

Greetech

G5

ベーシックマイクロスイッチ/Basic Micro Switch

■特長 Features

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| <ul style="list-style-type: none"> ◆ タイтна構成、小さなコンタクトギャップ、スナップアクション、高感度、小さな動作トラベル ◆ 長寿命、高信頼性 ◆ 世界的な安全認証 ◆ 様々な端子 ◆ 幅広いオペレーティングフォース(7gf～600gf) ◆ 豊富な温度グレード(25T85 25T125 25T150) ◆ オプションの PIT グレード(175V, 250V, 600V) ◆ 様々なレバー | <ul style="list-style-type: none"> ◆ 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 |
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■応用 Application

- | | |
|--|---|
| <ul style="list-style-type: none"> ◆ 家電 ◆ 電気機器 ◆ 自動装置 ◆ 通信機器 ◆ 電気自動車 ◆ 機械・器具 ◆ 電動工具 | <ul style="list-style-type: none"> ◆ Appliance ◆ Electric Equipment ◆ Automatic Equipment ◆ Communication Equipment ◆ Car Electric ◆ Apparatus and Instrument ◆ Power tool |
|--|---|

■パラメーター Parameters

動作スピード / Operating Speed		0.1mm – 1m/s (アクチュエーターの形態に関連します。 / Related with actuator forms.)
動作頻度 / Operating Frequency		機械的 60 サイクル/分、電氣的 15 サイクル/分 / Mechanical 60 cycles/min; Electrical 15 cycles/min.
絶縁抵抗 / Insulation Resistance		≥100MΩ (500VDC)
接触抵抗 / Contact Resistance		≤100MΩ (Initial value)
テスト 電圧/ Test Voltage	同極性の端子 / Terminal of the same polarity	AC1000V, 50/60HZ, 1min
	通電金属部とアース間、各端子と非通電金属部間 / Between current-carrying metal part and ground, and between each terminal and non-current carrying metal parts.	AC1500V, 50/60HZ, 1min
耐振動性 / Vibration Resistance		10-55HZ, 1.5mm Double amplitude
耐衝撃性 / Shock Resistance		Destruction: OF > 1.0N:1000m/s ² (approx.100G) max. OF ≤ 1.0N:400m/s ² (approx.40G) max. Destruction: OF > 1.0N:200m/s ² (approx.20G) max. OF ≤ 1.0N:100m/s ² (approx.10G) max.
平均寿命 / Life Expectancy		Mechanical ≥10,000,000cycles/or 1,000,000cycles Electrical ≥50,000cycles/or 100,000cycles
重量 / Weight		Approx. 6.2g (No lever)

G5系列微动开关订货指引 G5Series Micro Switch Ordering Instruction

G5	T	16	C	Z	200	A	01	K	XX
开关类别 Switch Type	温度等级 Temperature grade	额定电流 Electrical Rating	端子类别 Terminal Style	接触形式 Circuit Code	操作力(最大)及最小 不带操作柄时所需 力 Operating Force at Pin Plunger	操作柄位置 Lever Position	操作柄类型 Lever Type	安装孔尺寸 Mounting Holes	特别设计代码 Special Designator
G5 系列微动开关 G5 Series - Micro Switch	S	ENEC/CQC: 0.1A 48VDC 0.1A 125/250VAC 5(2.5)A 125/250VAC UL/CUL: 0.1A 48VDC 0.1A 125/250VAC 5A 1/10HP 125/250VAC (仅适用于“S”温度等级/Temperature grade only) 仅适用于/Only for C, C1, C2, E, E1, E2, D, D1, D2, S, S1, S2	C C1 C2 3.30x0.80mm 0.250"x0.032" 快接端子 Quick connect	Z SPDT 单极双投	15gf note: 仅适用于/Only apply to G5S05, series.	不带操作柄 柱式按垫 No lever Pin Plunger	不带操作柄 柱式按垫 No lever Pin Plunger	Metric 03.1mm	此为特别指定代码当端子类型是“X”或操作柄类型是“99”时说明此端子或操作柄是特别设计的,具体请参考产品规格来确定详细的差别 Here means a special designator letter. Refer to products specification for detailed differences.
	T	ENEC/CQC: 8(10)A 250VAC UL/CUL: 10.1A 1/2HP 250VAC (以上仅适用“B”温度等级和触点间距>3mm的开关并仅适用于C2, D2端子类别和“300gf/500gf”操作力/Above only for “T” temperature grade and switch of contact gap>3mm and only for C2 and D2 terminals; “300”~“500”OF only	D D1 D2 4.80x0.80mm 0.187"x0.032" 快接端子 Quick Connect	P SPST-NO 单极单投-常开	25gf note: 仅适用于/Only apply to G5S05, series.	远离柱式 按垫位置 Far From Pin Plunger	短直柄 Short Straight Lever	K USA 02.9mm	H Rast-5250# terminal. N Rast-7250# terminal. P Side PCB 25# terminal. A Contact gold plated.
G5D 门开关 G5D Door - Switch	H	UL/CUL: 1A 30VDC 10A 1/2HP 125/250VAC (以上仅“H”温度等级适用 /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 25T125 M5E4 (以上仅“T”温度等级适用/Above only for “T” temperature grade) 仅适用于 /C, C1, C2, E, E1, E2, D, D1, D2, F, F1 Terminal only. 10(A)A 250V AC 25T85 a 5E4 IP64 以上仅适用于 G5F“IP64”防水等级 Only for G5F“IP64”waterproof grade	E E1 E2 4.80x0.50mm 快接端子 Quick Connect	C SPST-NC 单极单投-常闭	50gf 0.49N Note: 仅适用于/Only apply to G5S05, 25T10, series.	靠近柱式 按垫位置 Near Pin Plunger	标准直柄 Std. Straight Lever	U 内安装孔合金底座-仅适用于 G5D 系列 Alloy base with inner mounting hole Only for G5D Door Switch	
	B	ENEC/CQC: 16(A)A 250VAC UL/CUL: 16A 1/2HP 125/250VAC	L L1 L2 左侧面 PCB 端子 Left side PCB connect		100gf 0.98N Note: 16A and 22A Minimum OF is 100gf, 16A/22A 最小操作力为 100gf	P 推杆 Push Rod “G5D Door switch” only.	03 长直柄 Long Straight Lever	V 外安装孔合金底座-仅适用于 G5D 系列 Alloy base with outer mounting hole Only for G5D Door Switch	
	F	ENEC/CQC: 22(8)A 250VAC UL/CUL: 22A 1HP 125/250VAC	R R1 R2 右侧面 PCB 端子 Right side PCB connect		200gf 1.96N Note: G5S05, G5T10, G5W11 Series/ 最大操作力为 200gf/with maximum OF is 200gf; 26A, 最低操作力为 /Min OF is 200gf	J 螺孔推杆 Screw Push Rod “G5D Door switch” only.	04 柄模拟滚轮手 柄 Simulated Roller Lever	W 双开关合金底座-仅适用于 G5D 系列 Alloy base with two switches Only for G5D Door Switch	
		ENEC/CQC: 26(10)A 250VAC, 0.02A 250VAC, 25E3	S S1 S2 焊接端子 Solder Connect		300gf 2.94N Note: 不适用于 G5S05, G5T10 Series		05 带滚轮手柄 Roller Lever		
			T T1 T2 螺孔端子 Screw Connect		400gf 3.92N Note: 不适用于 G5S05, G5T10 Series		06 带长滚轮手 柄 Long Roller Lever		
		P P1 P2 直 PCB 端子		500gf 4.90N “B” Temperature grade only.				
		H H1 H2 Rast-5端子		1800gf 17.64N “G5D Door switch” only.		99 特殊手柄 Special Lever			
		B B2 3.30x0.80mm D.250"x0.032" 直快接端子							
		... 特殊端子 Special connect							

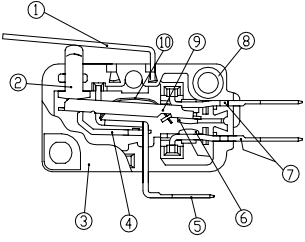
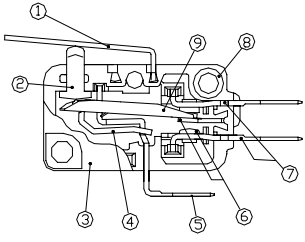
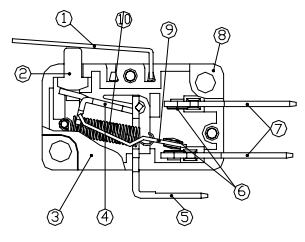
备注: 仅字母时用于基本型外壳
字母+数字时用于平端型外壳
Note: Letters only for Basic type Housing
Letter+Number for Flat End type Housing

说明 Description:
电流与操作力关系, 各电流等级对应最小操作力等级
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. (不推荐/don't recommend)

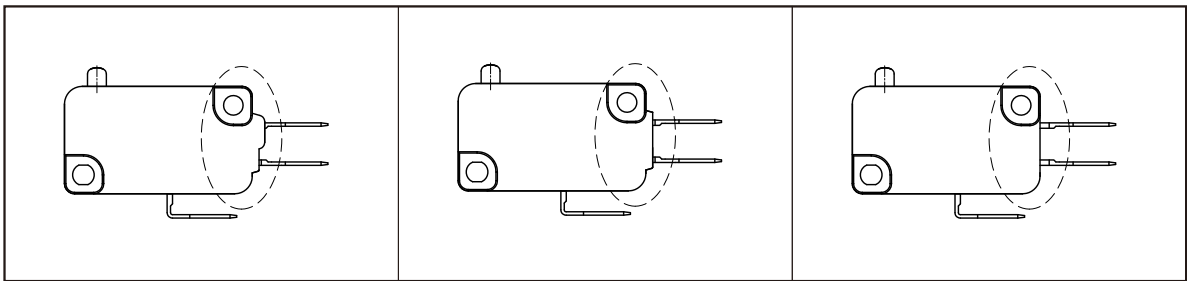
G5系列
G5 Series

安装孔位、操作柄类型、接触形式、外形介绍、端子类
Mounting Hole, Lever Type, Circuit, Shape, Terminal Type

内部构造图/Inner Construction

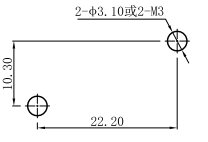
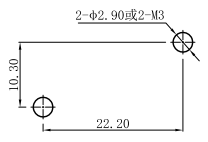
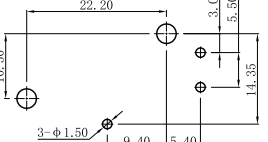
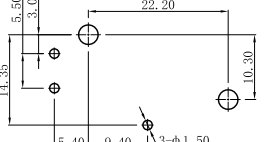
		
普通型 General Type	G5S05/G5T10	触点间距>3mm Contact Gap>3mm
1. 操作柄/Lever 2. 按挚/Plunger 3. 胶盖/Cover	4. 支杆/Internal Lever 5. 公共端子/Common Terminal 6. 触点/Contacts	7. NC/NO端子/NO/NC Terminals 8. 胶座/Case 9. 动片/Movable Plate 10. 弹片/弹簧 (右图) Spring

外形特征/Housing Outline Characteristics

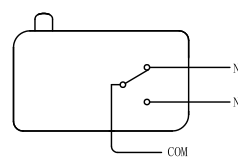
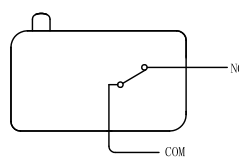
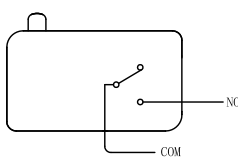


安装孔尺寸/Mounting Hole Dimensions

(单位/Unit:mm)

基本形 Basic Type	K形 K Type	左侧面PCB端子 Left Angled PCB Terminal	右侧面PCB端子 Right Angled PCB Terminal
			

接触形式图/Circuit Configuration

公共端子类型/Common Terminal Type	"Z"转换式SPDT	"C"常闭式SPST-NC	"P"常开式SPST-NO
公共端在底部 Common Terminal at bottom			

■ 接线端子尺寸/Connect Terminal Dimensions

◆ 基本型胶壳/Terminals for Type Housing

(单位/Unit:mm)

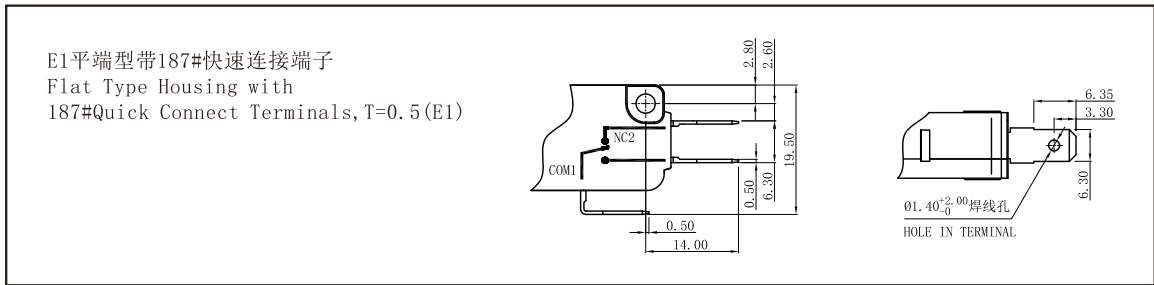
<p>C基本型带250#快速连接端子 Basic Type Housing with 250#Quick Connect Terminals, T=0.8(C)</p>		
<p>D基本型带187#快速连接端子 Basic Type Housing with 187#Quick Connect Terminals, T=0.8(D)</p>		
<p>E基本型带187#快速连接端子 Basic Type Housing with 187#Quick Connect Terminals, T=0.5(E)</p>		

◆ 平端型胶壳/Terminals for Flat Type Housing

(单位/Unit:mm)

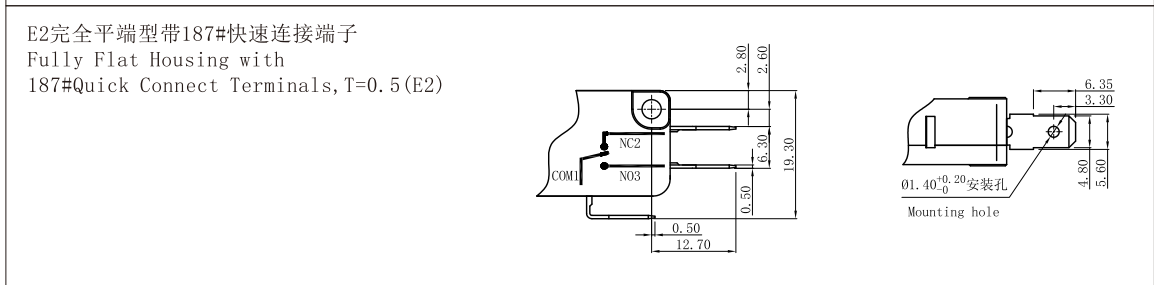
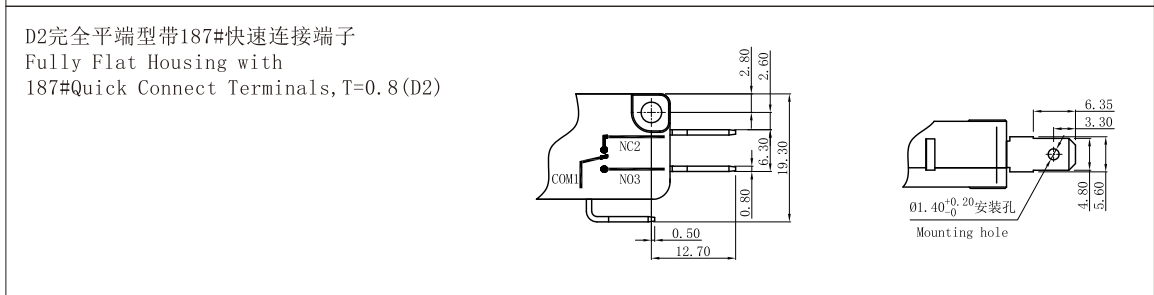
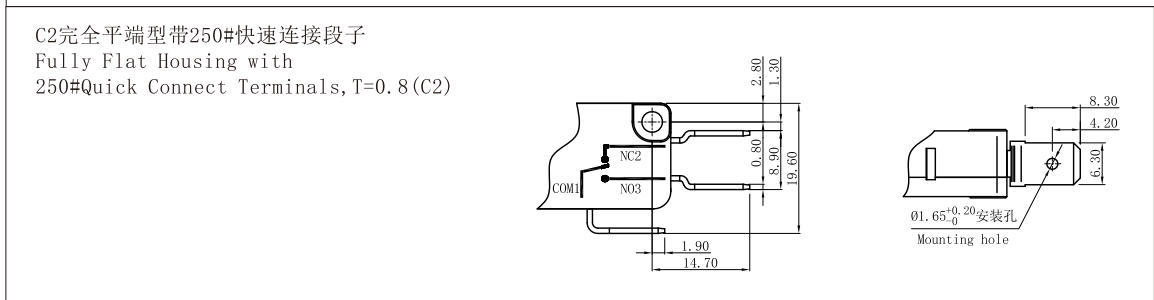
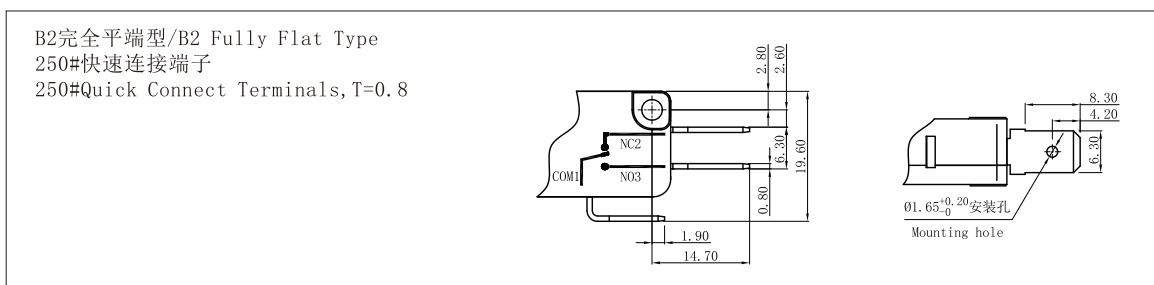
<p>C1平端型带250#快速连接端子 Flat Type Housing with 250#Quick Connect Terminals, T=0.8(C1)</p>		
<p>D1平端型带187#快速连接端子 Flat Type Housing with 187#Quick Connect Terminals, T=0.8(D1)</p>		

(单位/Unit:mm)

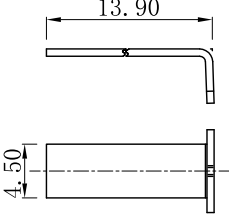
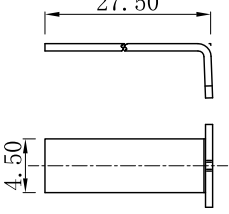
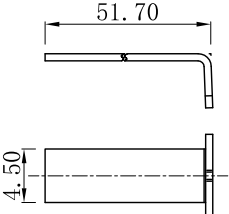
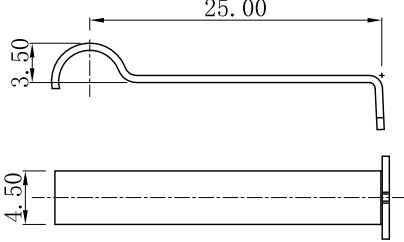
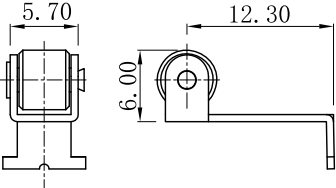
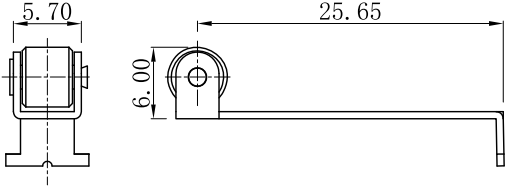
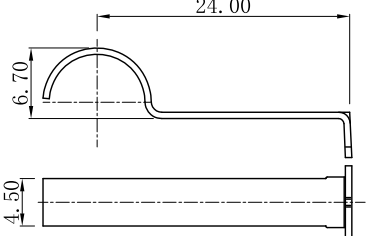
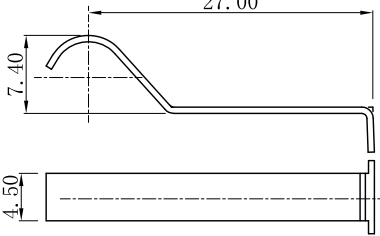
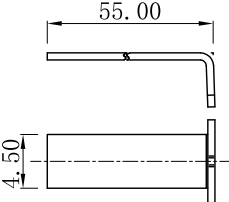
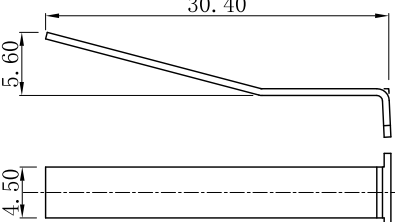


◆完全平端型胶壳/Terminals for Fully Flat Type Housing

(单位/Unit:mm)



◆其他手柄类型/Other Levers

<p>#01手柄 Lever01#</p> 	<p>#02手柄 Lever02#</p> 
<p>#03手柄 Lever03#</p> 	<p>#04手柄 Lever04#</p> 
<p>#05手柄 Lever05#</p> 	<p>#06手柄 Lever06#</p> 
<p>#110手柄 Lever110#</p> 	<p>#137手柄 Lever137#</p> 
<p>#164手柄 Lever164#</p> 	<p>#165手柄 Lever165#</p> 

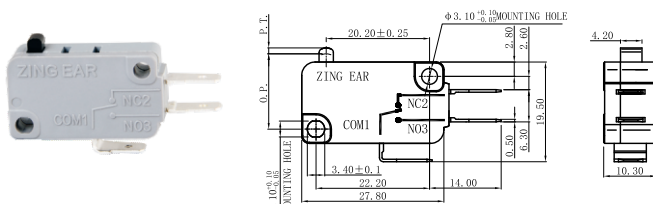
◆其他端子类型/Other Terminal Type

<p>L 左侧面PCB端子 Left Angled PCB Terminal</p>	<p>R 右侧面PCB端子 Right Angled PCB Terminal</p>	<p>T 螺孔端子 Screw Terminal</p>
<p>F 倾斜螺孔端子 Slant Screw Terminal</p>	<p>S 标准焊线端子 Standard Solder Terminal</p>	<p>K 长形孔焊线端子 Rectangle Hole Solder Terminal</p>
<p>M 短焊线端子 Short Solder Terminal</p>	<p>H1 RAST-5</p>	

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

(单位/Unit:mm)

◆柱式按挚 Plunger

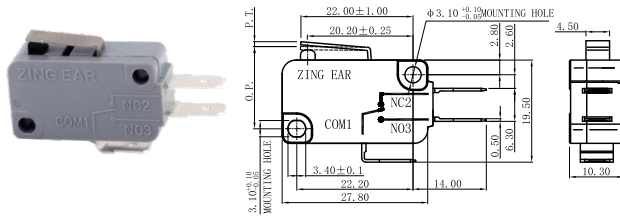


型号 Part No.	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP Max		
	(N) (gf)	(N) (gf)	(mm)	(mm)	(mm)	(mm)		
G5□□□-E1Z015	0.15	15	0.03	3	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z025	0.25	25	0.05	5	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z050	0.49	50	0.10	10	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z100	0.98	100	0.25	25	1.6	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

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

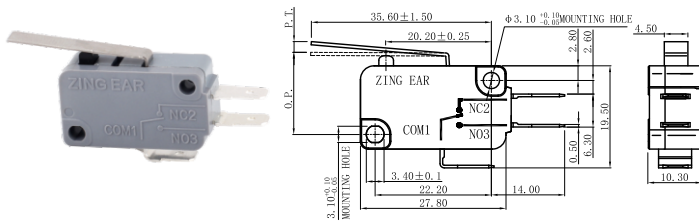
□单位/Unit:mm

◆短直柄 Short Straight Lever



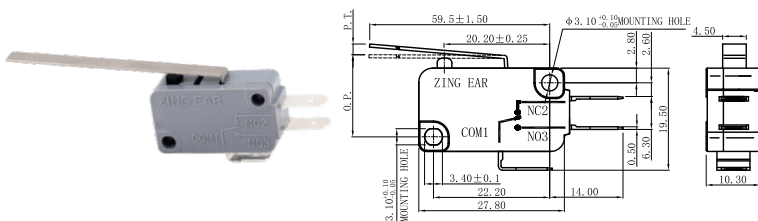
型号 Part No.	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP Min		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
G5□□□-E1Z015A01	0.15	15	0.03	3	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z025A01	0.25	25	0.05	5	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z050A01	0.49	50	0.10	10	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z100A01	0.98	100	0.25	25	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

◆标准直柄 Standard Straight Lever



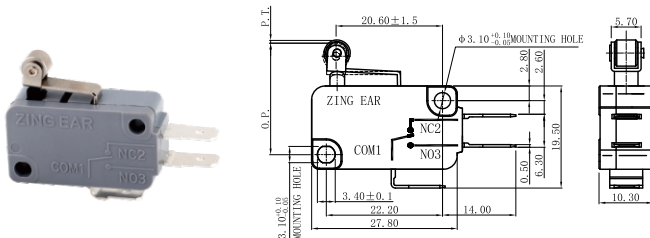
型号 Part No.	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP Min		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
G5□□□-E1Z015A02	0.10	10	0.02	2	3.2	1.3	1.2	15.3±0.5
G5□□□-E1Z025A02	0.15	15	0.02	2	3.2	1.3	1.2	15.3±0.5
G5□□□-E1Z050A02	0.29	30	0.05	5	3.2	1.3	1.2	15.3±0.5
G5□□□-E1Z100A02	0.59	60	0.10	10	3.2	1.3	1.2	15.3±0.5
G5□□□-E1Z200A02	1.18	120	0.20	20	3.2	1.3	1.2	15.3±0.5
G5□□□-E1Z300A02	1.77	180	0.29	30	3.2	1.3	1.2	15.3±0.5
G5□□□-E1Z400A02	2.35	240	0.39	40	3.2	1.3	1.2	15.3±0.5

◆长直柄 Long Straight Lever



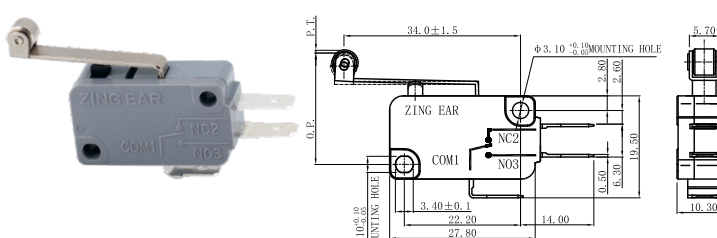
型号 Part No.	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP Min		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
G5□□□-E1Z015A03	0.07	7	0.02	2	6.4	2.6	2.4	15.3±3
G5□□□-E1Z025A03	0.10	10	0.02	2	6.4	2.6	2.4	15.3±3
G5□□□-E1Z050A03	0.15	15	0.02	2	6.4	2.6	2.4	15.3±3
G5□□□-E1Z100A03	0.29	30	0.05	5	6.4	2.6	2.4	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

◆短滚轮手柄 Short Roller Lever



型号 Part No.	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP Min		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
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

◆长滚轮手柄 Long Roller Lever



型号 Part No	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP Min		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
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

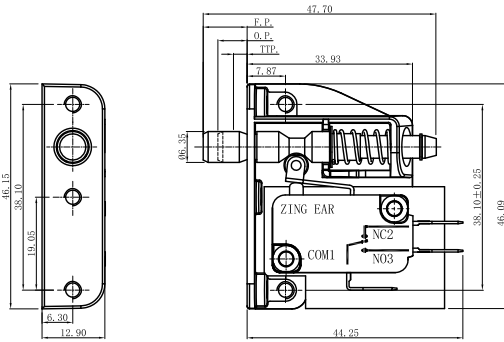
◆外形尺寸和操作特性/Dimensions and Operating Characteristics

(单位/Unit:mm)

◆G5D□□-□□1800F05-V



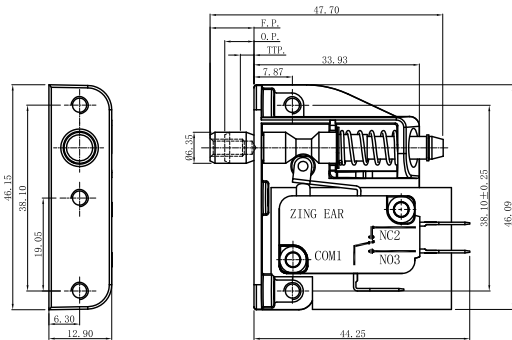
操作参数/Parameters				
OF Max (N)	FP Max (gf)	TTP Max (mm)	OP Min (mm)	OP Min (mm)
17.60	1800	9.5	3.18	5.16



◆G5D□□-□□1800J05-V



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



◆G5D□□-□□900J05-V



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

