

# G9系列 / Series-G91



## 小型防尘微动开关 Dustproof Mini Micro Switch



### ■特点/Features

- ◆ 体型小巧，结构紧凑
- ◆ 长寿命，高可靠性
- ◆ 端子种类齐全
- ◆ 配备各种形式操作柄
- ◆ 广泛应用于家用及工业控制等领域
- Small Compact Size
- Long Life, High Reliability
- Variety of Terminals and Levers
- Widely Used in Auto, Appliance and Other Industry Control

### ■应用/Application

- ◆ 汽车/Auto
- ◆ 电话/Phone
- ◆ 空调/Air-Conditioner
- ◆ 计算机/Computer
- ◆ 报警器/Alarm
- ◆ 计算器/Timer
- ◆ 混合器与切肉刀/Mixer&Meat Grinder
- ◆ 传真机/Fax Machine
- ◆ 钱币分类机/Money Sorter
- ◆ 玩具汽车/Toy Car

### ■特性参数/Parameters:

额定值/Rating	P1	ENEC/UL:0.1A 125/250V 48VDC 触点可选镀金/Gold Plated Contact Optional
	05	ENEC:5A 125/250VAC;UL: 5A 1/8HP, 125/250VAC
	10	ENEC:10(1.5)A 125/250VAC;UL:10.1A 1/4HP 125/250VAC
操作频率 Operating Frequency	电气/Electrical	10~30次/分 cycles/minute
	机械/Mechanical	120次/分 cycles/minute
初始接触电阻/Contact Resistance(Initiative)		100m $\Omega$ Max
绝缘电阻/Insulation Resistance(at 500VDC)		100M $\Omega$ Min
抗电强度/Dielectric Strength		AC 1,000V RMS (50~60Hz)
操作温度/Operating Temperature		-40° C ~ +125° C 或/or -40° C ~ +85° C
保存湿度/Storage Humidity		85% RH Max
寿命/Service Life	电气/Electrical	10,000 ~ 100,000次/cycles(取决于具体型号/Depend on part No.)
	机械/Mechanical	1,000,000次/cycles

## G91系列微动开关订货型号指引 G91 Series Micro Switch Ordering Instruction

G91	05	150	S	00	D	1	
Switch Type 开关类别	Electrical Rating 额定负载	Operating Force at pin Plunger, Max 操作力(最大值) 数据在不带操作柄测得	Terminal Style 端子类型	Lever Type 操作柄类型	Construction 接触形式	Circuit Code 接触形式	Special Designator 特别设计代码
G91 Series Micro-Switch G91系列微动开关	P1 ENEC/CQC: 0.1A 125/250VAC 48VDC u 25T125 5E4 UL/CUL: 0.1A 125/250VAC 48VDC	100 100gf Max.	S Solder Connect 焊接端子	00 No lever 不带操作柄 Pin Plunger (Spherical surface) 柱式按掣(球面按掣)	D 安装孔2.30mm Mounting Hole 2.30mm	1 SPDT 单极双投	General 通用型 (温度等级/Tempetratre grade 40T125)
	05 ENEC/CQC: 5A 125/250VAC5E4 u 40T125 UL/CUL: 5A 125/250VAC	150 150gf Max.	P Straight PCB connect(0.6mm wide) 直PCB 端子 (0.6mm宽) 底座有凸台	0A Cambered Surface 弧面按掣 用于带手柄型号	E 双侧安装柱 Φ1.8mmX2.8mm two sides posts Φ1.8mmX2.8mm	2 SPST - NC 单极单投 -常闭	T Temperatnre grade 40T85 (温度等级40T85)
	10 ENEC/CQC: 10(1.5)A 125/250VAC u 40T125 UL/cUL: 10.1A 1/4HP 125/250VAC	250 250gf Max.  300 300gf Max.	D 0.11"x0.023" Quick connect 110#快速连接端子 2.80X0.5mm	R 右侧面PCB 端子 Right side PCB connect	01 Short Straight Lever 17.7 短直柄17.7mm	F 右侧安装柱 Φ1.8mmX2.8mm Right sides posts Φ1.8mmX2.8mm	3 SPST - NO 单极单投 -常开
			L 左侧面PCB 端子 Left side PCB connect	02 Std. Straight Lever 19.9 标准直柄 19.9mm	G 左侧安装柱 Φ1.8mmX2.8mm left sides posts Φ1.8mmX2.8mm		
			K wide Straight PCB connect(0.6mm wide) 宽直PCB 端子 (1.3mm宽) 底座有凸台	03 Long Straight Lever 25.8 长直柄25.8mm	... Other 其他		
			E Wires leads to bottom(500mm) 底面出线 (500mm长)	04 Long Straight Lever 55.30 04#手柄 55.30mm			
			F Wires leads to side(500mm) (opposite to plunger) 侧面出线-按掣相对侧 (500mm长)	05 Small Simulated Roller Lever 15.9mm 小型模拟滚轮手柄15.9mm			
			G Wires leads to side(500mm) (plunger side) 侧面出线-按掣相对侧 (500mm长)	06 Roller Lever 15.8mm 带滚轮手柄 15.8mm			
			... Other 其他	07 Small Simulated Roller Lever18.15mm 小型模拟滚轮			
				08 Small Simulated Roller Lever19.00mm 小型模拟滚轮			

AWG Type (for wire type only) 线号 (仅适用于带线型)	AWG Number (For with Wire type only) 线规 (仅适用于带线型)	Wire length 线长
20#	UL1007	标准长度:500mm Standard length:500mm
F 22#	B UL1569	
G 24#	C UL1430	
H 26#	D UL1061	
M 28#	E UL1330	
J 30#	F AVSS	
K 32#	G UL3266	
L 34#	H UL1332	
	K UL1015	

## ■G91端子类型/Terminal type for G91

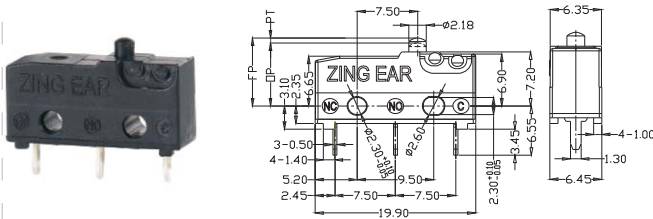
S型/Type 焊接端子/Solder Terminals	P型/Type 直PCB端子 (0.6mm宽)/Straight PCB Terminals(0.6mm wide)
D型/type 110#快速连接器 (2.8x0.5mm) 110# Quick Connect Terminals	R型/Type 右侧面PCB端子/Right Angled PCB Terminals
L型/Type 左侧面PCB端子/Left Angled PCB Terminals	K型/type 宽直PCB端子 (1.3mm宽) Straight PCB Terminals (1.3mm Wide)

## ■G91安装类型/Mounting Type for G91

安装柱型/Mouting Post Type	安装孔型/Mouting Hole Type

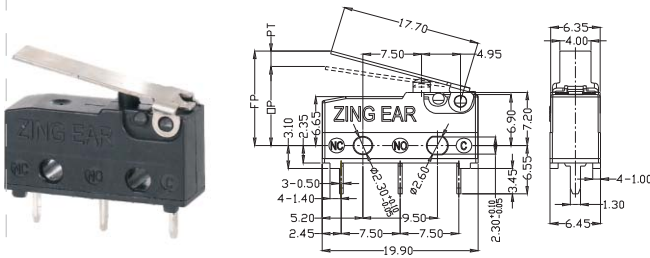
## ■外形尺寸和操作特性/Dimensions and Operating Characteristics

### ◆柱式按捺 Pin Plunger



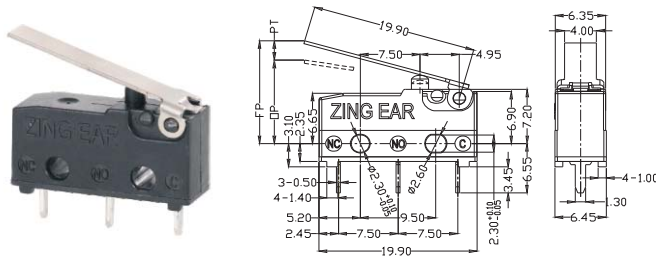
型号 Part No.	操作参数/Parameters							
	OF Max.	RF Min.	PT Max.	OT Min.	MD Max.	OP (mm)		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
G91□□-100□00D1	1.00	100	0.10	10	1.1	0.6	0.2	8.4±0.3
G91□□-150□00D1	1.50	150	0.35	35	1.1	0.6	0.2	8.4±0.3
G91□□-250□00D1	2.50	250	0.40	40	1.1	0.6	0.2	8.4±0.3
G91□□-300□00D1	3.00	300	0.60	60	1.1	0.6	0.2	8.4±0.3

### ◆短直手柄 Short Straight Lever



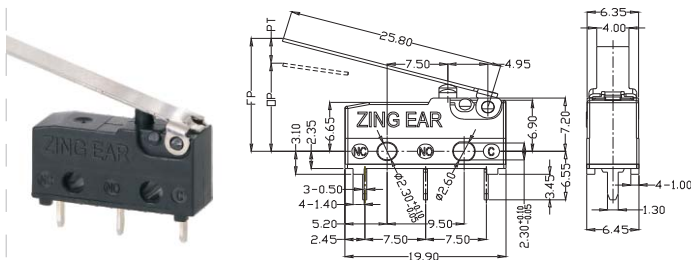
型号 Part No.	操作参数/Parameters							
	OF Max.	RF Min.	PT Max.	OT Min.	MD Max.	OP (mm)		
	(N)	(gf)	(N)	(gf)	(mm)	(mm)		
G91□□-100□01D1	0.45	45	0.03	3	4.3	1.2	0.8	10.7±1.3
G91□□-150□01D1	0.60	60	0.08	8	4.3	1.2	0.8	10.7±1.3
G91□□-250□01D1	0.85	85	0.10	10	4.3	1.2	0.8	10.7±1.3
G91□□-300□01D1	1.20	120	0.15	15	4.3	1.2	0.8	10.7±1.3

### ◆标准直手柄 Std. 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)		
G91□□-100□02D1	0.40	40	0.02	2	4.8	1.2	1.2	11.1±1.5
G91□□-150□02D1	0.50	50	0.06	6	4.8	1.2	1.2	11.1±1.5
G91□□-250□02D1	0.75	75	0.08	8	4.8	1.2	1.2	11.1±1.5
G91□□-300□02D1	1.10	110	0.12	12	4.8	1.2	1.2	11.1±1.5

### ◆长直手柄 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)		
G91□□-100□03D1	0.35	35	0.01	1	6.3	1.5	1.5	12.0±1.8
G91□□-150□03D1	0.40	40	0.04	4	6.3	1.5	1.5	12.0±1.8
G91□□-250□03D1	0.65	65	0.06	6	6.3	1.5	1.5	12.0±1.8
G91□□-300□03D1	0.90	90	0.10	10	6.3	1.5	1.5	12.0±1.8

