

G5系列 / G5 Series

基本型微动开关 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-40°C~+150°C, 200°C可选择
 - ◆ PTI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
- Tight Configuration, Small Contact Gap, Snap Action, High Sensitivity and Small Operating Travel
 - Long Life, High Reliability
 - Global Safety Approvals
 - Variety of Terminals
 - Wide Range Operating Force(7gf~600gf)
 - Wide Range Temperature Grade(-40°C~+150°C) ,200°C Optional
 - With Optional PTI Grade(175v,250v,600v)
 - Variety of Levers
 - Widely Used in Home Appliances, Electronic Equipments, Automatic Machines, Communication Equipments, Auto Electronics, Apparatus and Instrument, Power Tool etc

■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
- Home Appliance
 - Electronic Equipments
 - Automatic Equipments
 - Communication Equipments
 - Auto Electronics
 - Apparatus and Instruments
 - Power Tools

■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	≥100MΩ (500VDC)	
接触电阻 Contact Resistance	≤100m Ω (初始值 / Initial value)	
耐电压 Voltage Resistance	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-带金属零件与外壳之间, 接线端与易触及的不带金属零件之间/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 Service Life	机械/Mechanical ≥ 10,000,000次/cycles 或/or 1,000,000次/cycles 或/or 50,000次/cycles	
	电气/Electrical ≥ 50,000次/cycles 或/or 100,000次/cycles, 取决于类型 Depends on Part No.	
单重 Unit Net Weight	约6.2g (无操作柄) Approx. 6.2g(No lever).	

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

基本形/Basic Type 配端子:C,D,E,L,R... Optional Terminal	平端形/Flat Type 配端子:C1,D1,E1,L1,R1... Optional Terminal	完全平端形/Fully Flat Type 配端子:C2,D2,E2,L2,R2... Optional Terminal

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

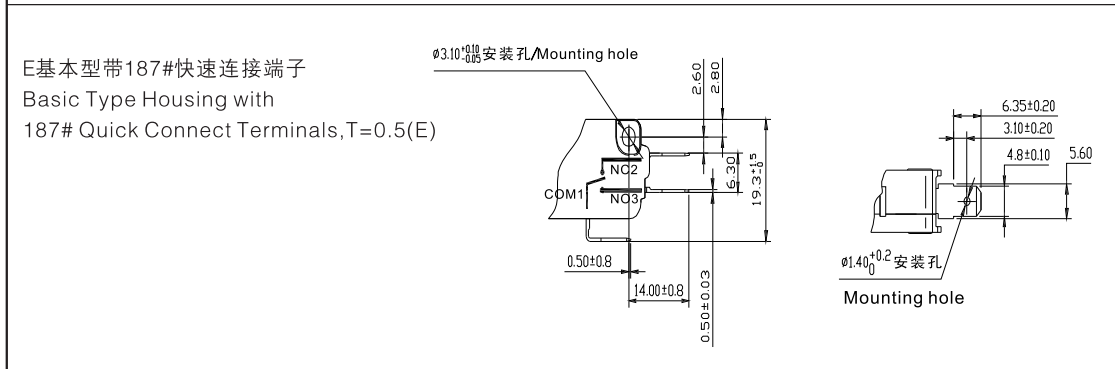
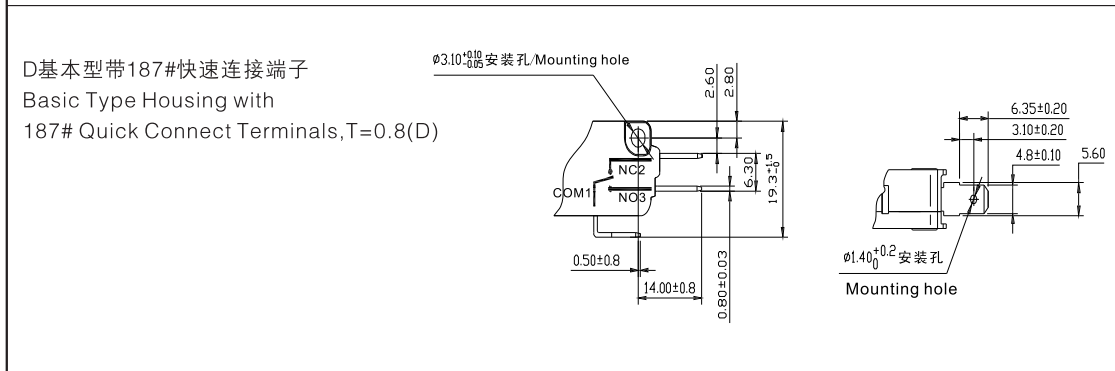
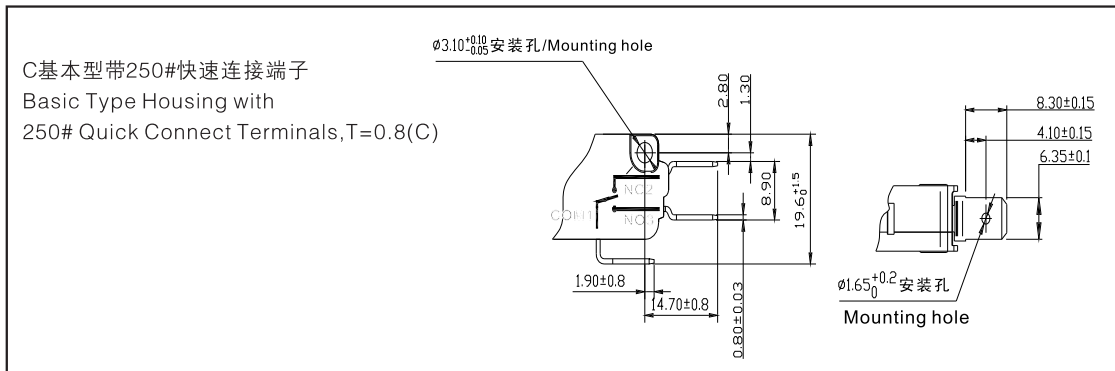
接触形式图/Circuit Configuration

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

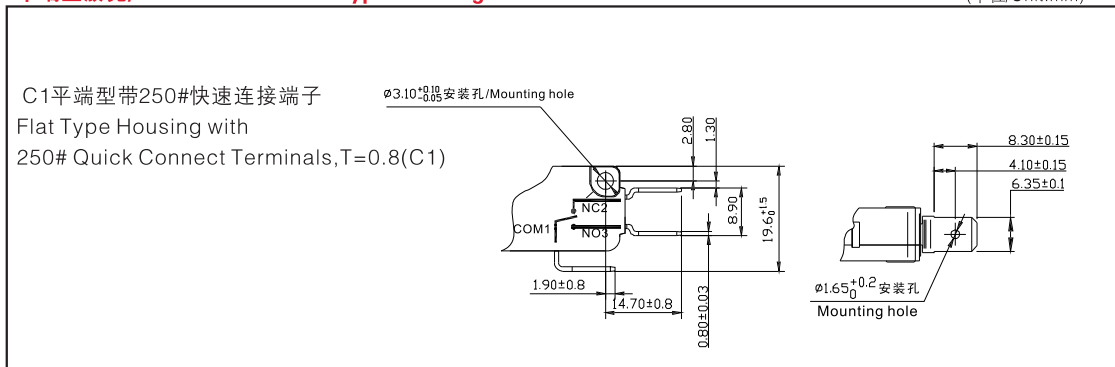
◆ 基本型胶壳/Terminals for Basic Type Housing

(单位/Unit:mm)

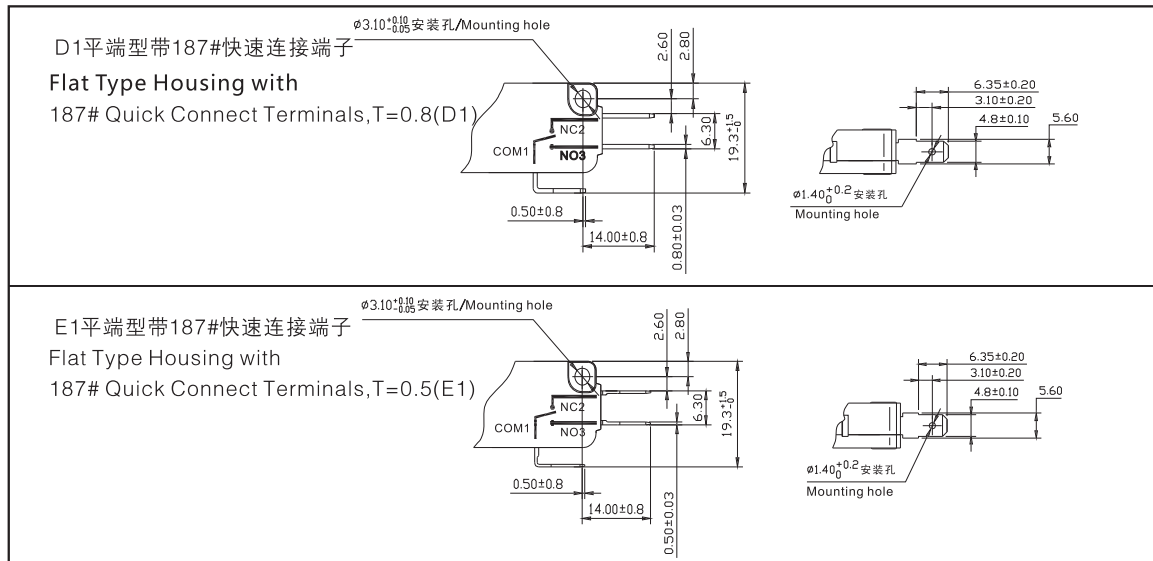


◆ 平端型胶壳/Terminals for Flat Type Housing

(单位/Unit:mm)

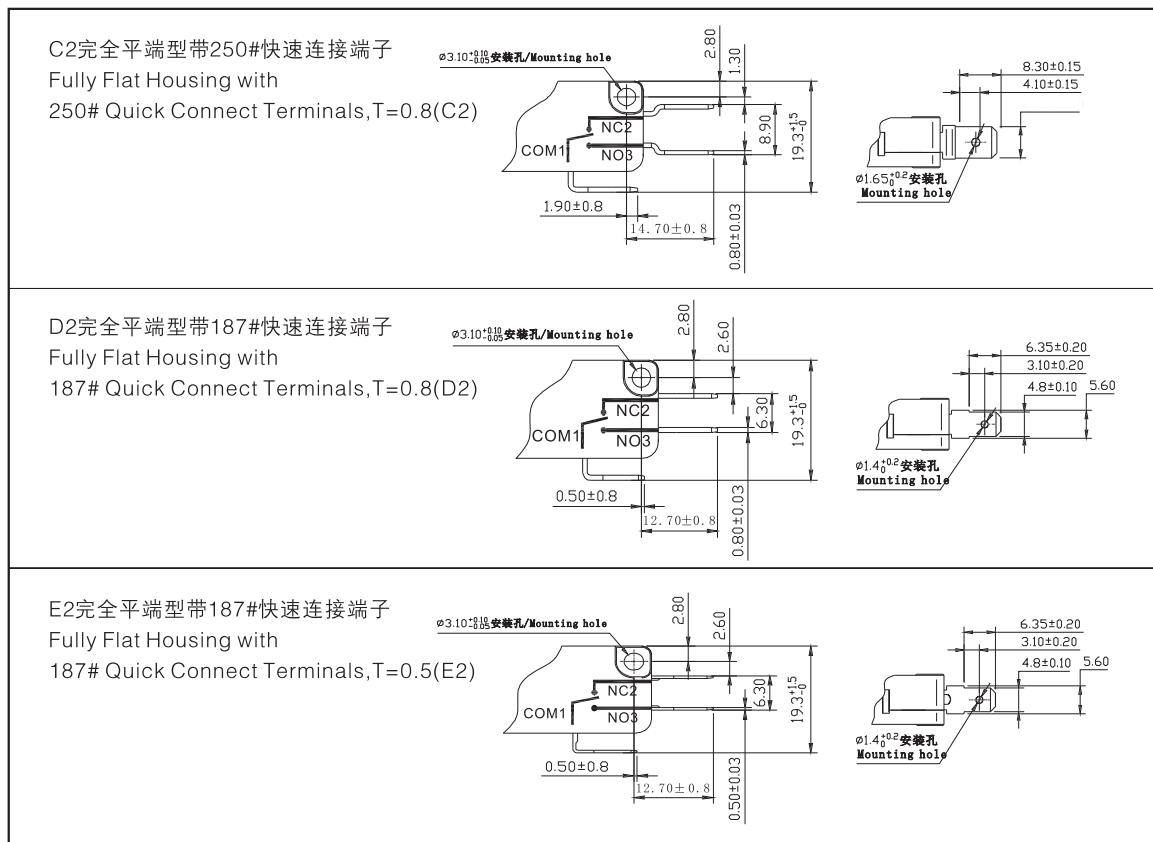


(单位/Unit:mm)



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

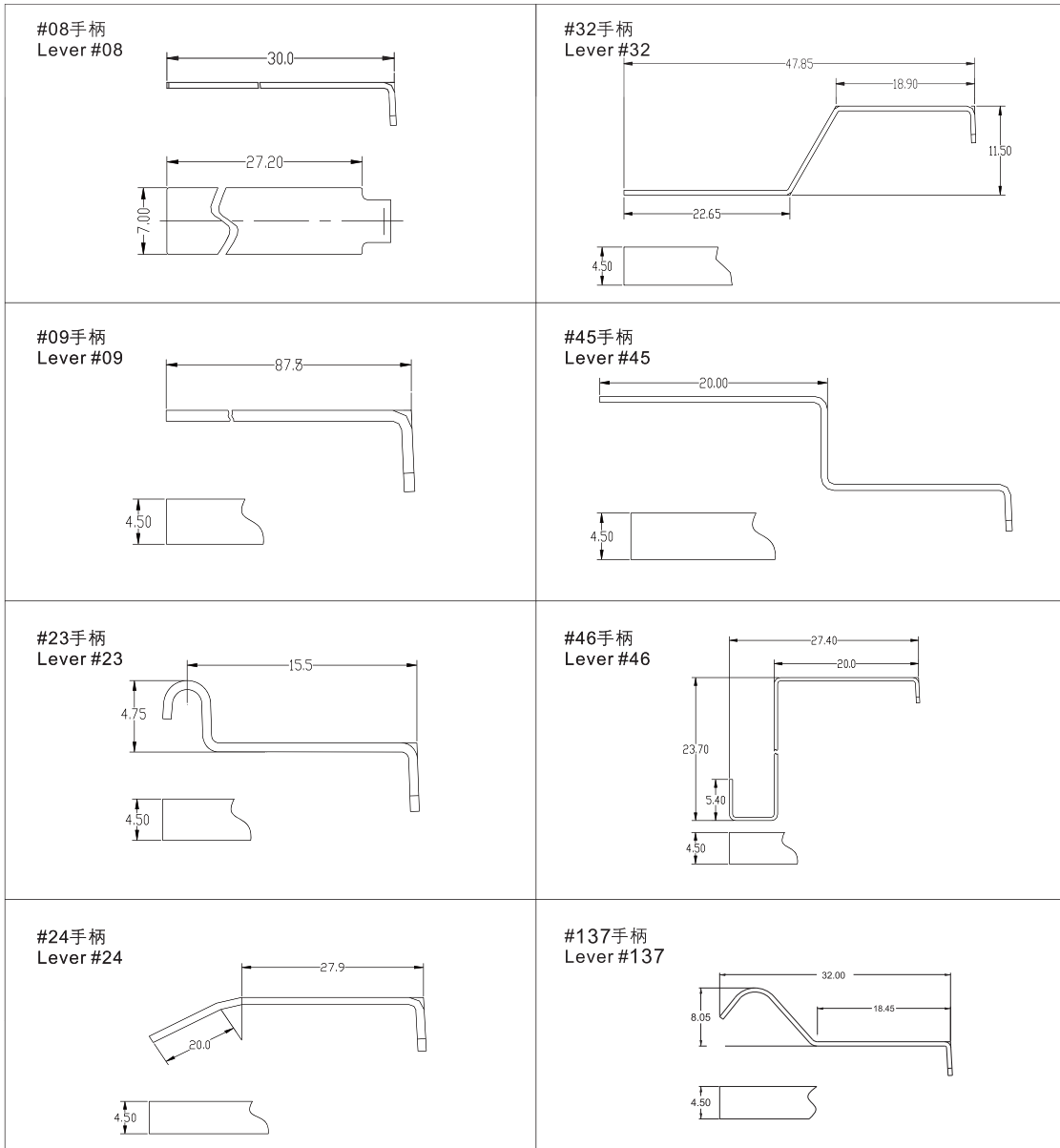
(单位/Unit:mm)



◆ 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>H RAST-5</p>	<p>N RAST-7</p>
<p>P 直PCB端子 Straight PCB Terminal</p>	<p>P型折弯PCB端子 P Type Bended PCB terminal</p>	<p>IP67防尘防水 (端子除外) IP67 Water Proof and Dust Proof (Exclude Terminals)</p>

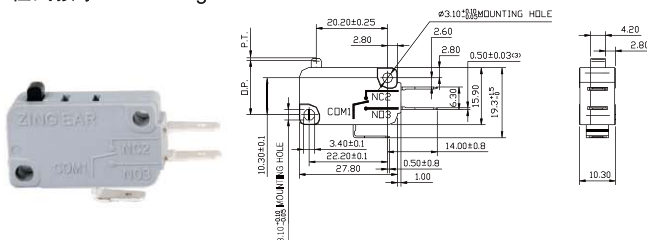
◆ 其他手柄类型/Other Lever Type



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

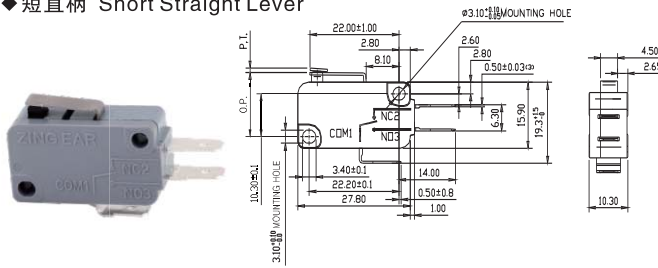
(单位/Unit:mm)

◆ 柱式按摩 Pin Plunger



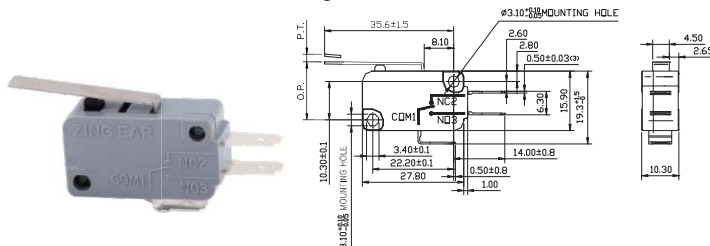
型号 Part No.	操作参数/Parameters							
	OF Max. (N)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)		
G5□□□-E1Z015	0.15	15	0.03	3	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z025	0.25	25	0.05	5	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z050	0.49	50	0.10	10	1.6	0.8	0.4	14.7±0.5
G5□□□-E1Z100	0.98	100	0.25	25	1.6	0.8	0.4	14.7±0.5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

◆短直柄 Short Straight Lever



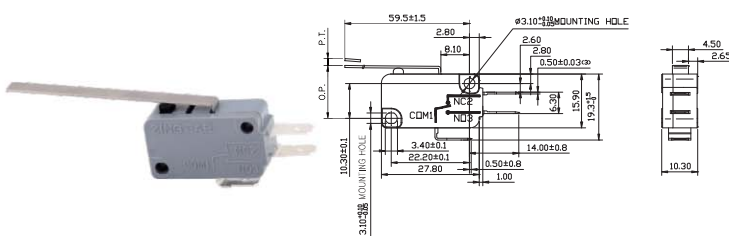
型号 Part No.	操作参数/Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP (mm)
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	
G5□□□-E1Z015A01	0.15	15	0.03	3	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z025A01	0.25	25	0.05	5	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z050A01	0.49	50	0.10	10	1.6	0.8	0.4	15.3±0.5
G5□□□-E1Z100A01	0.98	100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



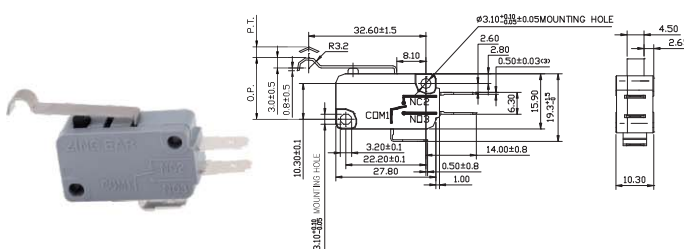
型号 Part No.	操作参数/Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP (mm)
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	
G5□□□-E1Z015A02	0.10	10	0.02	2	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z025A02	0.15	15	0.02	2	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z050A02	0.29	30	0.05	5	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z100A02	0.59	60	0.10	10	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z200A02	1.18	120	0.20	20	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z300A02	1.77	180	0.29	30	3.2	1.3	1.2	15.3±1.5
G5□□□-E1Z400A02	2.35	240	0.39	40	3.2	1.3	1.2	15.3±1.5

◆长直柄 Long Straight Lever



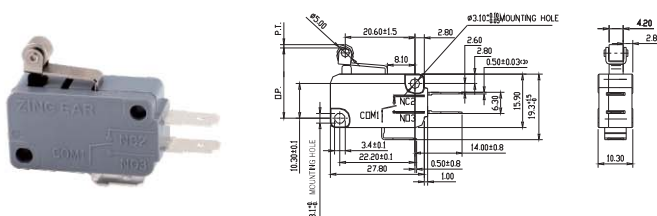
型号 Part No.	操作参数/Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP (mm)
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	
G5□□□-E1Z015A03	0.07	7	0.02	2	6.4	2.6	2.4	15.3±3
G5□□□-E1Z025A03	0.10	10	0.02	2	6.4	2.6	2.4	15.3±3
G5□□□-E1Z050A03	0.15	15	0.02	2	6.4	2.6	2.4	15.3±3
G5□□□-E1Z100A03	0.29	30	0.05	5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

◆模拟滚轮手柄 Simulated Roller Lever



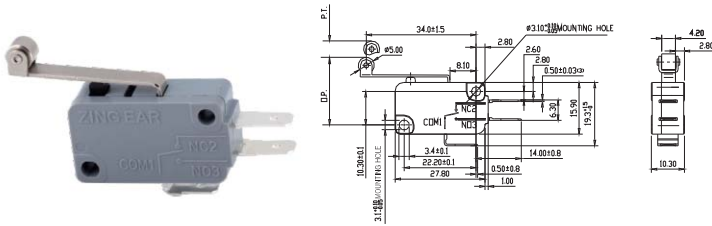
型号 Part No.	操作参数/Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP (mm)
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	
G5□□□-E1Z015A04	0.10	10	0.02	2	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z025A04	0.15	15	0.02	2	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z050A04	0.29	30	0.02	2	3.2	1.3	1.2	18.3±1.5
G5□□□-E1Z100A04	0.59	60	0.10	10	3.2	1.3	1.2	18.3±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

◆短滚轮手柄 Short Roller Lever



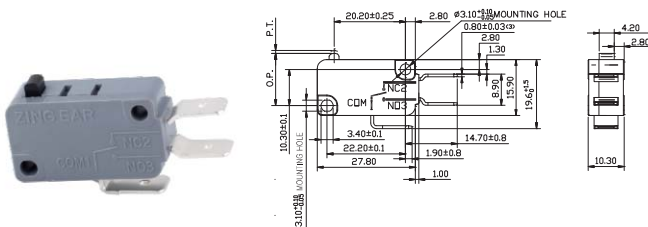
型号 Part No.	操作参数/Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP (mm)
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	
G5□□□-E1Z015A05	0.15	15	0.03	3	1.6	0.8	0.4	20.6±0.8
G5□□□-E1Z025A05	0.30	30	0.05	5	1.6	0.8	0.4	20.6±0.8
G5□□□-E1Z050A05	0.59	60	0.10	10	1.6	0.8	0.4	20.6±0.8
G5□□□-E1Z100A05	1.18	120	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



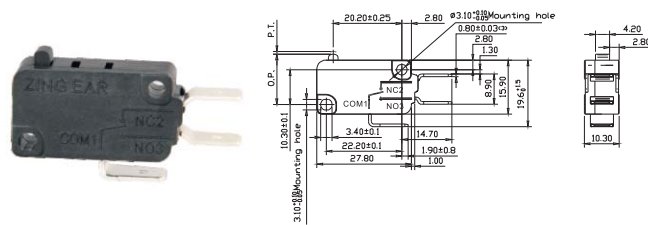
型号 Part No.	操作参数/Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5□□□-E1Z015A06	0.10	10	0.02	2	3.2	1.3	1.2	20.6±1.6
G5□□□-E1Z025A06	0.15	15	0.02	2	3.2	1.3	1.2	20.6±1.6
G5□□□-E1Z050A06	0.29	30	0.05	5	3.2	1.3	1.2	20.6±1.6
G5□□□-E1Z100A06	0.59	60	0.10	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

◆柱式按挚250#端子 Pin Plunger, 250# Terminals



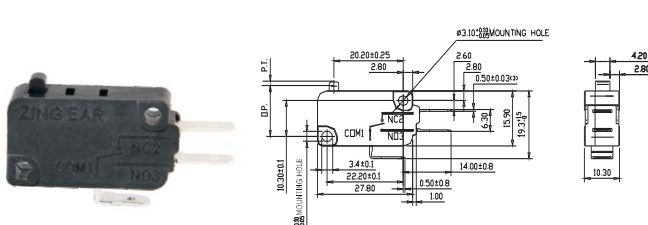
型号 Part No.	操作参数/Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5□□□-C1Z015	0.15	15	0.03	3	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z025	0.25	25	0.05	5	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z050	0.49	50	0.10	10	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z100	0.98	100	0.25	25	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z200	1.96	200	0.49	50	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z300	2.94	300	0.74	75	1.6	0.8	0.4	14.7±0.5
G5□□□-C1Z400	3.92	400	0.98	100	1.6	0.8	0.4	14.7±0.5

◆柱式按挚带头壳体250#端子 Pin Plunger Basic Type Housing, 250# Terminals



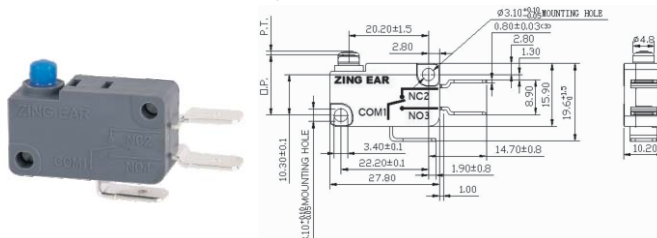
型号 Part No.	操作参数/Parameters							
	OF Max.		RF Min.		PT Max.	OT Min.	MD Max.	OP
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5□□□-CZ015	0.15	15	0.03	3	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ025	0.25	25	0.05	5	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ050	0.49	50	0.10	10	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ100	0.98	100	0.25	25	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ200	1.96	200	0.49	50	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ300	2.94	300	0.74	75	1.6	0.8	0.4	14.7±0.5
G5□□□-CZ400	3.92	400	0.98	100	1.6	0.8	0.4	14.7±0.5

◆柱式按挚带头壳体187#端子 Pin Plunger Basic Type Housing, 187# Terminals



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)	(mm)	(mm)
G5□□□-EZ015	0.15	15	0.03	3	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ025	0.25	25	0.05	5	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ050	0.49	50	0.10	10	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ100	0.98	100	0.25	25	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ200	1.96	200	0.49	50	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ300	2.94	300	0.74	75	1.6	0.8	0.4	14.7±0.5
G5□□□-EZ400	3.92	400	0.98	100	1.6	0.8	0.4	14.7±0.5

◆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
	(N)	(gf)	(N)	(gf)	(mm)	(mm)	(mm)	(mm)
G5F□□-C1Z300	2.94	300	0.74	75	1.6	0.8	0.4	14.7±0.5