G9A/G9B

Waterproof and Dustproof Miniature Micro Switch



■ Features

- ◆ G9A dust and water proof (IP67) / G9B dust proof (IP40)
- ◆ Small compact size
- ◆ Long life and high reliability
- ◆ Variety of terminals
- ◆ Variety of levers optional
- ◆ Long over-travel of 2.20mm minimum
- ◆ Widely used in auto control,home appliances and other industry control

■ Application

- ◆ Auto electronics
- ◆ Home appliances
- ◆ Apparatus and instruments

■ Parameters:

Rating	P1	0.1A 125/250VAC, 0.1A 30VDC
	05	5(2)A 125/250VAC, 5A 30VDC
Operating Frequency	Electrical	10~30 cycles/min
	Mechanical	120 cycles/min
Contact Resistance (Initiative)	With terminals type	≤100mΩ
	With wire type	≤200mΩ (500mm wires length)
Insulation Resistance (at 500VDC)		≥100MΩ
Volatge Resistance	Between terminals	AC 500V, 50/60Hz, 1min
	Between terminals and uncharged metal parts	AC 1,000V, 50/60Hz, 1min
Service Life	Electrical	50,000 cycles
	Mechanical	200,000 cycles (IP67) 200,000 cycles (IP40)
Operating Temperature		-40~+85℃
Operating Humidity		95% RH Max.

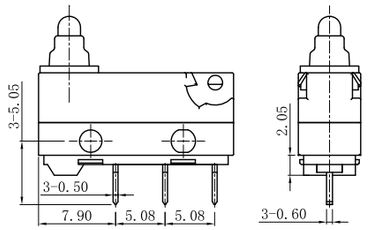
G9A/G9B Series Micro Switch Ordering Instruction

G9A	Switch Type	G9A IP67 G9B IP40 Series - Micro Switch							
05	Electrical Rating	P1 ENEC/CQC: 0.1A 125/250VAC 30VDC 40T85 μ 5E4 UL/cUL: 0.1A 125/250VAC 30VDC	05 ENEC/CQC: 5(2)A 125/250VAC 30VDC 40T85 μ 5E4 UL/cUL: 5A 125/250VAC 30VDC	... Other					
200	Max Operating Force at Pin Plunger	200 200gf Max	... Other						
S	Terminal Type	S Solder terminals	P Straight PCB terminals	E Molded lead wires downwards	F Molded lead Wires lead to right Side (Opposite to pin plunger side)	G Molded lead wires lead to left side (Pin plunger side)	... Special Terminals		
01	Lever Type	00 No Lever Pin Plunger	01 01 Lever	... Other					
A	Circuitry	A SPDT	B SPST-NC	C SPST-NO					
F	Waterproof Code	Low pressure injection molding (only apply to wired switches)	F Sealed housing with glue injection (only apply to wired switches)	... Other					
300	Wires Length (AWG Number UL1007 AWG Type 20#)	500mm length standard lead wires	300 300mm length	... Other					
T001	Custom Code	General	T001 Customized according to requirements the code format is T+serial number XXX,for example:T001	... Other					
U	LOGO	U Unionwell	... Other						

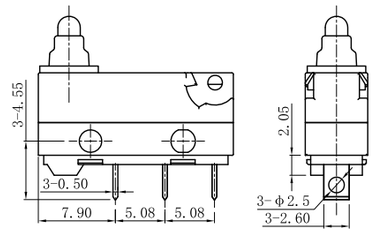
■Terminal Type

◆ Terminal Thickness:0.5mm

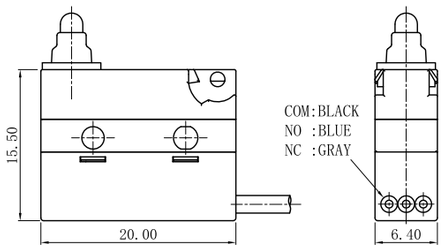
P# PCB Terminals



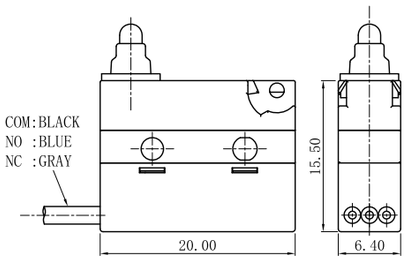
S# Solder Terminals



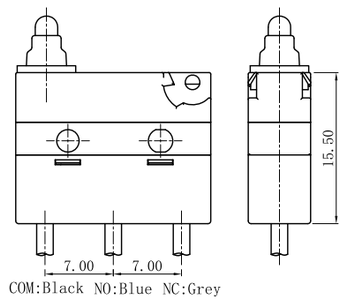
F# Wires Lead to Right



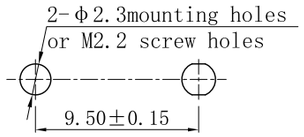
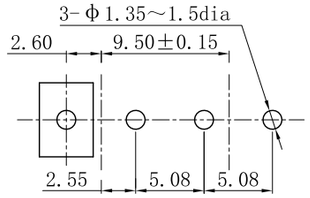
G# Wires Lead to Left



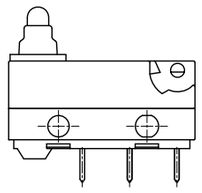
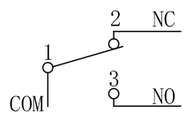
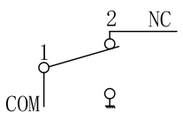
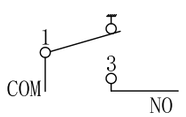
E# Wires Lead to Bottom



Mounting Hole and Operating Characteristics

Mounting Hole Dimension	Mounting Hole Dimension of PCB Terminals
	

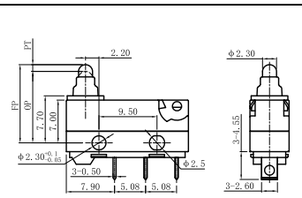
Circuitry

	SPDT	SPST-NC	SPST-NO
			

Dimensions and Operating Characteristics

◆ G9A□□-□□□S00AU

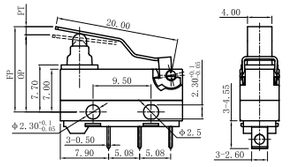




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
−200	200	20	1.7	2.2	0.9	13.0	11.7 ±0.4

◆ G9A□□-□□□S01AU

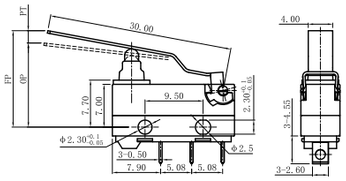




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
−200	200	20	2. 9	2.2	1. 0	14. 5	12. 6±0.8

◆ G9A□□-□□□S02AU



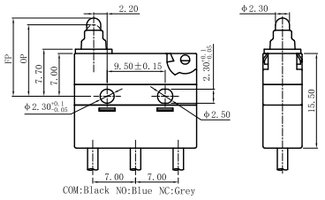


OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
−200	150	20	4. 0	2.9	1. 3	16. 5	13. 5±1. 0

Dimensions and Operating Characteristics

◆ G9A□□-□□□E00AU

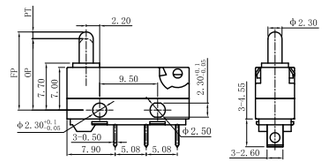




OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
−200	200	20	1.7	2.2	0.9	13	11.7 ±0.4

◆ G9B□□-□□□S00AU





OF Max. (gf)		RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	DT Max. (mm)	FP Max. (mm)	OP (mm)
−200	200	20	1.7	2.2	0.9	13.0	11.7 ±0.4