G9系列 / G9 Series

小型防水防尘微动开关

Sealed **Mini** Micro Switch

■特点/Features

◆防水防尘(IP67)设计
◆体积小巧,结构紧凑
◆长寿命，高可靠性
◆接线端子种类齐全
◆配备各种形式操作柄
◆广泛应用于各种汽车控制、家用及工业控制等领域

–Dust and Water Proof(IP67)Design
–Small Compact Size
–Long Life,High Reliability
–Vareity of Terminals and Levers
–Widely used in Auto Control,Appliance and Other Industry Control

■应用/Application

◆汽车/Car
◆电话/Phone
◆空调/Air–Conditioner
◆计算机/Computer
◆增湿器/Humidifier
◆报警器/Alarmer
◆计时器/Timer
◆混合器与切肉机/Mixer&Meat Grinder
◆焊接枪/Welding Machine
◆氖电话/Neon Phone
◆传真机/Fax Machine

游戏控制杆/Game Controller
水泵/Pump
汽油探测器/Gas Detector
卷笔刀/Pencil Sharpener
钱币分类机/Money Sorter
食品加工机/Food Processor
电切刀/Electric Knife
玩具汽车/Toy Car
榨汁机/Juice Extractor
照明设备/Lighting Equipment
电动煎锅/Electric Frying Pan

■特性参数/Parameters:

额定值/Rating	P1	0.1A 125/250VAC 48VDC 触点可选镀金/Gold Plated Contact Optional
	05	UL: 5A 125/250VAC ENEC:6A 125/250VAC 1E4 ;3A 125/250 VAC 30VDC 5E4 μ25T120
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 Ω Max(导线型视导线长短变化/It depends on the wire length for the type with wire)
绝缘电阻/Insulation Resistance(at 500VDC)		100MΩ Min
抗电强度/Dielectric Strength		AC 1,000V RMS (50~60Hz)
保存温度/Storage Temperature		–25℃ ~ +120℃
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	500,000次/cycles

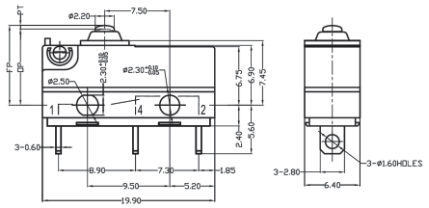
G9系列微动开关订货型号指引
G9 Series Micro Switch Ordering Instruction

G9	05	200	S	00	D	1	A			
Switch Type 开关类别	Electrical Rating 额定负载	MaxOperating Force at pin Plunger 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	AWG Type (for wire 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
G9 Series Micro-Switch G9系列 微动开关	P1 ENEC/CQC: 0.1A 125/250VAC 48VDC 5E4 u 25T120 UL/cUL: 0.1A 125/250VAC 48VDC 触点镀金可选 /Gold Plated Contact optional.	150 150gf Max. 仅适用于/Only for G9P1	S Solder Terminals 焊接端子	00 Spherical Pin Plunger 球面柱式按挚	D Dust proof -IP00 No wire. 防尘型-IP00 不带线	1 SPDT 单极双投	General 通用型 (温度等级 /Temperatnre grade 25T120)	20#	UL1007	标准长度:500mm Standard length:500mm
	05 ENEC/CQC: 6A 125/250VAC 1E4;u 3A 125/250VAC 30VDC 5E4 UL/cUL: 5A 125/250VAC	200 200gf Max.	P Straight PCB Terminals (0.6mm wide) 直PCB 端子 (0.6mm宽)	01 Short Straight Lever 17.7(0.70") 短直柄 17.7mm	W Water tight-IP67 With lead wires 防水型-IP67 带引出线	2 SPST - NC 单极单投-常闭	A Gold Plated Contacts (Optioal Only for G9P1) 触点镀金(可选,仅适用于G9P1 系列)	F 22#	B UL1569	
		300 300gf Max.	E Wires leads to bottom(500mm) 底面出线 (500mm长)	02 Std. Straight Lever 19.7(0.78") 标准直柄 19.7mm		3 SPST - NO 单极单投-常开	D Special use for high DC ratig 特别用于大电流直流负载.	G 24#	C UL1430	
			F Wires leads to side(500mm) (opposite to plunger) 侧面出线-按挚相对侧 (500mm 长)	03 Long Straight Lever 25.8(1.02") 长直柄 25.8mm			... Other 其他	H 26#	D UL1061	
			G Wires leads to side(500mm) (plunger side) 侧面出线-按挚相对侧 (500mm 长)	05 Small Simulated Roller Lever18.9mm (0.75") 小型摸似滚轮手柄 18.9mm				M 28#	E UL1330	
			... Special Terminals 特殊端子	06 Roller Lever 15.7mm (0.62") 带滚轮手柄 15.7mm				J 30#	F AVSS	
				07 Small Simulated Roller Lever19.0 mm 小型摸似滚轮手柄 19.0mm				K 32#	G UL3266	
				12 Longest Straight Lever56.2mm (2.23") 超长直柄 56.2mm				L 34#	H UL1332	
				... Other 其他					K UL1015	

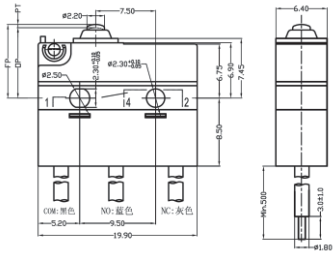
G9系列 G9 Series | 端子类、操作柄类型、安装孔位、接触形式、外形介绍 Terminal Type, Lever Type, Mounting Hole, Circuit, Shape

■端子类型/Terminal Type

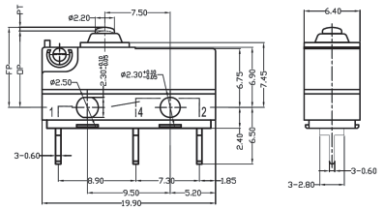
S#: Solder Terminals
焊接端子



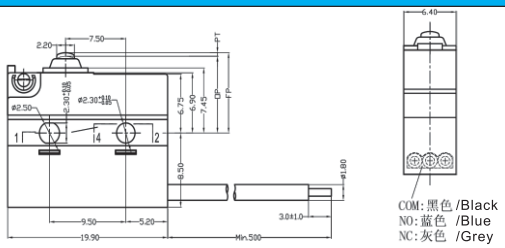
E#: Wires Leads to Bottom (500mm length)
导线型，底面出线，线长500mm



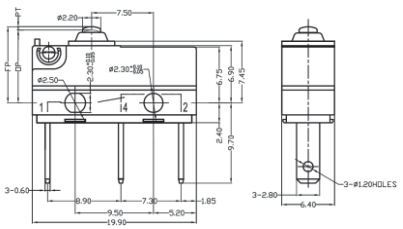
P#: Straight PCB Terminals
直PCB端子



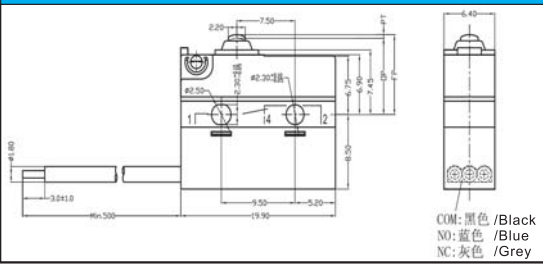
F#: Wires Leads to Side(Opposite to Pin plunger side), 500mm length. 导线型，右面(按挚相对侧)出线,线长500mm.



D#: 110# Quick Connect Terminals：2.8mmX0.6mm
110#快速连接端子2.8mmX0.6mm

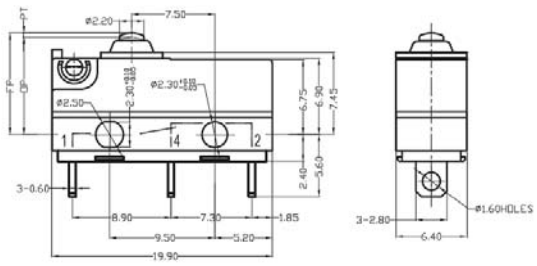


G#: Wires Leads to Side(Pin plunger side), length:500mm .
导线型，左面(按挚侧)出线,线长500mm

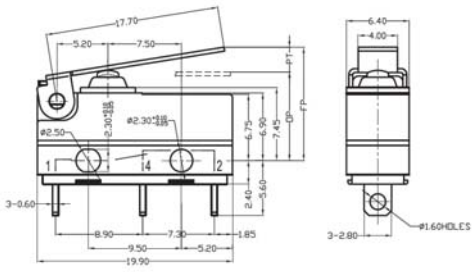


■操作柄类型/Lever Type

00# : Pin Plunger
柱式按挚

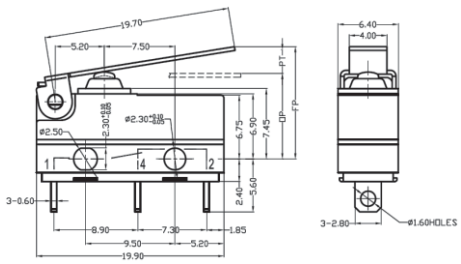


01#: Short Straight Lever 17.7mm
短直柄 17.7mm

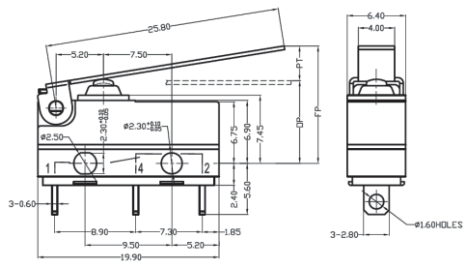


■操作柄类型/Lever Type

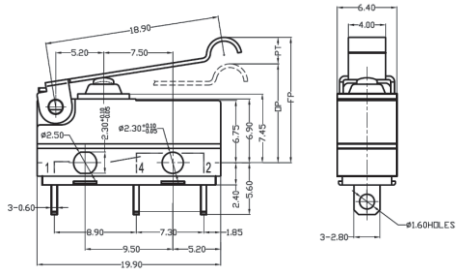
02#: Standard Straight Lever 19.7mm
标准直手柄19.7mm



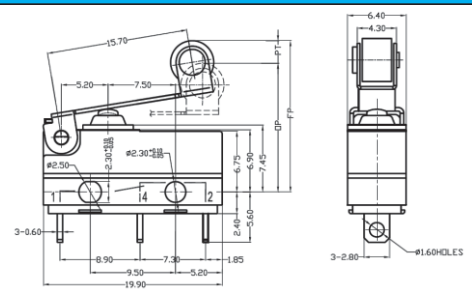
03# : Long Straight Lever,25.8mm
长直柄25.8mm



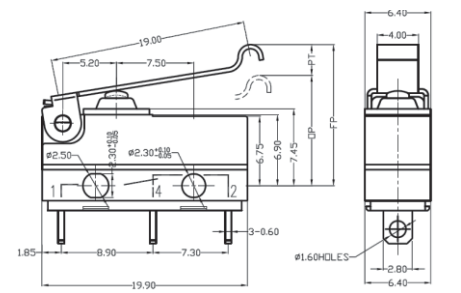
05# : Simulated Roller Lever 18.9mm
小型摸拟滚轮手柄18.9mm

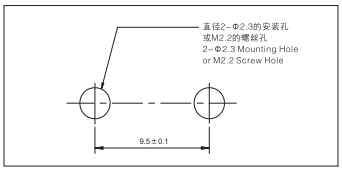


06# : Roller Lever 15.7mm
滚轮手柄 15.7mm

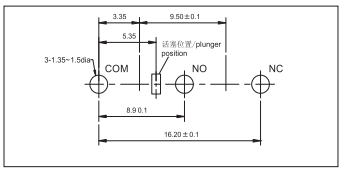


07# : Small Simulated Roller Lever 19.0mm
小型摸拟滚轮手柄19.0mm





■安装孔尺寸
Mounting Hole Dimensions
(单位/Unit:mm)



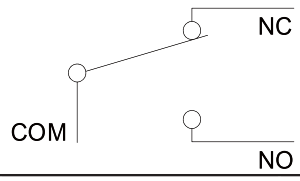
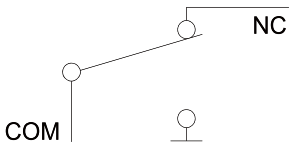
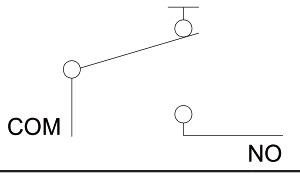
■PCB端子安装孔
Mounting Hole of PCB Terminals
(单位/Unit:mm)

■ IP 等级 /IP grade

D#: Without Lead Wires Type, Plunger and Body are Water Proof(IP67); Terminals are not Water Proof(IP00)
按挚及开关本体防尘防水(IP67)，端子无防尘防水设计(IP00)

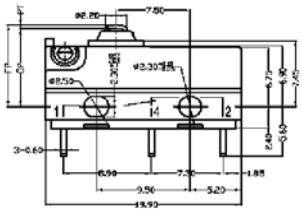
W#: With Lead Wires Type, Water Proof (IP67)
防水型IP67带引线.

■接触形式图/Circuit Configuration

1# SPDT	2# SPST–NC	3# SPST–NO
		

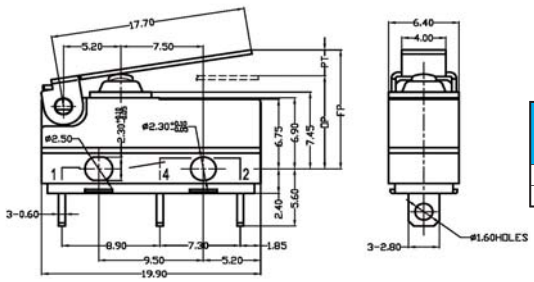
■外形尺寸和操作特性/Dimensions and Operating Characteristics

◆G9□□-□□□S00D1



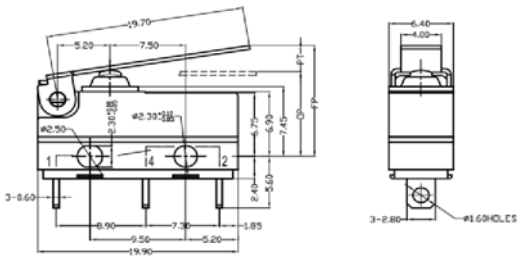
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
150	150	30	1.2	0.6	0.2	9.4	8.4±0.3
-200	200	50	1.2	0.6	0.2	9.4	8.4±0.3

◆G9□□-□□□S01D1



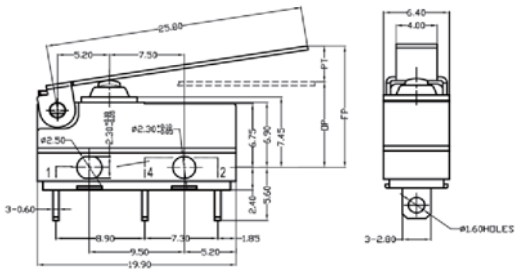
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	50	8.0	4.3	0.6	0.7	12.0	8.8±1.2
-200	90	15	4.3	0.6	0.7	12.0	8.8±1.2

◆G9□□-□□□S02D1



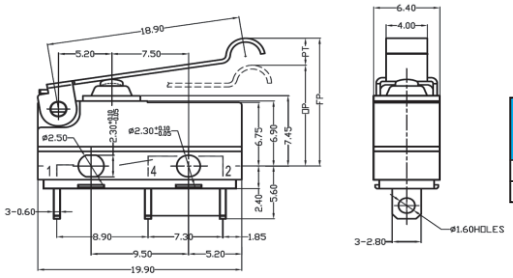
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	50	6	4.8	0.7	0.8	12.5	8.8±1.3
-200	75	13	4.8	0.7	0.8	12.5	8.8±1.3

◆G9□□-□□□S03D1



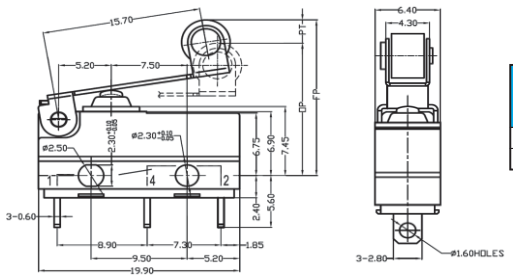
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	40	5	6.3	1.0	1.0	13.5	8.8±1.8
-200	55	8	6.3	1.0	1.0	13.5	8.8±1.8

◆G9□□-□□□S05D1



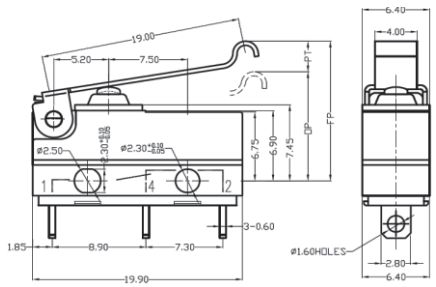
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	50	6	4.6	0.7	0.8	15.5	11.8±1.5
-200	75	12	4.6	0.7	0.8	15.5	11.8±1.5

◆G9□□-□□□S06D1



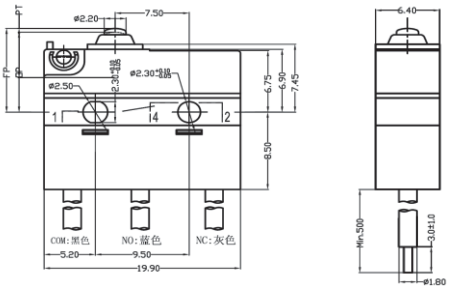
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	65	10	4.3	0.6	0.7	17.5	14.5±1.1
-200	85	15	4.3	0.6	0.7	17.5	14.5±1.1

◆G9□□-□□□S07D1



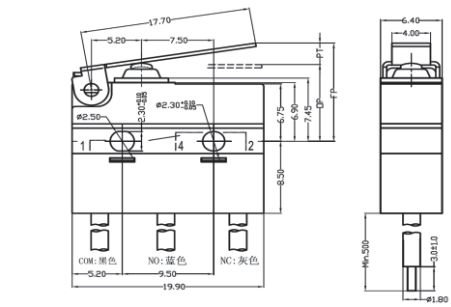
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	50	9	4.6	0.7	0.8	14.0	10.7±1.5
-200	75	12	4.6	0.7	0.8	14.0	10.7±1.5

◆G9□□-□□□E00W1



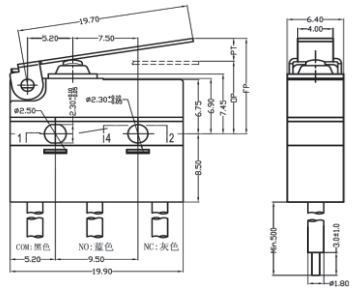
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	150	30	1.2	0.6	0.2	9.4	8.4±0.3
-300	300	70	1.2	0.6	0.2	9.4	8.4±0.3

◆G9□□-□□□E01W1



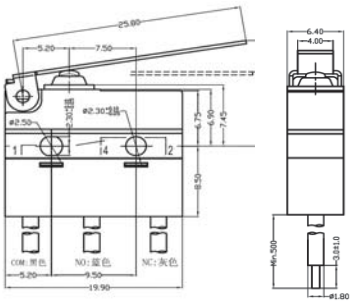
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	50	8	4.3	0.6	0.7	12.0	8.8±1.2
-300	105	20	4.3	0.6	0.7	12.0	8.8±1.2

◆G9□□-□□□E02W1



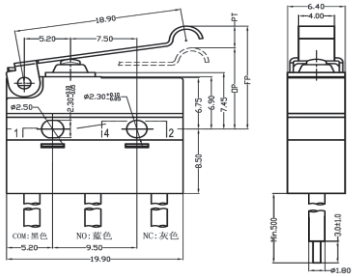
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	50	6	4.8	0.7	0.8	12.5	8.8±1.3
-300	95	18	4.8	0.7	0.8	12.5	8.8±1.3

◆G9□□-□□□E03W1



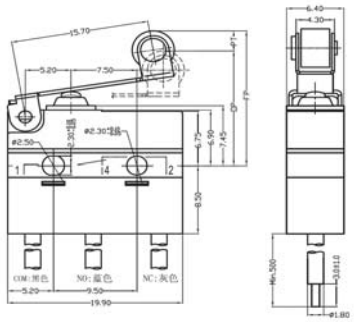
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	40	5	6.3	1.0	1.0	13.5	8.8±1.8
-300	75	13	6.3	1.0	1.0	13.5	8.8±1.8

◆G9□□-□□□E05W1



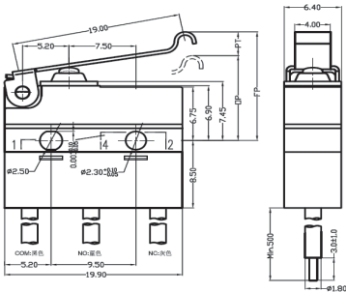
OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	50	6	4.6	0.7	0.8	15.5	11.8±1.5
-300	95	18	4.6	0.7	0.8	15.5	11.8±1.5

◆G9□□-□□□E06W1



OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	65	10	4.3	0.6	0.7	17.5	14.5±1.1
-300	110	25	4.3	0.6	0.7	17.5	14.5±1.1

◆G9□□-□□□E07W1



OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
-150	50	6	4.6	0.7	0.8	14.0	10.7±1.5
-300	95	18	4.6	0.7	0.8	14.0	10.7±1.5