G6 Series

Miniature Micro Switch

Features

- Small compact size
- Global safety approvals
- Long life and high reliability
- Terminal load to 10(2)A,1/4HP
- Variety of actuator and terminals
- 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
- Linear Actuator & Tubular Motor

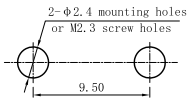
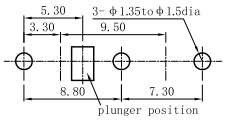
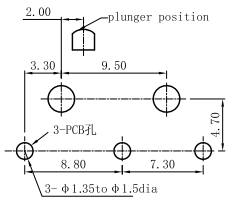
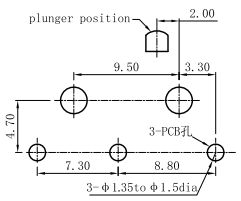
Parameters

Rating	P1	ENEC/CQC: 0.1A 125/250VAC 0.1A 48VDC 5E4 25T125 UL: 0.1A 125/250VAC 0.1A 48VDC Gold Plated Contact Optional
	05	ENEC/CQC: 5(3)A 125/250VAC 5A 125/250VAC 5A 30VDC 25T120 μ 5E4 UL: 5A 125/250VAC 1/8HP 125/250VAC 5A 30VDC
	051/052	ENEC/CQC: 5A 125/250VAC 25T120 μ 5E4 UL: 5A 125/250VAC 1/8HP 125/250VAC
	10/101	ENEC/CQC: 10(2)A 125/250VAC 25T120 μ 5E4 UL: 10.1A 125/250VAC 1/4HP 125/250VAC 10A 30VDC Note: Only with “OF” over “250gf”
	12	ENEC/CQC: 12(6)A 125/250VAC 40T125 μ 1E4 UL: 12A 125/250VAC Note: Only with 350gf OF
Operating Frequency	Electrical	10~30 cycles/min
	Mechanical	120 cycles/min
Contact Resistance (Initiative)		100mΩ Max.
Insulation Resistance (at 500VDC)		100MΩ Min.
Dielectric Strength	Between Terminals	1,000VAC 50~60Hz for 1 Min.
	Between Terminals and Housing	1,500VAC 50~60Hz for 1 Min.
Operating Temperature		-25℃~+125℃
Operating Humidity		85%RH Max.
Service Life	Electrical	10,000~50,000 cycles (Depend on P/N)
	Mechanical	1,000,000 cycles

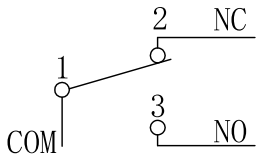
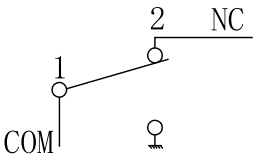
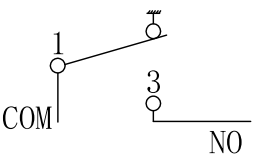
G6 Series Micro Switch Ordering Instruction

G6	05	150	S	00	A	A	T001	U
Switch Type	Electrical Rating	Max Operating Force at Pin Plunger	Terminal Style	Lever Type	Circuitry	Special Designator	Custom Code	LOGO
G6 series micro switch	P1 ENEC/CQC: 0.1A 125/250VAC 0.1A 48VDC 5E4 25T125 UL: 0.1A 125/250VAC 0.1A 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	General	U Unionwell
	05 ENEC/CQC: 5(3)A 125/250VAC 5A 125/250VAC 5A 30VDC 5E4 25T125 UL: 5A 125/250VAC 1/8HP 125/250VAC 5A 30VDC	100 100gf 0.98N (Only for 0.1A and 5A rating)	P Straight PCB Terminals	01 Short Straight Lever 0.66"	B SPST-NC	A Gold Plated Contacts (Optional, only for G6P1)	T001 Customized according to requirements, the code format is T+ serial number XXX, for example: T001	... Other
	10 ENEC/CQC: 10(2)A 125/250VAC 1E4 25T125 UL: 10.1A 125/250VAC 1/4HP 125/250VAC 10A 30VDC Note: Switch "10" rating is only available with OF over "250gf"	150 150gf 1.49N (Only available for G6P1, G605, G610)	R Right Side PCB Terminals	02 18.70mm Std. Straight Lever 0.74"	C SPST-NO	D High DC Rating Special use	... Other	
	12 ENEC/CQC: 12(6)A 125/250VAC, 1E4 40T125 UL: 12A 125/250VAC OF only with 250gf	250 250gf 2.45N (Only available for G6P1, G605, G610)	L Left Side PCB Terminals	03 24.80mm Long Straight Lever 0.98"		... Other		
	051 ENEC/CQC: 5A 125/250VAC 5E4 25T125 UL/cUL: 5A 125/250VAC 1/8HP 125/250VAC Spring plate type	350 350gf 3.43N Mainly for G612	D 110# 2.80 x0.6mm Quick Connect Terminals 0.11"x0.023"	04 35.10mm Longer Straight Lever 1.39"				
	101 ENEC/CQC: 10(2)A 125/250VAC 1E4 25T125 UL: 10.1A 125/250VAC 1/4HP 125/250VAC 10A 30VDC Note: Switch with "10" rating are only available with "150" OF spring plate type	F Special OF	E 110# 2.80 x0.5mm Quick Connect Terminals 0.11"x0.023"	05 18.00mm Std. Simulated Roller Lever 0.71"				
	052 ENEC/CQC: 5A 125/250VAC 5E4 25T85 UL: 5A 125/250VAC 1/8HP 125/250VAC Bakelite housing spring plate type		... Special Terminals	06 16.60mm Copper Roller Lever				
				07 17.90mm Small Simulated Roller Lever 0.71"				
				08 16.50mm Plastic Roller Lever				
				... Other				

■ Mounting Hole Dimensions

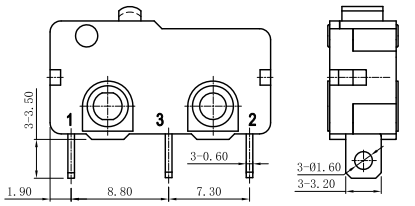
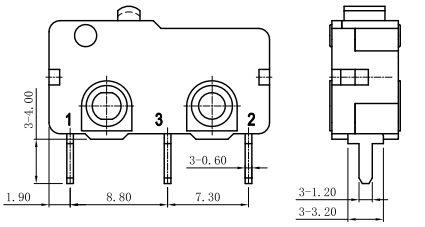
Solder and 110#Terminal	Straight PCB Terminal	Right Angled PCB Terminal	Left Angled PCB Terminal
			

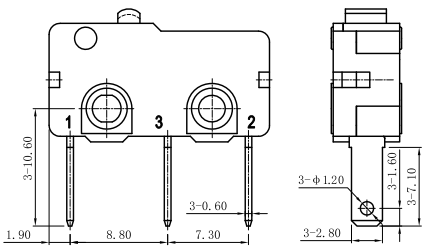
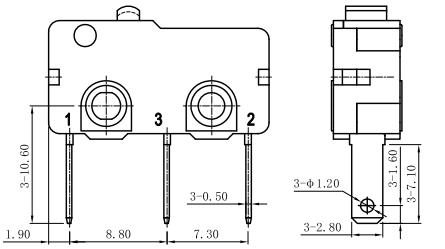
■ Circuit Configuration

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

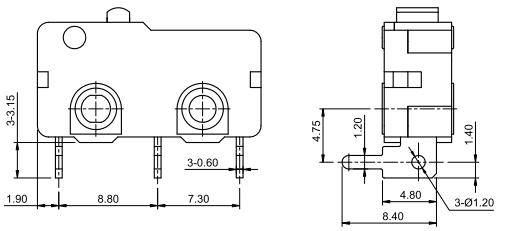
■ Terminal Dimensions

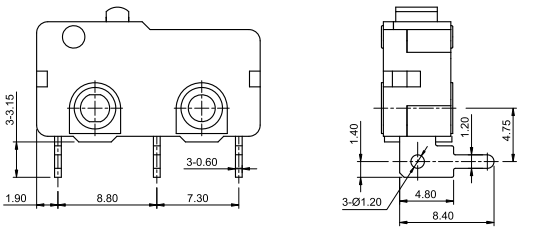
(Unit:mm)

Solder Terminals	Straight PCB Terminals
	

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

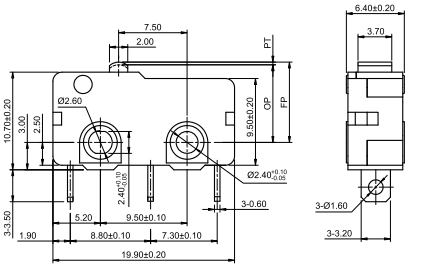
Left Angled PCB Terminals	Right Angled PCB Terminals





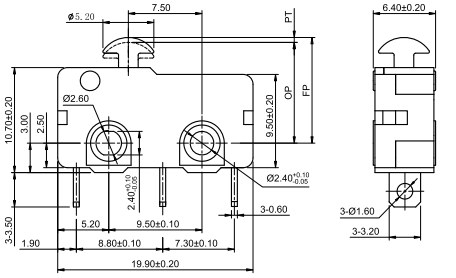
■ Dimensions and Operating Characteristics

◆ G6□□-□□□S00AU



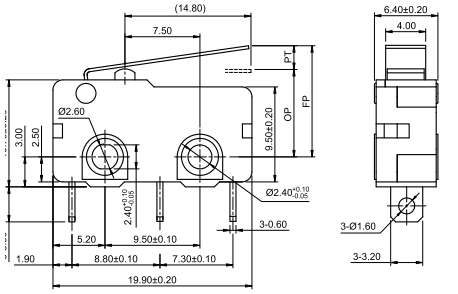
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	100	10	1.0	0.4	0.2	9.1	8.5±0.3
-150	150	35	1.0	0.4	0.2	9.1	8.5±0.3
-250	250	50	1.0	0.4	0.2	9.1	8.5±0.3
-350	350	80	1.0	0.4	0.2	9.1	8.5±0.3

◆ G6□□-□□□S00A-B3U



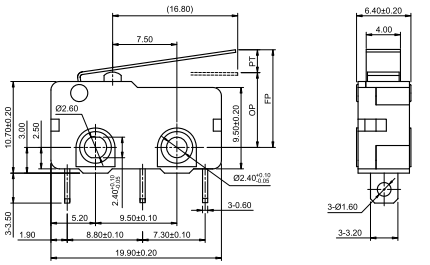
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	100	10	1.0	0.40	0.20	10.90	10.20±0.30
-150	150	35	1.0	0.40	0.20	10.90	10.20±0.30
-250	250	50	1.0	0.40	0.20	10.90	10.20±0.30

◆ G6□□-□□□S01AU



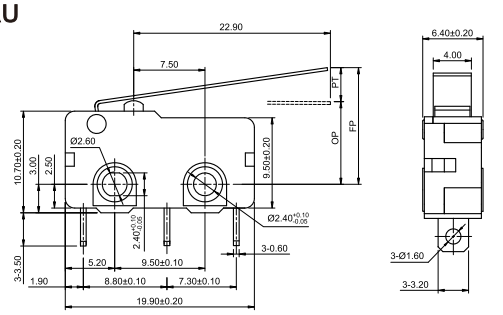
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	40	6	3.6	0.6	1.0	11.7	8.9±1.0
-150	50	8	3.6	0.6	1.0	11.7	8.9±1.0
-250	80	15	3.6	0.6	1.0	11.7	8.9±1.0
-350	110	30	3.6	0.6	1.0	11.7	8.9±1.0

◆ G6□□-□□□S02AU



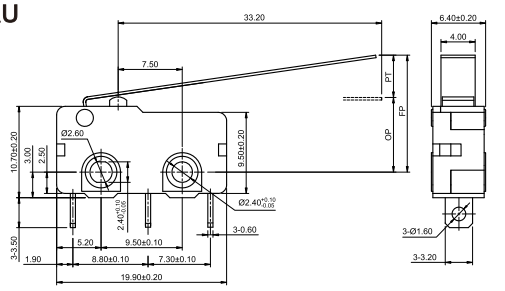
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	35	5	4.0	0.6	1.0	12.0	8.9±1.2
-150	45	6	4.0	0.6	1.0	12.0	8.9±1.2
-250	75	10	4.0	0.6	1.0	12.0	8.9±1.2
-350	100	20	4.0	0.6	1.0	12.0	8.9±1.2

◆ G6□□-□□□S03AU



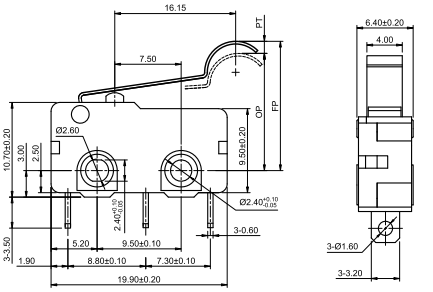
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	25	2	6.1	0.8	1.8	13.5	8.9±1.8
-150	35	6	6.1	0.8	1.8	13.5	8.9±1.8
-250	55	10	6.1	0.8	1.8	13.5	8.9±1.8
-350	75	15	6.1	0.8	1.8	13.5	8.9±1.8

◆ G6□□-□□□S04AU



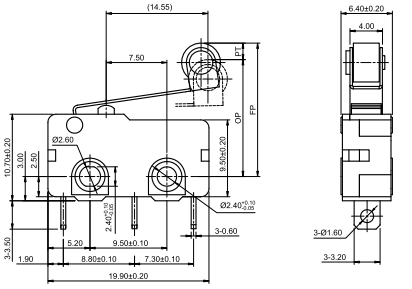
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	15	2	7.5	1.5	2.0	15.5	8.9±2.0
-150	30	4	7.5	1.5	2.0	15.5	8.9±2.0
-250	45	7	7.5	1.5	2.0	15.5	8.9±2.0
-350	55	12	7.5	1.5	2.0	15.5	8.9±2.0

◆ G6□□-□□□S05AU



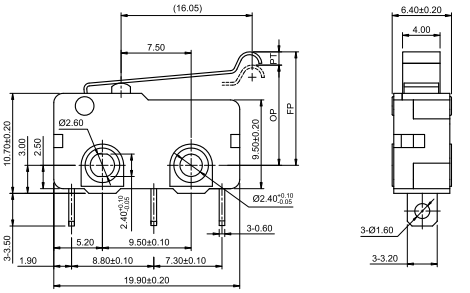
OF Max (gf)		RF Min (gf)	PT Max (mm)	OT Min (mm)	DT Max (mm)	FP Max (mm)	OP (mm)
-100	35	5	5.0	0.6	1.0	18.5	11.90±1.50
-150	45	6	5.0	0.6	1.0	18.5	11.90±1.50
-250	75	10	5.0	0.6	1.0	18.5	11.90±1.50
-350	100	20	5.0	0.6	1.0	18.5	11.90±1.50

◆ G6□□-□□□S06AU



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	14.20±1.00
-150	50	8	3.8	0.8	1.0	17.6	14.20±1.00
-250	80	15	3.8	0.8	1.0	17.6	14.20±1.00
-350	110	30	3.8	0.8	1.0	17.6	14.20±1.00

◆ G6□□-□□□S07AU



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	10.40±1.20
-150	50	8	4.5	0.8	1.0	14.4	10.40±1.20
-250	80	15	4.5	0.8	1.0	14.4	10.40±1.20
-350	110	20	4.5	0.8	1.0	14.4	10.40±1.20