

G5

基本微动开关 Basic Micro Switch

■ 特点 Features

- ◆ 结构紧凑,具有微小触点间隙,快速动作,高灵敏度和微小动作行程的特点
- ◆ 长寿命,高可靠性
- ◆ 拥有全球安规认证
- ◆ 接线端子种类齐全
- ◆ 动作力范围宽 7gf~600gf
- ◆ 多种温度等级 25T85 25T125 25T150
- ◆ PTL 等级有 175V, 250V, 600V 可供选择
- ◆ 配备各种形式操作柄
- ◆ 广泛应用于各种家用电器,电子设备,自动化设备,通讯设备,汽车电子,仪器仪表,电动工具等领域

■ 应用 Application

- ◆ 家用电器
- ◆ 电子设备
- ◆ 自动化设备
- ◆ 通讯设备
- ◆ 汽车电子
- ◆ 仪器仪表
- ◆ 电动工具等领域



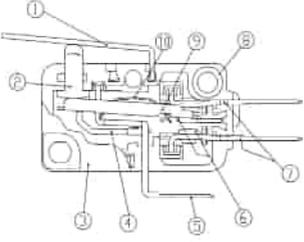
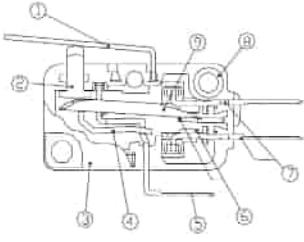
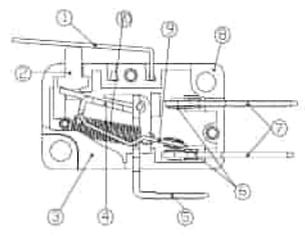
- ◆ Tight configuration, small contact gap, snap action, high sensitivity and small operating travel
- ◆ Long life, high reliability
- ◆ Global safety approvals
- ◆ Variety of terminals
- ◆ Wide operating force (7gf~600gf)
- ◆ Variety of temperature grade (25T85 25T125 25T150)
- ◆ With optional PTL grade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

- ◆ Appliance
- ◆ Electric Equipment
- ◆ Automatic Equipment
- ◆ Communication Equipment
- ◆ Car Electric
- ◆ Apparatus and Instrument
- ◆ Power Tool

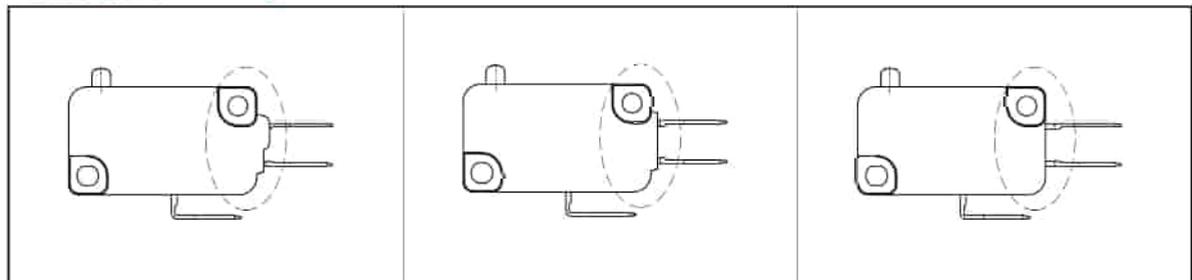
■ 特性参数 Parameters

工作速度	Operating speed	0.1mm -1m/s (与驱动方式有关/Related with actuator forms)
工作频率	Operating frequency	机械 60 次/分钟; 电气 15 次/分钟. Mechanical 60 cycles/min; Electrical 15 cycles/min.
绝缘电阻	Insulation resistance	≥100M Ω (500VDC)
接触电阻	Contact resistance	≤100m Ω (初始值/Initial value)
耐电压 Test Voltage	耐电压-同极不相接端子间/ Between each terminals of the same polarity	AC1000V, 50/60HZ, 1min.
	耐电压-带电流金属零件与外壳之间, 接线端与易触及的不带电流金属件之间 /Between current-carrying metal part and ground, and between each terminal and non- current carrying metal parts	AC1500V, 50/60HZ, 1min.
抗振动	Vibration resistance	10-55HZ, 1.5mm 两倍振幅 Double amplitude
抗冲击	Shock resistance	破坏 Destruction: 动作力 /OF> 1.0N:1000m/s ² (约/approx. 100G)max. 动作力 /OF ≤ 1.0N:400m/s ² (约/approx. 40G)max. 故障 Destruction: 动作力 /OF> 1.0N:200m/s ² (约/approx. 20G)max. 动作力 /OF ≤ 1.0N:100m/s ² (约/approx. 10G)max.
寿命	Life expectancy	机械 /Mechanical ≥10,000,000 次/cycles 或/or 1,000,000 次/cycles 电气 /Electrical ≥50,000 次/cycles 或/or 100,000 次/cycles
质量	Weight	约 6.2g (无操作柄) Approx. 6.2g (No lever).

■ 内部构造图/Inner Construction

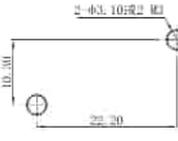
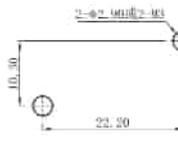
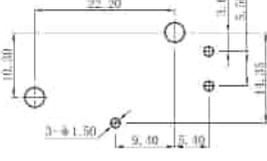
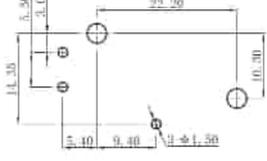
		
普通型 General Type	G5S05/G5T10	触点间距>3mm Contact Gap>3mm
1. 操作柄/Lever 2. 按犁/Plunger 3. 胶盖/Cover	4. 支杆/Internal Lever 5. 公共端子/Common Terminal 6. 触点/Contacts	7. NC/NO端子/NO/NC Terminals 8. 胶座/Case 9. 动片/Movable Plate 10. 弹片/弹簧 (右图) Spring

■ 外形特征/Housing Outline Characteristics

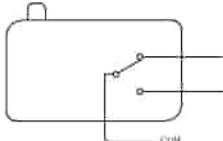
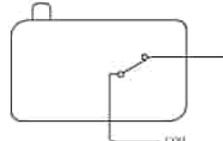
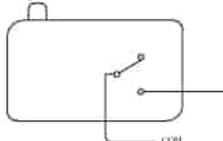


■ 安装孔尺寸/Mounting Hole Dimensions

(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

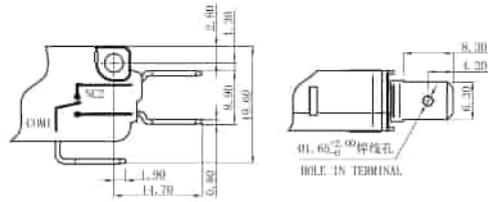
公共端子类型/Common Terminal Type	"Z"转换式SPDT	"C"常闭式SPST-NC	"P"常开式SPST-NO
公共端在底部 Common Terminal at bottom			

■ 接线端子尺寸/Connect Terminal Dimensions

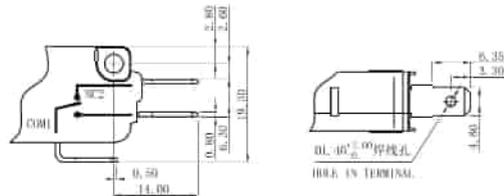
◆ 基本型胶壳/Terminals for Type Housing

(单位/Unit:mm)

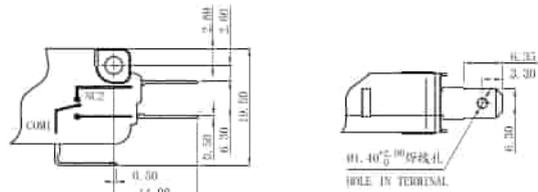
C基本型带250#快速连接端子
Basic Type Housing with
250#Quick Connect Terminals, T=0.8(C)



D基本型带187#快速连接端子
Basic Type Housing with
187#Quick Connect Terminals, T=0.8(D)



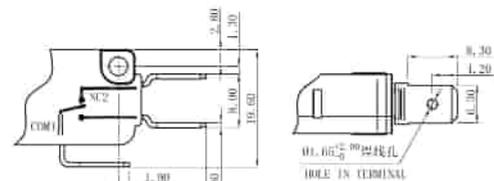
E基本型带187#快速连接端子
Basic Type Housing with
187#Quick Connect Terminals, T=0.5(E)



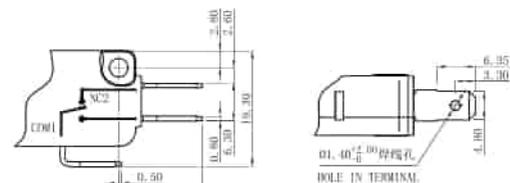
◆ 平端型胶壳/Terminals for Flat Type Housing

(单位/Unit:mm)

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

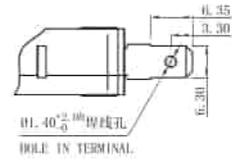
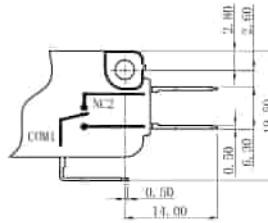


D1平端型187#快速连接端子
Flat Type Housing with
187#Quick Connect Terminals, T=0.8(D1)



(单位/Unit:mm)

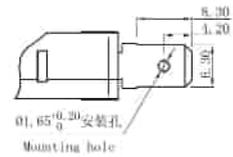
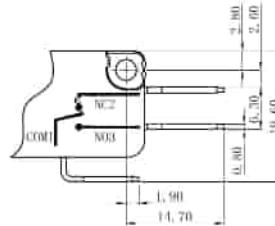
E1平端型带187#快速连接端子
Flat Type Housing with
187#Quick Connect Terminals, T=0.5 (E1)



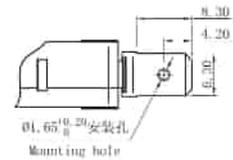
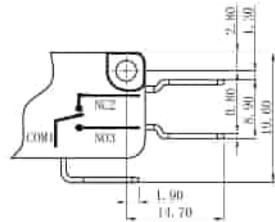
◆完全平端型胶壳/Terminals for Fully Flat Type Housing

(单位/Unit:mm)

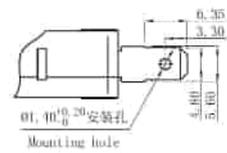
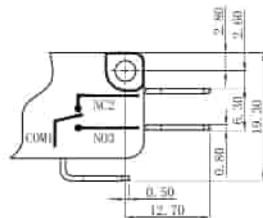
B2完全平端型/B2 Fully Flat Type
250#快速连接端子
250#Quick Connect Terminals, T=0.8



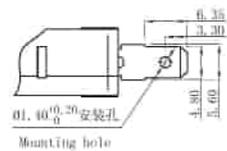
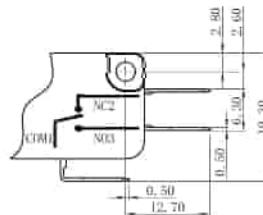
C2完全平端型带250#快速连接端子
Fully Flat Housing with
250#Quick Connect Terminals, T=0.8 (C2)



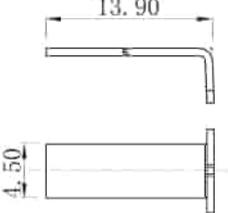
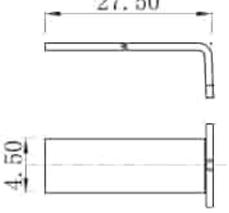
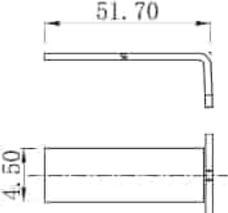
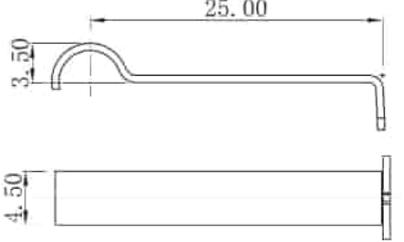
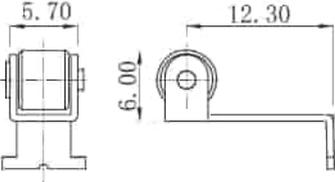
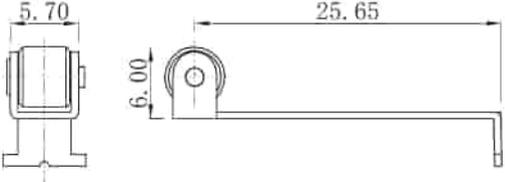
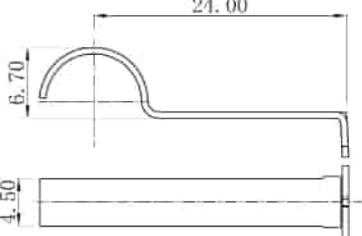
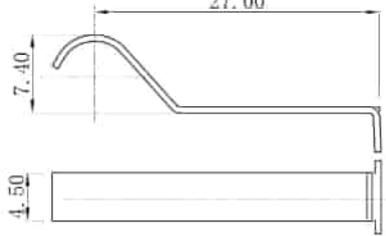
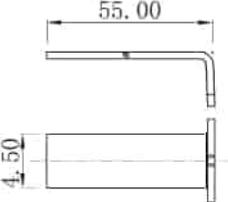
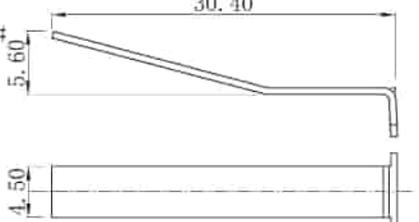
D2完全平端型带187#快速连接端子
Fully Flat Housing with
187#Quick Connect Terminals, T=0.8 (D2)



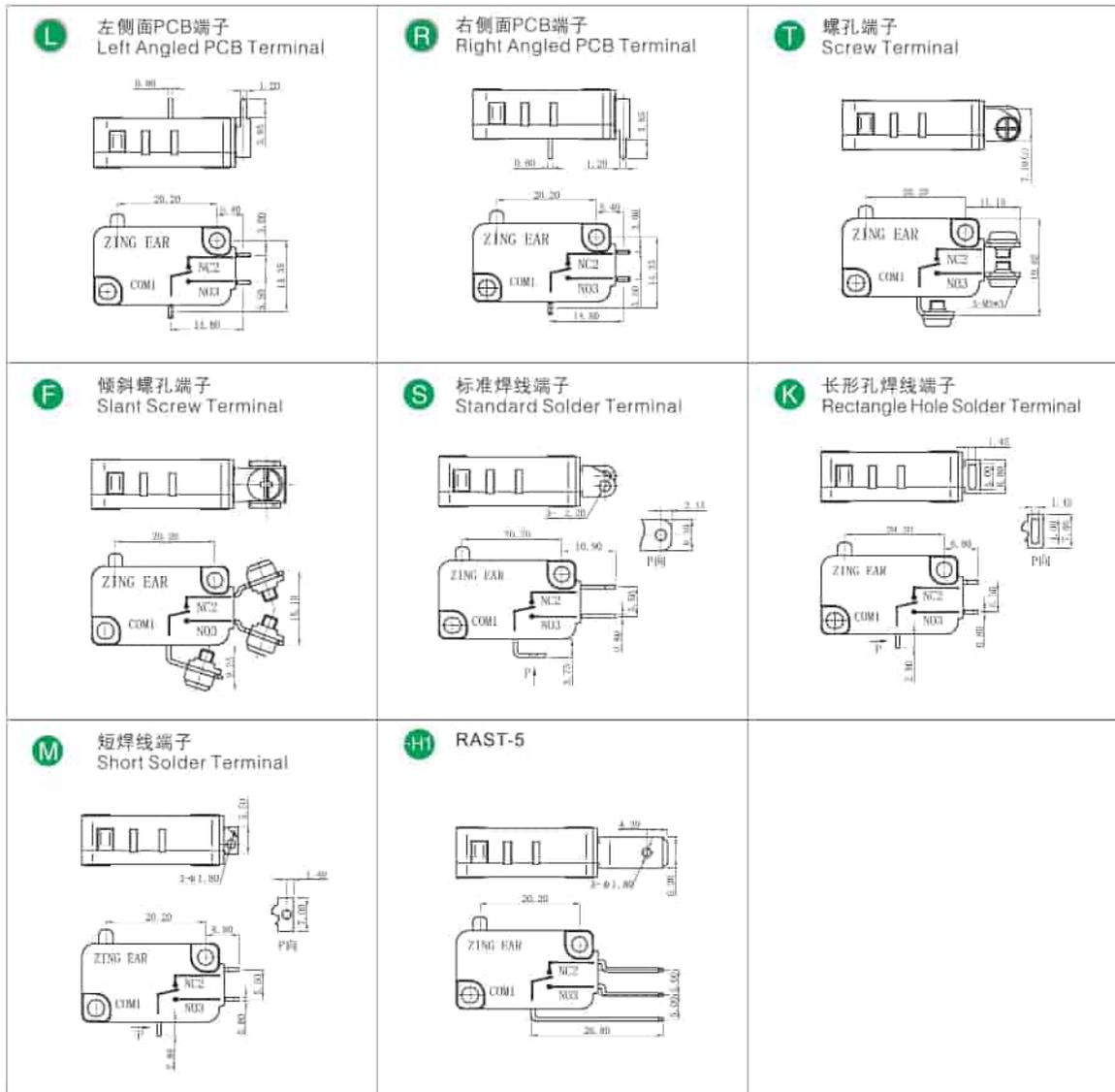
E2完全平端型带187#快速连接端子
Fully Flat Housing with
187#Quick Connect Terminals, T=0.5 (E2)



◆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> 

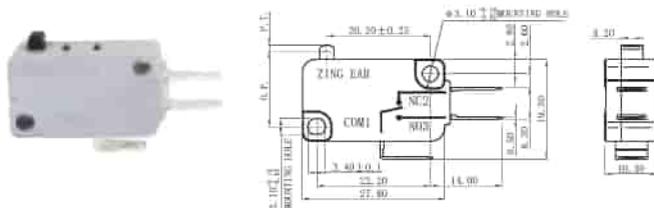
◆其他端子类型/Other Terminal Type



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

(单位/Unit:mm)

◆柱式按单 Plunger

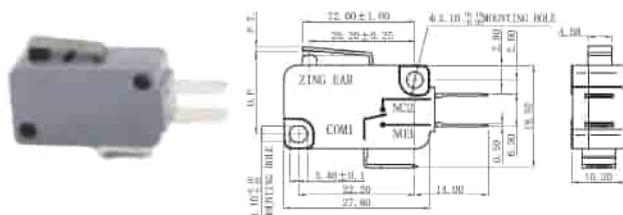


型号 Part No.	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	HD Max	OP Min		
	(N)	(rF)	(N)	(rF)	(mm)	(mm)		
65□□□-E12015	90	15	0.03	3	1.6	0.8	0.4	14.7±0.5
65□□□-E12025	90	25	0.05	5	1.6	0.8	0.4	14.7±0.5
65□□□-E12050	99	50	0.10	10	1.6	0.8	0.4	14.7±0.5
65□□□-E12100	98	100	0.25	25	1.6	0.8	0.4	14.7±0.5
65□□□-E12200	196	200	0.49	50	1.6	0.8	0.4	14.7±0.5
65□□□-E12300	294	300	0.74	75	1.6	0.8	0.4	14.7±0.5
65□□□-E12400	392	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

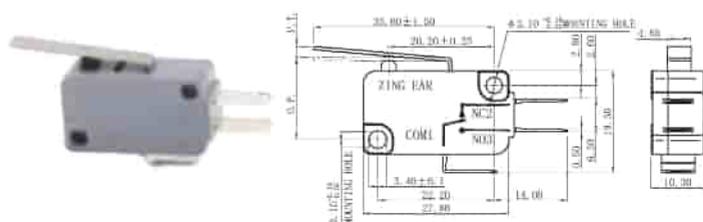
(单位/Unit:mm)

◆短直柄 Short Straight Lever



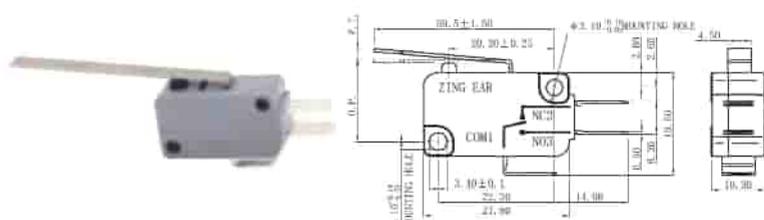
型号 Part No.	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
GS□□□-E1Z015A01	0.15	15	0.03	3	1.6	0.8	0.4	15.3±0.5
GS□□□-E1Z025A01	0.25	25	0.05	5	1.6	0.8	0.4	15.3±0.5
GS□□□-E1Z050A01	0.49	50	0.10	10	1.6	0.8	0.4	15.3±0.5
GS□□□-E1Z100A01	0.98	100	0.25	25	1.6	0.8	0.4	15.3±0.5
GS□□□-E1Z200A01	1.96	200	0.49	50	1.6	0.8	0.4	15.3±0.5
GS□□□-E1Z300A01	2.94	300	0.74	75	1.6	0.8	0.4	15.3±0.5
GS□□□-E1Z400A01	3.92	400	0.98	100	1.6	0.8	0.4	15.3±0.5

◆标准直柄 Standard Straight Lever



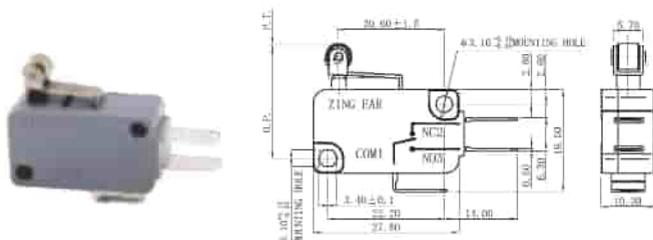
型号 Part No.	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
GS□□□-E1Z015A02	0.10	10	0.02	2	3.2	1.3	1.2	15.3±0.5
GS□□□-E1Z025A02	0.15	15	0.02	2	3.2	1.3	1.2	15.3±0.5
GS□□□-E1Z050A02	0.29	30	0.05	5	3.2	1.3	1.2	15.3±0.5
GS□□□-E1Z100A02	0.59	60	0.10	10	3.2	1.3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

◆长直柄 Long Straight Lever



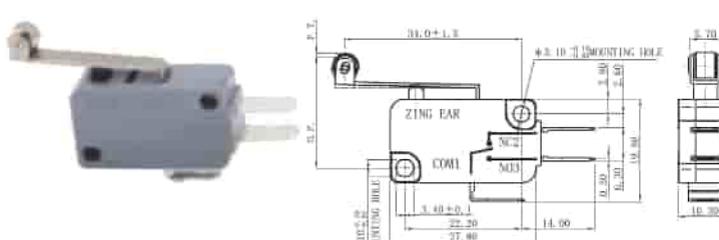
型号 Part No.	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
GS□□□-E1Z015A03	0.07	7	0.02	2	6.4	2.6	2.4	15.3±0.3
GS□□□-E1Z025A03	0.10	10	0.02	2	6.4	2.6	2.4	15.3±0.3
GS□□□-E1Z050A03	0.15	15	0.02	2	6.4	2.6	2.4	15.3±0.3
GS□□□-E1Z100A03	0.29	30	0.05	5	6.4	2.6	2.4	15.3±0.3
GS□□□-E1Z200A03	0.59	60	0.10	10	6.4	2.6	2.4	15.3±0.3
GS□□□-E1Z300A03	0.88	90	0.15	15	6.4	2.6	2.4	15.3±0.3
GS□□□-E1Z400A03	1.18	120	0.20	20	6.4	2.6	2.4	15.3±0.3

◆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		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
GS□□□-E1Z015A05	0.15	15	0.03	3	1.6	0.8	0.4	20.6±0.8
GS□□□-E1Z025A05	0.30	30	0.05	5	1.6	0.8	0.4	20.6±0.8
GS□□□-E1Z050A05	0.59	60	0.10	10	1.6	0.8	0.4	20.6±0.8
GS□□□-E1Z100A05	1.18	120	0.20	20	1.6	0.8	0.4	20.6±0.8
GS□□□-E1Z200A05	2.35	240	0.39	40	1.6	0.8	0.4	20.6±0.8
GS□□□-E1Z300A05	3.43	350	0.59	60	1.6	0.8	0.4	20.6±0.8
GS□□□-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

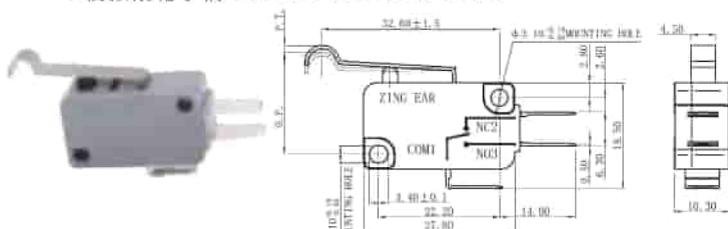


型号 Part No.	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
GS□□□-E1Z015A06	0.10	10	0.02	2	3.2	1.3	1.2	20.6±1.0
GS□□□-E1Z025A06	0.15	15	0.02	2	3.2	1.3	1.2	20.6±1.0
GS□□□-E1Z050A06	0.29	30	0.05	5	3.2	1.3	1.2	20.6±1.0
GS□□□-E1Z100A06	0.59	60	0.10	10	3.2	1.3	1.2	20.6±1.0
GS□□□-E1Z200A06	1.18	120	0.20	20	3.2	1.3	1.2	20.6±1.0
GS□□□-E1Z300A06	1.77	180	0.29	30	3.2	1.3	1.2	20.6±1.0
GS□□□-E1Z400A06	2.35	240	0.39	40	3.2	1.3	1.2	20.6±1.0

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

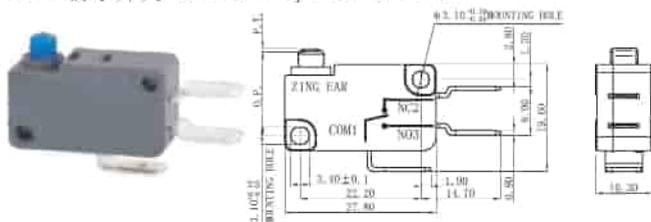
(单位/Unit:mm)

◆模拟滚轮手柄 Simulated Roller Lever



型号 Part NO	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP Min	OP Max	
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	
G5□□□-E1Z015A04	0.10	10	0.02	2	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z025A04	0.15	15	0.02	2	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z035A04	0.29	30	0.02	2	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z100A04	0.59	60	0.10	10	3.2	1.3	1.2	18.0±1.5
G5□□□-E1Z200A04	1.18	120	0.20	20	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z300A04	1.77	180	0.30	30	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z400A04	2.35	240	0.39	40	3.2	1.3	1.2	18.3±1.5

◆IP64防水开关 IP64 Waterproof Switch



型号 Part NO	操作参数/Parameters							
	OF Max	RF Min	PT Max	OT Min	MD Max	OP Min	OP Max	
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	
G5F□□-C1Z300	4.92	500	1.96	200	1.6	0.8	0.4	15.0±0.5

G5系列/Series-G5D门开关/Zinc Alloy Door Switch

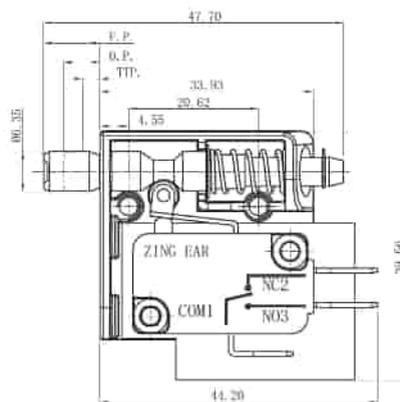
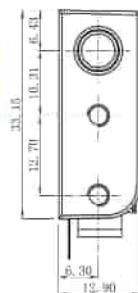
◆外形尺寸和操作特性/Dimensions and Operating Characteristics

(单位/Unit:mm)

◆G5D□□-□□1800F05-U

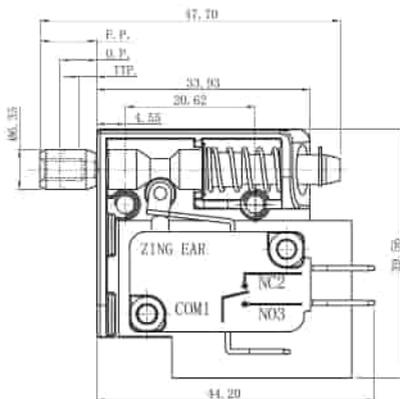
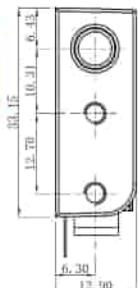


操作参数/Parameters					
OF Max	FP Max	TTP Min	OP Min	OP Max	
(N)	(gf)	(mm)	(mm)	(mm)	
17.60	1800	9.5	3.18	5.16	



◆G5D□□-□□1800J05-U

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



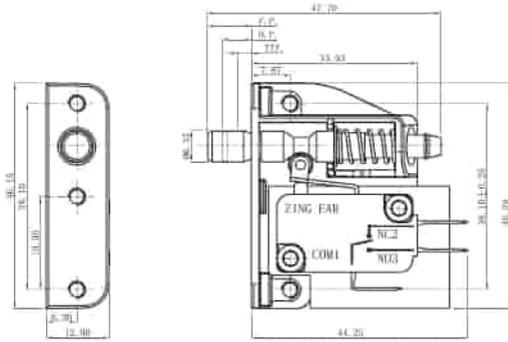
◆外形尺寸和操作特性/Dimensions and Operating Characteristics

(单位/Unit:mm)

◆G5D□□-□□1800F05-V

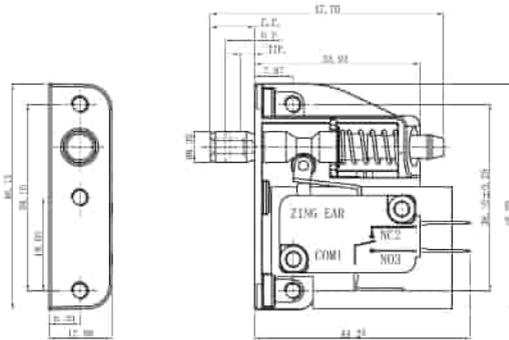


操作参数/Parameters				
OF Max (N)	FP (gf)	TTP Max (mm)	OP Min (mm)	OP Min (mm)
17.90	1800	9.5	3.18	5.16

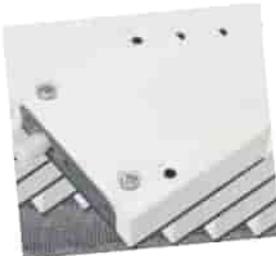


◆G5D□□-□□1800J05-V

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

