

G6 Series

Miniature Micro Switch

■Features

-Small Compact Size
-Global Safety Approvals
-Long Life and High Reliability
-Variety of Actuator and Terminals
-High Rating to 10(2)A,1/4HP
-Customized Designs
-Widely used in Auto Control,Appliance Control
Industrial Control etc.

■Application

◆Phone
◆Air-Conditioner
◆Computer
◆Humidifier
◆Alarm
◆Timer
◆Mixer&Meat Grinder
◆Welding Machine
◆Neon Phone
◆Fax Machine
◆Game Controller
◆Pump
◆Gas Detector
◆Pencil Sharpener
◆Money Sorter
◆Food Processor
◆Electric Knife
◆Toy Car
◆Juice Extractor
◆Lighting Equipment
◆Electric Frying pan
◆Push rod&Tubular Motor

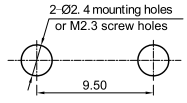
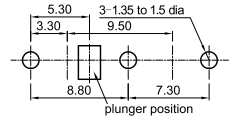
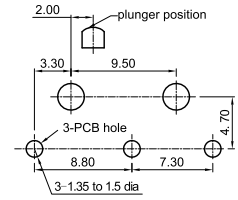
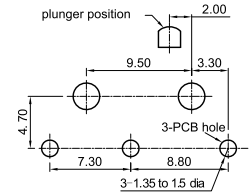
■Parameters

Rating	P1/P11/P12	ENEC:0.1A 125/250V 48VDC 5E4 UL:0.1A 125/250VAC 48VDC Gold Plated Contact Optional
	05/051/052	ENEC:5A 125/250VAC 5(3)A 125/250VAC 5A 30VDC UL:5A 1/8 HP 125/250VAC
	10/101	ENEC:10（2）A 125/250VAC 25T125 UL:10.1A 1/4HP 125/250VAC Note:Only with "OF" over "250gf"
	12	ENEC:12(6)A 125/250VAC μ40T125 UL:12A 125/250VAC Note:Only with 350gf OF
Operating Frequency	Electrical	10~30 cycles/minute
	Mechanical	120 cycles/minute
Contact Resistance(Initiative)		100mΩ Max
Insulation Resistance(at 500VDC)		100mΩ Min
Dielectric Strength		AC 1,000V RMS(50~60Hz)
Operating Temperature		-25°C~+125°C
Operating Humidity		85%RH Max
Service Life	Electrical	10,000~50,000 cycles (up to specific part no.)
	Mechanical	1,000,000 cycles

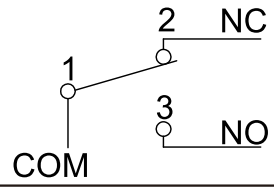
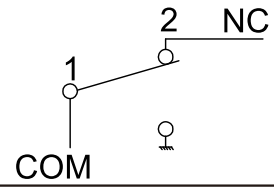
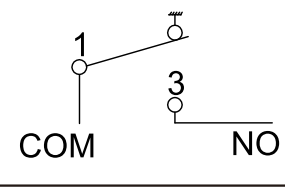
G6 Series Micro Switch Ordering Instruction

G6	05	150	S	00	A	A	TXXX
Switch Type	Electrical Rating	Max Operating Force at pin Plunger	Terminal Style	Lever Type	Circuit Code	Special Designator	Special Designator
G6 series micro switch	P1 ENEC/CQC: 0.1A 125/250VAC 48VDC 25T125 μ 5E4 UL 0.1A 125/250VAC 48VDC Gold plated contact optional	50 50gf 0.49N Only for 0.1A rating	S Solder Terminals	00 No lever Pin Plunger	A SPDT	General	Here means a specical designator letter. Refer to Products Specification for detailed differences.
	05 ENEC/CQC: 5A 125/250VAC 30VDC 25T125 μ 5E4 UL: 5A 1/8HP 125/250VAC 30VDC	100 100gf 0.98N Only for 0.1A and 5A rating	P Straight PCB Terminals	01 (16.7mm) Short Straight Lever 0.66"	B SPST-NC	A Gold Plated Contacts Optional, only for G6P1	
	10 ENEC/CQC: 10(2)A 125/250VAC μ 25T125 UL: 10.1A 1/4HP 125/250VAC Note:Switch "10" rating is only available with OF over "250gf"	150 150gf 1.49N Note:For G6P11,G6051,G6101,Max.OF is 150gf	R Right side PCB Terminals Note: Only available for G6P1,G605,G610	02 (18.7mm) Std. Straight Lever 0.74"	C SPST-NO	D High DC Rating Special use	
	12 ENEC/CQC: 12(6)A 125/250VAC, μ 40T125 UL:12A 125/250VAC OF only with 350gf	250 250gf 2.45N Note:Only available for G6P1, G605,G610	L left side PCB Terminals Note: Only available for G6P1,G605,G610	03 (24.8mm) Long Straight Lever 0.98"		... Other	
	P11 ENEC/CQC: 0.1A 125/250VAC 48VDC 5E4 μ 25T125 UL: 0.1A 125/250VAC 48VDC Gold plated contact optional Spring plate type	350 350gf 3.43N mainly for G612	D 110# Non-Std quick connect Terminals 0.11"x0.023"	04 (35.10mm) Longer Straight Lever 1.39"			
	051 ENEC/CQC: 5A 125/250VAC 5E4 μ 25T125 UL/CUI: 5A 1/8HP 125/250VAC Spring plate type	F Special OF	E 110# Std quick connect Terminals 0.11"x0.019"	05 (18.0mm) Std. Simulated Roller Lever 0.71"			
	101 ENEC/CQC: 10(2)A 125/250VAC μ 25T125 UL: 10.1A 1/4HP 125/250VAC Note:Switch with"10"rating are only available with "150"OF Spring plate type		... Special Terminals	06 (16.6mm) Roller Lever 0.65"			
	P12 ENEC/CQC: 0.1A 125/250VAC 48VDC 5E4 μ 25T85 UL: 0.1A 125/250VAC 48VDC Gold plated contact optional Bakelite Spring plate type			07 (17.9mm) Small Simulated Roller Lever1 0.71"			
	052 ENEC/CQC 5A 125/250VAC 5E4 μ 25T85 UL: 5A 1/8HP 125/250VAC Bakelite housing Spring plate type			09 Plastic Roller Lever			
				... Other			

■ Mounting Hole Dimensions

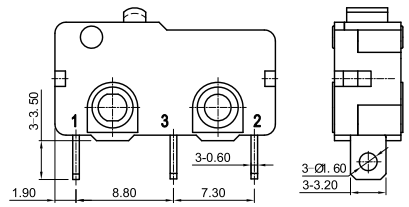
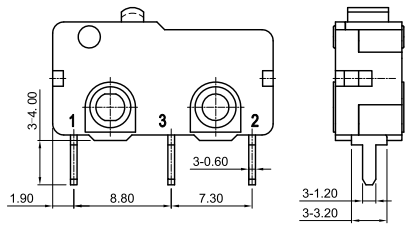
Solder and 110#Terminal	Straight PCB Terminal	Right Angled PCB Terminal	Left Angled PCB Terminal
			

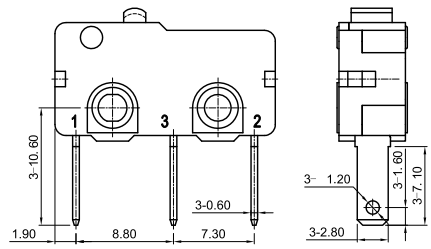
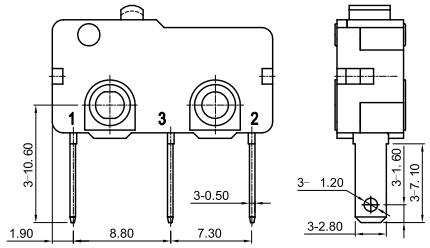
■Circuit Configuration

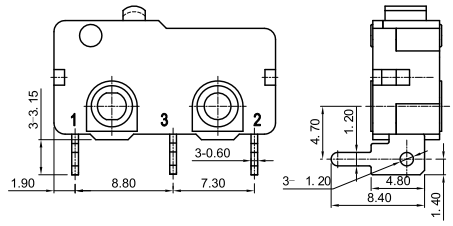
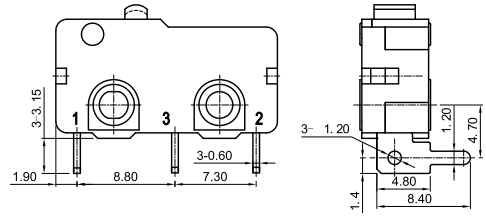
A# SPDT	B# SPST-NC	C# SPDT-NO
		

■Terminal Dimensions

Unit:mm

Solder Terminals	Straight PCB Terminals
	

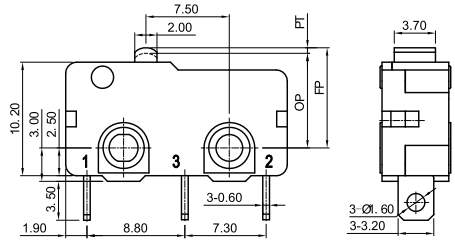
Non-Std: Quick Connect Terminals (Thickness:0.6mm)	Std: Quick Connect Terminals (Thickness:0.5mm)
	

Left Angled PCB Terminals	Right Angled PCB Terminals
	

■ Dimensions and Operating Characteristics

◆G6□□-□□□S00A

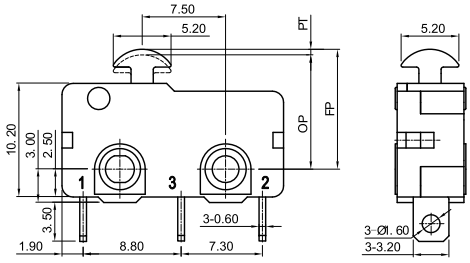




OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	100	10	1.0	0.4	0.2	9.1	8.5±0.3
-150	150	35	1.0	0.4	0.2	9.1	8.5±0.3
-250	250	50	1.0	0.4	0.2	9.1	8.5±0.3
-350	350	80	1.0	0.4	0.2	9.1	8.5±0.3

◆G6□□-□□□S00A-B3

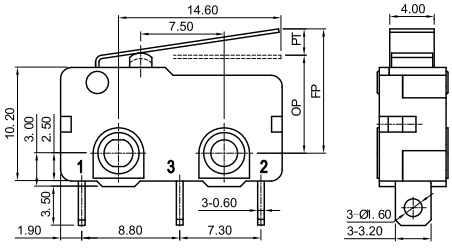




OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	100	10	1.0	0.4	0.2	10.9	10.3±0.3
-150	150	35	1.0	0.4	0.2	10.9	10.3±0.3
-250	250	50	1.0	0.4	0.2	10.9	10.3±0.3

◆G6□□-□□□S01A

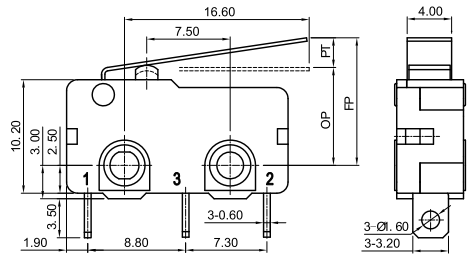




OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	40	6	3.6	0.6	1.0	11.7	8.9±1.0
-150	50	8	3.6	0.6	1.0	11.7	8.9±1.0
-250	80	15	3.6	0.6	1.0	11.7	8.9±1.0
-350	110	30	3.6	0.6	1.0	11.7	8.9±1.0

◆G6□□-□□□S02A



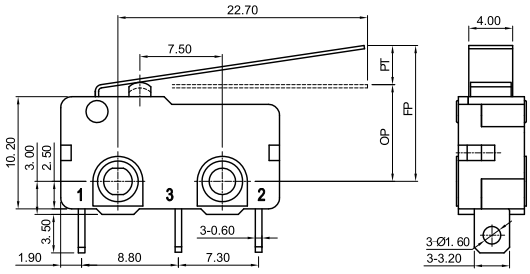


OF Max (gf)	RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	35	5	4.0	0.6	1.0	12.0	8.9±1.2
-150	45	6	4.0	0.6	1.0	12.0	8.9±1.2
-250	75	10	4.0	0.6	1.0	12.0	8.9±1.2
-350	100	20	4.0	0.6	1.0	12.0	8.9±1.2

■ Dimensions and Operating Characteristics

◆G6□□-□□□S03A

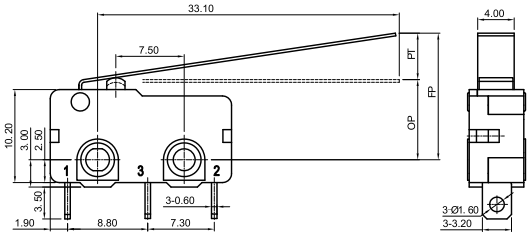




OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	25	2	6.1	0.8	1.8	13.5	8.9±1.8
-150	35	6	6.1	0.8	1.8	13.5	8.9±1.8
-250	55	10	6.1	0.8	1.8	13.5	8.9±1.8

◆G6□□-□□□S04A

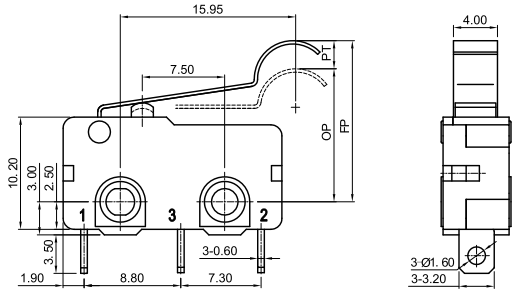




OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	15	2	7.5	1.5	2.0	15.5	8.9±2.0
-150	30	4	7.5	1.5	2.0	15.5	8.9±2.0
-250	45	7	7.5	1.5	2.0	15.5	8.9±2.0

◆G6□□-□□□S05A

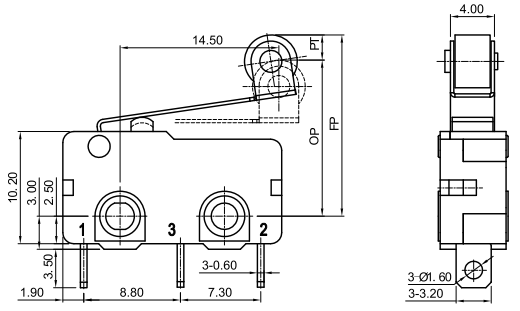




OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	35	5	5.0	0.6	1.0	18.5	12.2±1.5
-150	45	6	5.0	0.6	1.0	18.5	12.2±1.5
-250	75	10	5.0	0.6	1.0	18.5	12.2±1.5
-350	100	20	5.0	0.6	1.0	18.5	12.2±1.5

◆G6□□-□□□S06A

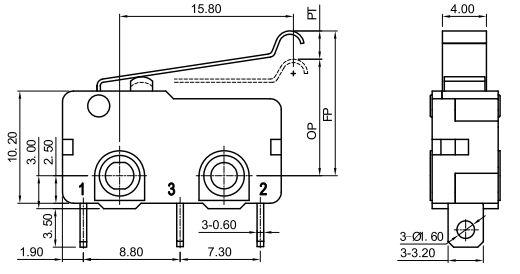




OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	40	6	3.8	0.8	1.0	17.6	14.6±1.0
-150	50	8	3.8	0.8	1.0	17.6	14.6±1.0
-250	80	15	3.8	0.8	1.0	17.6	14.6±1.0
-350	110	30	3.8	0.8	1.0	17.6	14.6±1.0

◆G6□□-□□□S07A





OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	40	6	4.5	0.8	1.0	14.4	10.8±1.2
-150	50	8	4.5	0.8	1.0	14.4	10.8±1.2
-250	80	15	4.5	0.8	1.0	14.4	10.8±1.2
-350	110	20	4.5	0.8	1.0	14.4	10.8±1.2