect		2 00 200gf 1.96N Note:G5S05, G5T10, Series with Max OF is 200gf; 26A, Min OF is 200gf	J Screw Push Rod "GSD Door switch" only	04 Simulated Roller Lever	W Alloy base with two switches Only for GSD Door Switch		
		26 ENEC/CQC: 26(10)A 250VAC 0.02A 250VAC, 25E3	S1,S2 Solder Connect		3 00 300gf 2.94N Note: Not apply to G5S05,G5T10 Series		05 Roller Lever			
			T1,T2 Screw Connect		4 00 400gf 3.92N Note: Not apply to G5S05,G5T10 Series		06 Long Roller Lever			
			P1,P2 Straight PCB Terminals		5 00 500gf 4.90N "B" Temperature grade only		...			
			H1,H2 Rast -S Terminals		18 00 1800gf 17.64N "GSD Door switch" only		99 Special Lever			
			B2 6.30x0.80mm 0.250"x0.032" Straight Quick Connect							
			... Special Connect							

Note: Letter is used for the basic type housing
Letter + number is used for the flat type housing

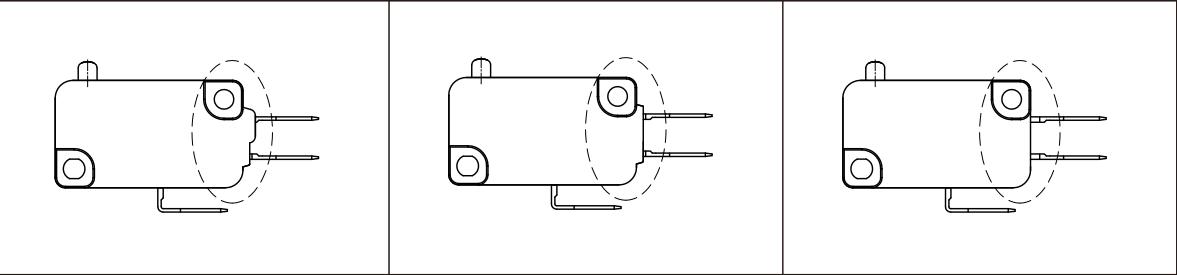
Description:
Relationship between current and OF,the lowest OF for each rating.
0.1A~0.5A:15gf Min.Grade.
10A: 25gf Min.Grade.
16A:100gf Min.Grade.
22A:100gf Min.Grade.(Not recommended)

G5 Series | Mounting Hole, Lever Type, Circuit, Shape, Terminal Type

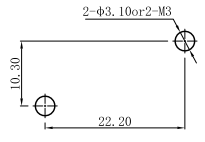
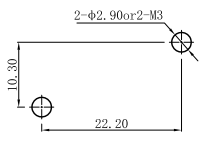
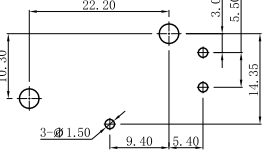
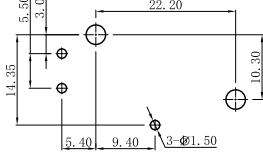
Inner Construction

		
General Type	G5S05/G5T10	Contact Gap>3mm
1. Lever 2. Plunger 3. Cover	4. Internal Lever 5. Common Terminal 6. Contacts	7. NO/NC Terminals 8. Case 9. Movable Plate 10. Spring

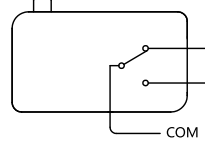
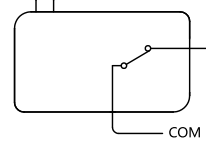
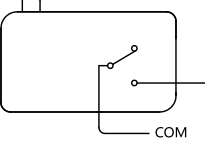
Housing Outline Characteristics



Mounting Hole Dimensions

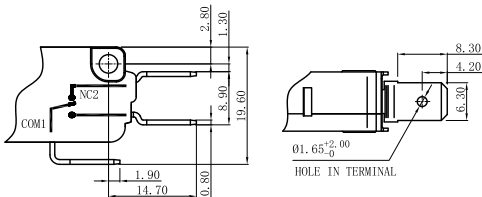
Basic Type	K Type	Left Angled PCB Terminal	Right Angled PCB Terminal
			

Circuitry Configuration

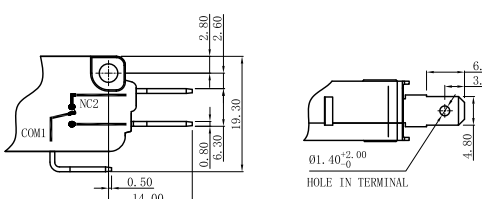
Common Terminal Type	"Z" SPDT	"C" SPST-NC	"P" SPST-NO
Common Terminal at Bottom			

Connect Terminal Dimensions
Terminals for Basic Type Housing

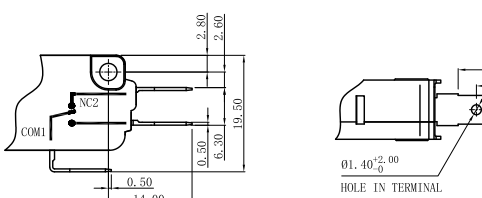
Basic Type Housing with
250# Quick Connect Terminals, T=0.8(C)



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

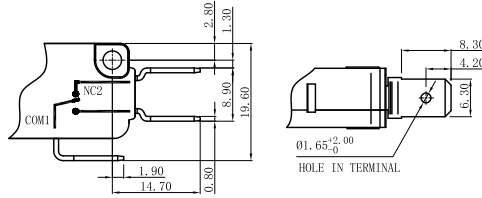


Basic Type Housing with
187# Quick Connect Terminals, T=0.5(E)

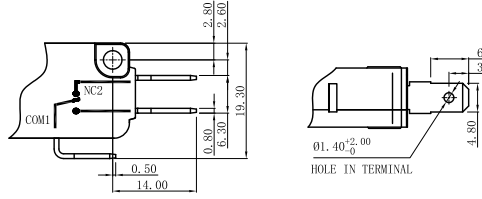


Terminals for Flat Type Housing

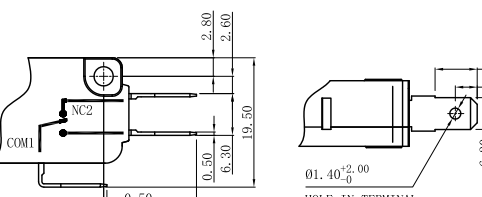
Flat Type Housing with
250# Quick Connect Terminals, T=0.8 (C1)



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



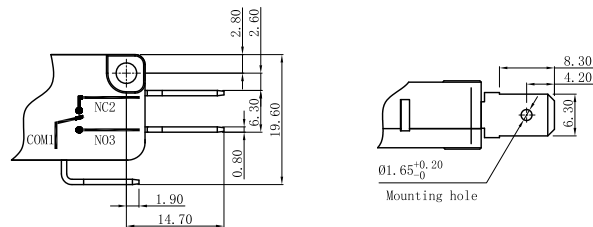
Flat Type Housing with
187# Quick Connect Terminals, T=0.5 (E1)



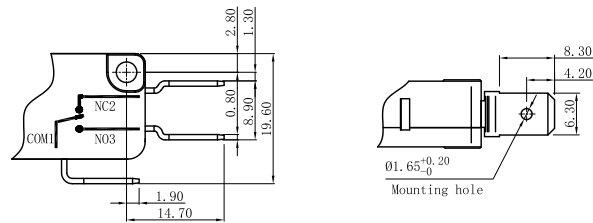
◆ Terminals for Fully Flat Type Housing

(Unit:mm)

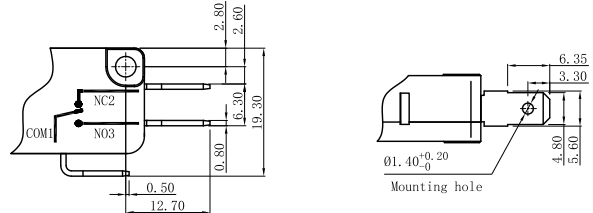
B2 Fully Flat Type
250# Quick Connect Terminals, T=0.8



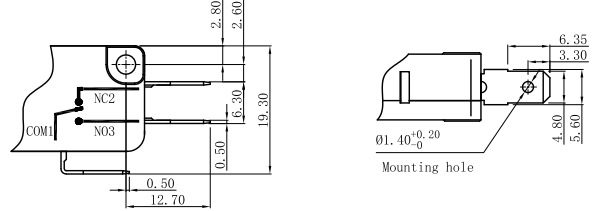
Fully Flat Housing with
250# Quick Connect Terminals, T=0.8 (C2)



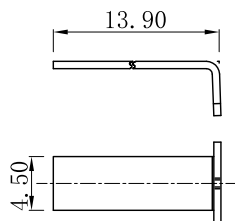
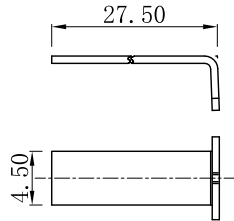
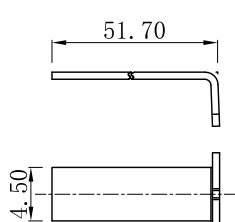
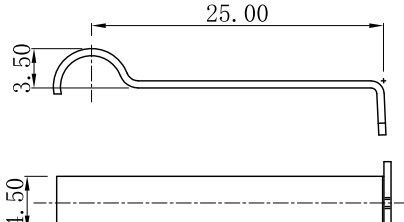
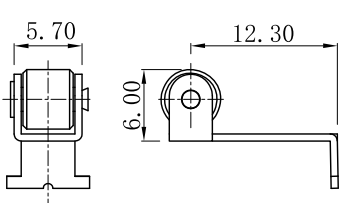
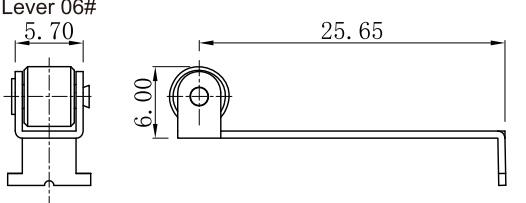
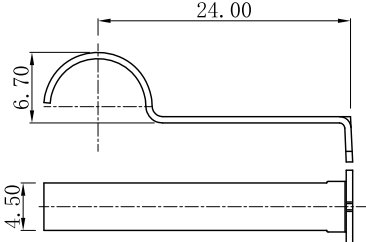
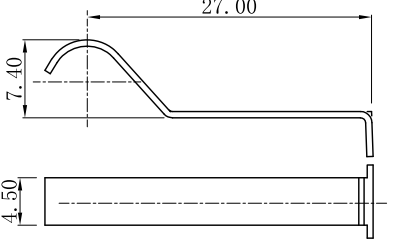
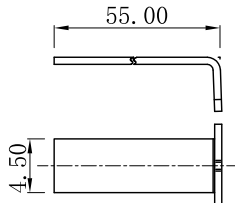
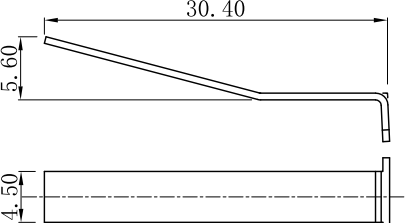
Fully Flat Housing with
187# Quick Connect Terminals, T=0.8 (D2)



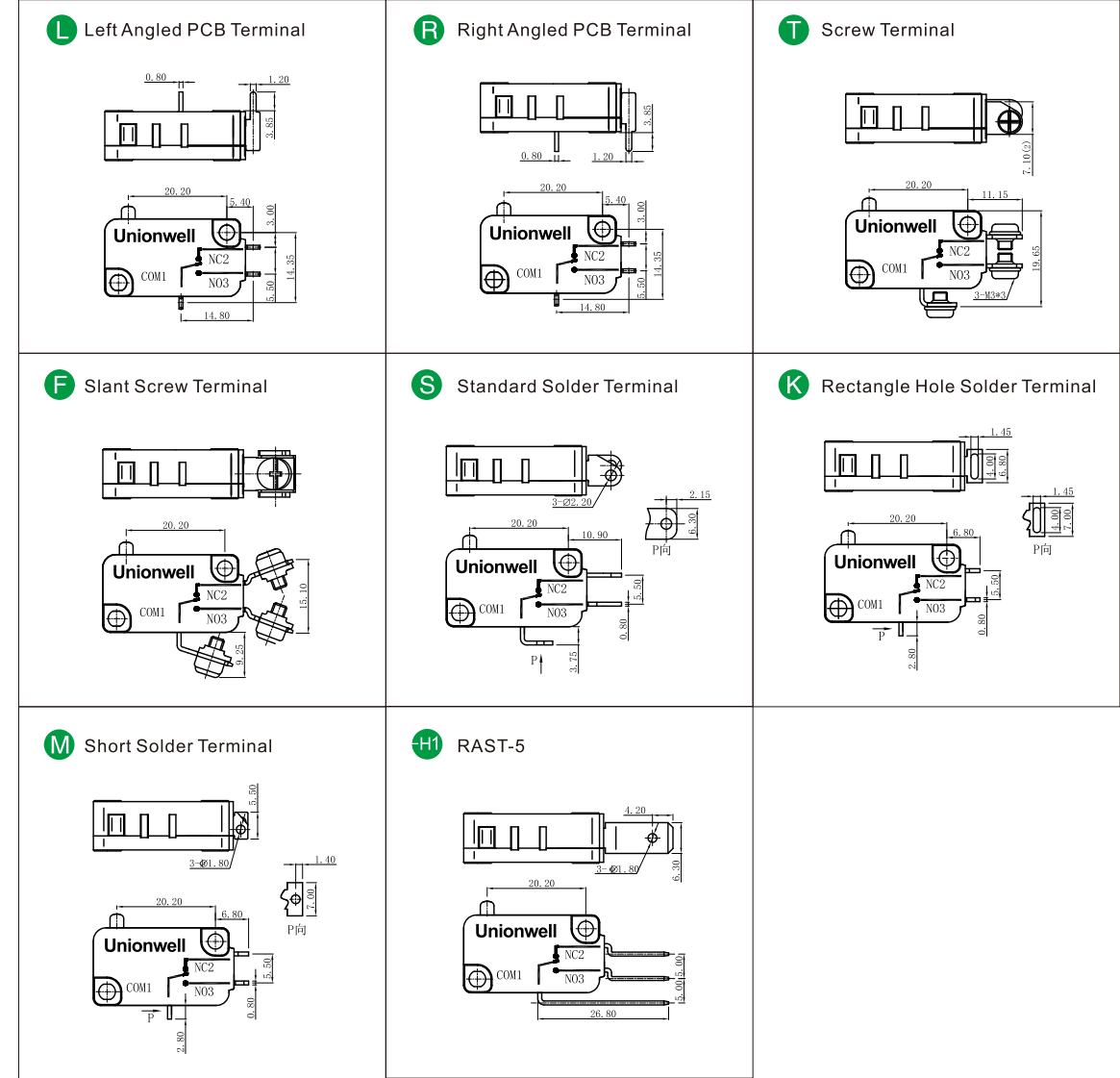
Fully Flat Housing with
187# Quick Connect Terminals, T=0.5 (E2)



◆ Other Levers

Lever 01# 	Lever 02# 
Lever 03# 	Lever 04# 
Lever 05# 	Lever 06# 
Lever 110# 	Lever 137# 
Lever 164# 	Lever 165# 

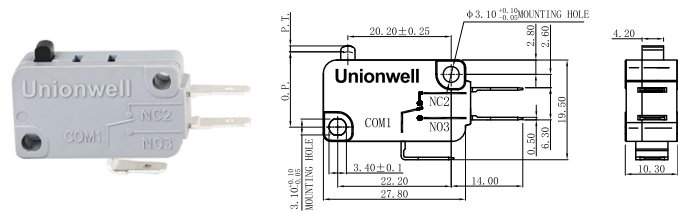
◆ Other Terminals



◆ Dimensions and Operating Characteristics

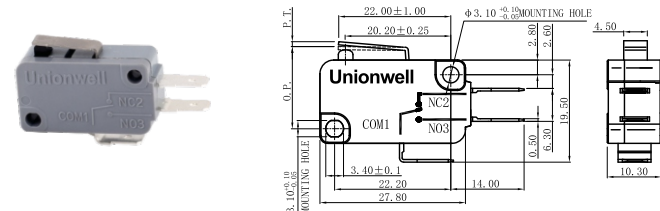
(Unit:mm)

◆ Plunger



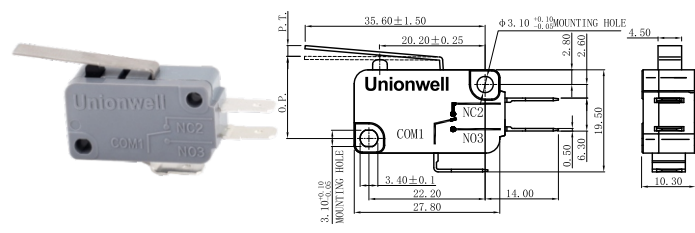
Part No.	Parameters					
	FP Max. (mm)	OP (mm)	OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)
G5□□□-E1Z015U	16.80	14.7±0.5	15	3	1.6	0.8
G5□□□-E1Z025U	16.80	14.7±0.5	25	5	1.6	0.8
G5□□□-E1Z050U	16.80	14.7±0.5	50	10	1.6	0.8
G5□□□-E1Z0100U	16.80	14.7±0.5	100	25	1.6	0.8
G5□□□-E1Z0200U	16.80	14.7±0.5	200	50	1.6	0.8
G5□□□-E1Z0300U	16.80	14.7±0.5	300	75	1.6	0.8
G5□□□-E1Z0400U	16.80	14.7±0.5	400	100	1.6	0.8

◆ Short Straight Lever



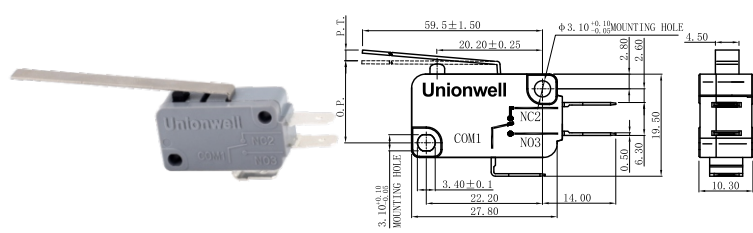
Part No.	Parameters						
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G5□□□-E1Z015A01U	17.00	15.3±0.5	15	3	1.6	0.8	0.4
G5□□□-E1Z025A01U	17.00	15.3±0.5	25	5	1.6	0.8	0.4
G5□□□-E1Z050A01U	17.00	15.3±0.5	50	10	1.6	0.8	0.4
G5□□□-E1Z0100A01U	17.00	15.3±0.5	100	25	1.6	0.8	0.4
G5□□□-E1Z0200A01U	17.00	15.3±0.5	200	50	1.6	0.8	0.4
G5□□□-E1Z0300A01U	17.00	15.3±0.5	300	75	1.6	0.8	0.4
G5□□□-E1Z0400A01U	17.00	15.3±0.5	400	100	1.6	0.8	0.4

◆ Standard Straight Lever



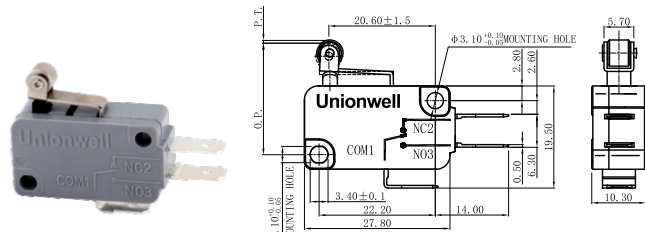
Part No.	Parameters						
	FP Max. (mm)	OP (mm)	OF Max. (gf)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)
G5□□□-E1Z015A02U	18.60	15.3±1.5	10	2	3.2	1.3	1.0
G5□□□-E1Z025A02U	18.60	15.3±1.5	15	2	3.2	1.3	1.0
G5□□□-E1Z050A02U	18.60	15.3±1.5	30	5	3.2	1.3	1.0
G5□□□-E1Z0100A02U	18.60	15.3±1.5	60	10	3.2	1.3	1.0
G5□□□-E1Z0200A02U	18.60	15.3±1.5	120	20	3.2	1.3	1.0
G5□□□-E1Z0300A02U	18.60	15.3±1.5	180	30	3.2	1.3	1.0
G5□□□-E1Z0400A02U	18.60	15.3±1.5	240	40	3.2	1.3	1.0

◆ Long Straight Lever



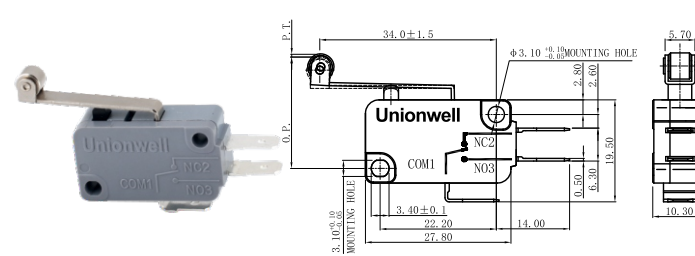
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G5□□□-E1Z015A03U	22.40	15.3±3.0	7	2	6.4	2.6	2.0
G5□□□-E1Z025A03U	22.40	15.3±3.0	10	2	6.4	2.6	2.0
G5□□□-E1Z050A03U	22.40	15.3±3.0	15	2	6.4	2.6	2.0
G5□□□-E1Z0100A03U	22.40	15.3±3.0	30	5	6.4	2.6	2.0
G5□□□-E1Z0200A03U	22.40	15.3±3.0	60	10	6.4	2.6	2.0
G5□□□-E1Z0300A03U	22.40	15.3±3.0	90	15	6.4	2.6	2.0
G5□□□-E1Z0400A03U	22.40	15.3±3.0	120	20	6.4	2.6	2.0

◆ Short Roller Lever



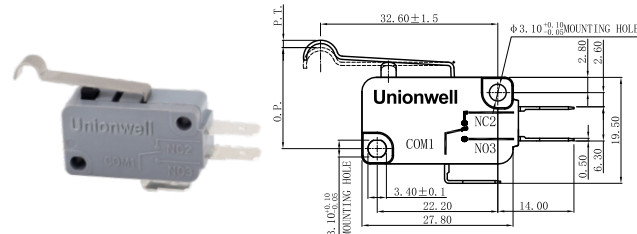
Part No.	Parameters						
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G5□□□-E1Z015A05U	22.70	20.6±0.8	15	3	3.2	0.8	0.4
G5□□□-E1Z025A05U	22.70	20.6±0.8	30	5	3.2	0.8	0.4
G5□□□-E1Z050A05U	22.70	20.6±0.8	60	10	3.2	0.8	0.4
G5□□□-E1Z0100A05U	22.70	20.6±0.8	120	20	3.2	0.8	0.4
G5□□□-E1Z0200A05U	22.70	20.6±0.8	240	40	3.2	0.8	0.4
G5□□□-E1Z0300A05U	22.70	20.6±0.8	350	60	3.2	0.8	0.4
G5□□□-E1Z0400A05U	22.70	20.6±0.8	470	80	3.2	0.8	0.4

◆ Long Roller Lever



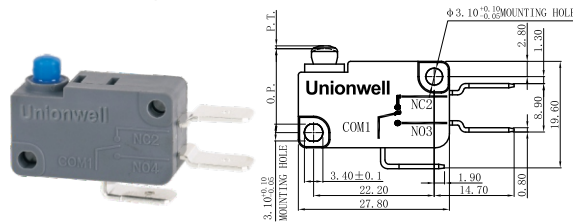
Part No.	Parameters						
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G5□□□-E1Z015A06U	23.90	20.6±1.6	10	2	3.2	1.3	1.2
G5□□□-E1Z025A06U	23.90	20.6±1.6	15	2	3.2	1.3	1.2
G5□□□-E1Z050A06U	23.90	20.6±1.6	30	5	3.2	1.3	1.2
G5□□□-E1Z0100A06U	23.90	20.6±1.6	60	10	3.2	1.3	1.2
G5□□□-E1Z0200A06U	23.90	20.6±1.6	120	20	3.2	1.3	1.2
G5□□□-E1Z0300A06U	23.90	20.6±1.6	180	30	3.2	1.3	1.2
G5□□□-E1Z0400A06U	23.90	20.6±1.6	240	40	3.2	1.3	1.2

◆ Simulated Roller Lever



Part No.	Parameters						
	FP Max. (mm)	OP (mm)	OF Max. (g)	RF Min. (g)	PT Max. (mm)	OT Min. (mm)	DT Ma (mm)
G5□□□-E1Z015A04 U	23.90	20.6±1.6	10	2	3.2	1.3	1.2
G5□□□-E1Z025A04 U	23.90	20.6±1.6	15	2	3.2	1.3	1.2
G5□□□-E1Z050A04 U	23.90	20.6±1.6	30	5	3.2	1.3	1.2
G5□□□-E1Z0100A04U	23.90	20.6±1.6	60	10	3.2	1.3	1.2
G5□□□-E1Z0200A04U	23.90	20.6±1.6	120	20	3.2	1.3	1.2
G5□□□-E1Z0300A04U	23.90	20.6±1.6	180	30	3.2	1.3	1.2
G5□□□-E1Z0400A04U	23.90	20.6±1.6	240	40	3.2	1.3	1.2

◆ IP64 Waterproof Switch



Part NO	Parameters							
	OF Max		RF Min		PT Max	OT Min	MD Max	OP (mm)
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	
G5F□□-C1Z300U	4.92	500	1.96	200	1.6	0.8	0.4	15.0±0.5

G5 Series-G5D Zinc Alloy Door Switch

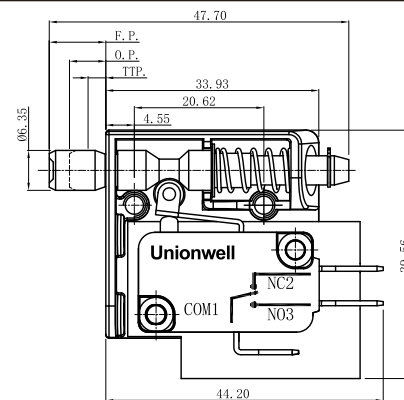
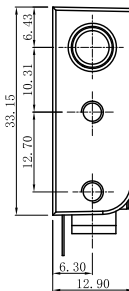
◆ Dimensions and Operating Characteristics

(Unit:mm)

◆G5D□□-□□1800F05-UU



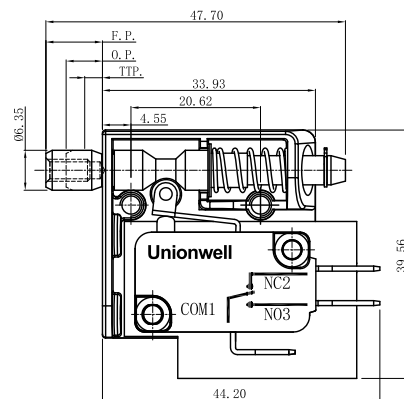
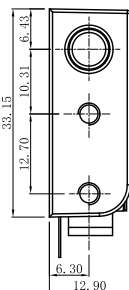
Parameters				
OF Max		FP Max	TTP Min	OP Min
(N)	(gf)	(mm)	(mm)	(mm)
17.60	1800	9.5	3.18	5.16



◆G5D□□-□□1800J05-UU



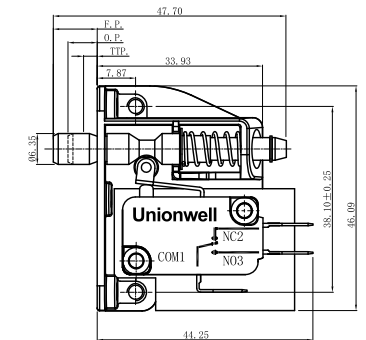
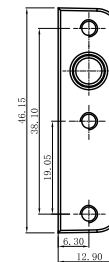
Parameters				
OF Max		FP Max	TTP Min	OP Min
(N)	(gf)	(mm)	(mm)	(mm)
17.60	1800	9.5	3.18	5.16



◆G5D□□-□□1800F05-VU



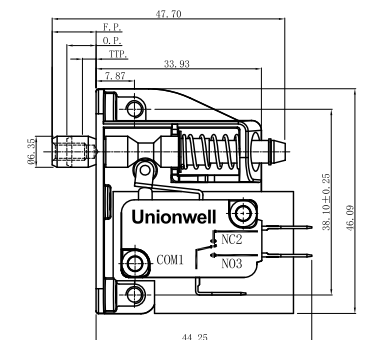
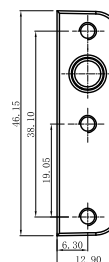
Parameters				
OF Max		FP Max	TTP Min	OP Min
(N)	(gf)	(mm)	(mm)	(mm)
17.60	1800	9.5	3.18	5.16



◆G5D□□-□□1800J05-V



Parameters				
OF Max		FP Max	TTP Min	OP Min
(N)	(gf)	(mm)	(mm)	(mm)
17.60	1800	9.5	3.18	5.16



◆G5D□□-□□900J05-VU



Parameters				
OF Max		FP Max	TTP Min	OP Min
(N)	(gf)	(mm)	(mm)	(mm)
17.60	900	9.5	3.18	5.16

