



G91 Series

Dustproof Mini Micro Switch

■ Features

- ◆ Small compact size
- ◆ Long life, high reliability
- ◆ Variety of terminals and levers
- ◆ Widely used in home appliances and other industry control

■ Application

- ◆ Auto
- ◆ Push Rod
- ◆ Tubular Motor
- ◆ Air-Conditioner
- ◆ Alarm
- ◆ Mixer & Meat Grinder
- ◆ Fax Machine
- ◆ Money Sorter
- ◆ Toy Car

■ Parameters:

Rating	P1	ENEC/UL: 0.1A 125/250V 48VDC Gold Plated Contact Optional
	05	ENEC: 5A 125/250VAC; 5A 1/8HP, 125/250VAC
	10	ENEC: 10(1.5A) 125/250VAC; UL: 10A 1/4HP 125/250VAC
Operating Frequency	Electrical	10~30 cycles/min
	Mechanical	120 cycles/min
Contact Resistance(Initiative)		100mΩ Max
Insulation Resistance(at 500VDC)		100MΩ Min
Dielectric Strength		AC 1,000V RMS (50~60Hz)
Operating Temperature		-40°C~+125°C or -40°C~+85°C
Operating Humidity		85%RH Max.
Service Life	Electrical	10,000~100,000 cycles (Depend on P/N)
	Mechanical	Min 1,000,000 cycles

G91 Series Micro Switch Ordering Instruction

G91	05	150	S	00	D	
Switch Type	Electrical Rating	Operating Force at Pin Plunger, Max	Terminal Style	Lever Type		Shape and Post
G91 Series Micro-Switch	P1	100 100gf Max.	S Solder Connect	00 No Lever Pin Plunger (Spherical surface)	15 With Bending 17.7mm Straight Lever 4.4mm	D Mounting Hole 2.30mm
	05	150 150gf Max.	P Straight PCB Connect(0.6mm wide)	0A Cambered Surface	20 Straight Lever 11.9mm	E Two Sides Posts Φ1.8mmX2.8mm
	10	250 250gf Max.	D 0.11" x0.023" Quick Connect	01 Short Straight Lever 17.7mm	F Right Side Posts Φ1.8mmX2.8mm	
			R Right Side PCB Connect	02 Std. Straight Lever 19.9mm		
	300 300gf Max.	L Left Side PCB Connect	03 Long Straight Lever 25.8mm	G Left Side Posts Φ1.8mmX2.8mm		
		K Wide Straight PCB Connect (0.6mm wide)	04 Long Straight Lever 55.30mm			
	... Other	05 Small Simulated Roller Lever 15.9mm	... Other			
		06 Roller Lever 15.8mm				
		07 Small Simulated Roller Lever 18.15mm				
		08 Small Simulated Roller Lever 19.00mm				
		11 Straight Lever 35.3mm				
		12 Simulate Arc Lever 14.70mm				

1		T001	U
Circuitry	Special Designator	Custom Code	LOGO
1 SPDT	General (Temperature grade 40T125)	General	U Unionwell
2 SPST-NC	T Temperature Grade 40T85	Customized according to requirements, the code format is T+serial number XXX, for example: T001	... Other
3 SPST-NO		... Other	

Terminal type for G91

Unit:mm

S Type Solder Terminals 	P Type Straight PCB Terminals (0.6mm wide)
D Type 110# Quick Connect Terminals (2.8x0.5mm) 	R Type Right Angled PCB Terminals
L Type Left Angled PCB Terminals 	K Type Straight PCB Terminals (1.3mm Wide)

Mounting Hole and Operating Characteristics

Mounting holes
2- ϕ 2.3 mounting holes or M2.2 screw holes

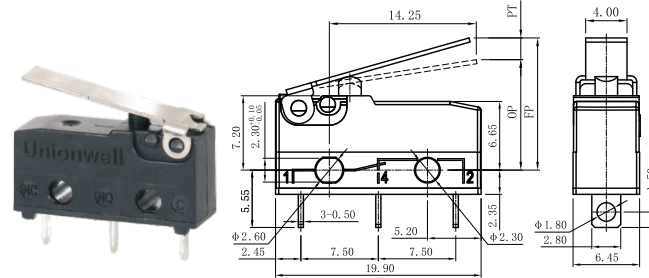
Dimensions and Operating Characteristics

Pin Plunger

Part NO.	Parameters							
	OF Max. (N)	RF Min. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)		
G91□□-100□00D1U	1.00	100	0.10	10	1.1	0.6	0.2	8.4±0.3
G91□□-150□00D1U	1.50	150	0.35	35	1.1	0.6	0.2	8.4±0.3
G91□□-250□00D1U	2.50	250	0.40	40	1.1	0.6	0.2	8.4±0.3
G91□□-300□00D1U	3.00	300	0.60	60	1.1	0.6	0.2	8.4±0.3

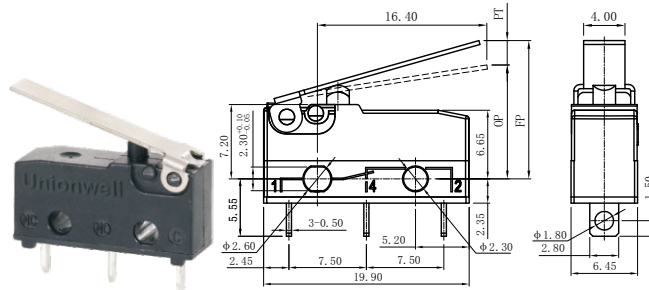
◆ Dimensions and Operating Characteristics

◆ Short Straight Lever



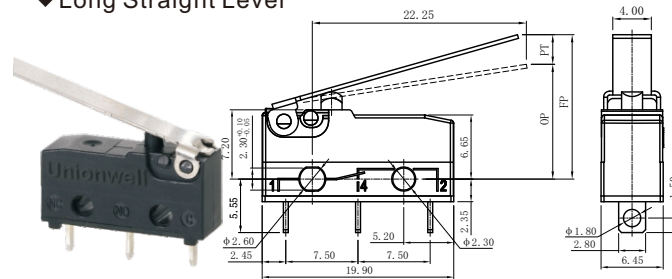
Part NO.	Parameters							
	OF Max. (N)	OF Min. (gf)	RF Min. (N)	RF Max. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G91□□-100□01D1U	0.45	45	0.03	3	4.3	1.2	0.8	10.70±1.3
G91□□-150□01D1U	0.60	60	0.08	8	4.3	1.2	0.8	10.70±1.3
G91□□-250□01D1U	0.85	85	0.10	10	4.3	1.2	0.8	10.70±1.3
G91□□-300□01D1U	1.20	120	0.15	15	4.3	1.2	0.8	10.70±1.3

◆ Std. Straight Lever



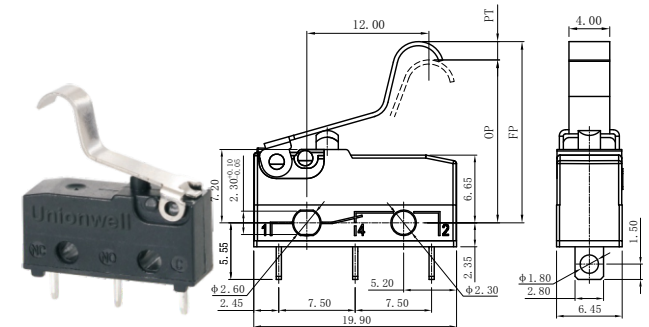
Part NO.	Parameters							
	OF Max. (N)	OF Min. (gf)	RF Min. (N)	RF Max. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G91□□-100□02D1U	0.40	40	0.02	2	4.8	1.2	1.2	11.1±1.5
G91□□-150□02D1U	0.50	50	0.06	6	4.8	1.2	1.2	11.1±1.5
G91□□-250□02D1U	0.75	75	0.08	8	4.8	1.2	1.2	11.1±1.5
G91□□-300□02D1U	1.10	110	0.12	12	4.8	1.2	1.2	11.1±1.5

◆ Long Straight Lever



Part NO.	Parameters							
	OF Max. (N)	OF Min. (gf)	RF Min. (N)	RF Max. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G91□□-100□03D1U	0.35	35	0.01	1	6.3	1.5	1.5	12.0±1.8
G91□□-150□03D1U	0.40	40	0.04	4	6.3	1.5	1.5	12.0±1.8
G91□□-250□03D1U	0.65	65	0.06	6	6.3	1.5	1.5	12.0±1.8
G91□□-300□03D1U	0.90	90	0.10	10	6.3	1.5	1.5	12.0±1.8

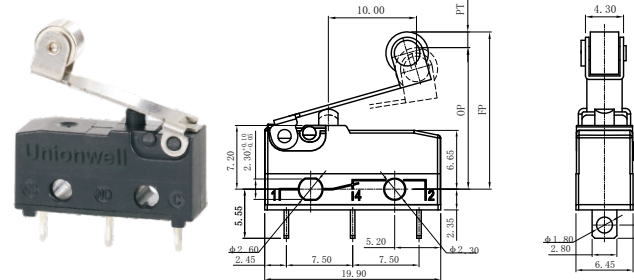
◆ Short Std. Simulated Roller Lever



Part NO.	Parameters							
	OF Max. (N)	OF Min. (gf)	RF Min. (N)	RF Max. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G91□□-100□05D1U	0.50	50	0.03	3	4.3	1.0	0.7	16.0±1.3
G91□□-150□05D1U	0.65	65	0.08	8	4.3	1.0	0.7	16.0±1.3
G91□□-250□05D1U	0.95	95	0.12	12	4.3	1.0	0.7	16.0±1.3
G91□□-300□05D1U	1.30	130	0.16	16	4.3	1.0	0.7	16.0±1.3

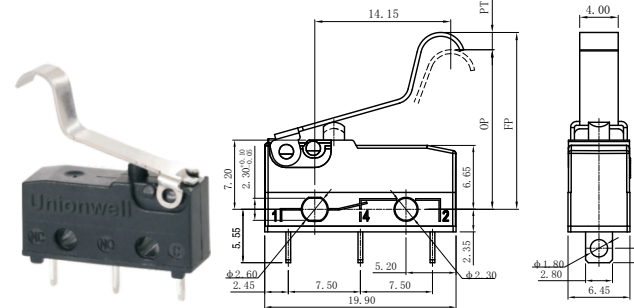
◆ Dimensions and Operating Characteristics

◆ Short Roller Lever



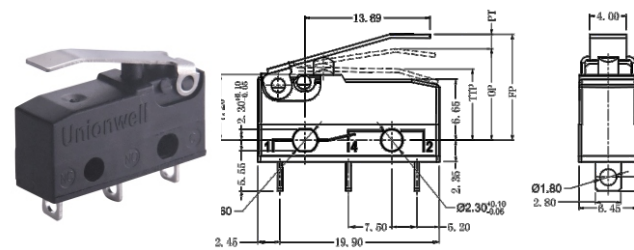
Part NO.	Parameters							
	OF Max. (N)	OF Min. (gf)	RF Min. (N)	RF Max. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G91□□-100□06D1U	0.50	50	0.03	3	4.3	1.0	0.7	15.8±1.3
G91□□-150□06D1U	0.65	65	0.08	8	4.3	1.0	0.7	15.8±1.3
G91□□-250□06D1U	0.95	95	0.12	12	4.3	1.0	0.7	15.8±1.3
G91□□-300□06D1U	1.30	130	0.16	16	4.3	1.0	0.7	15.8±1.3

◆ Long Std. Simulated Roller Lever



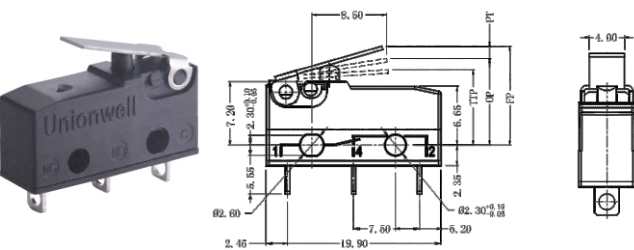
Part NO.	Parameters							
	OF Max. (N)	OF Min. (gf)	RF Min. (N)	RF Max. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G91□□-100□07D1U	0.45	45	0.03	3	4.8	1.3	1.0	16.4±1.5
G91□□-150□07D1U	0.60	60	0.08	8	4.8	1.3	1.0	16.4±1.5
G91□□-250□07D1U	0.85	85	0.11	11	4.8	1.3	1.0	16.4±1.5
G91□□-300□07D1U	1.20	120	0.15	15	4.8	1.3	1.0	16.4±1.5

◆ Bent Lever



Part NO.	Parameters							
	OF Max. (N)	OF Min. (gf)	RF Min. (N)	RF Max. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G91□□-100□15D1U	0.6	60	0.03	30	3.4	1.3	0.8	9.5±0.80
G91□□-150□15D1U	0.9	90	0.05	50	3.4	1.3	0.8	9.5±0.80
G91□□-250□15D1U	1.5	150	0.08	80	3.4	1.3	0.8	9.5±0.80
G91□□-300□15D1U	1.8	180	0.09	90	3.4	1.3	0.8	9.5±0.80

◆ Short Straight Lever



Part NO.	Parameters							
	OF Max. (N)	OF Min. (gf)	RF Min. (N)	RF Max. (gf)	PT Max. (mm)	OT Min. (mm)	MD Max. (mm)	OP (mm)
G91□□-100□20D1U	0.6	60	0.05	20	2.9	0.8	0.5	9.8±0.90
G91□□-150□20D1U	0.9	90	0.035	35	2.9	0.8	0.5	9.8±0.90
G91□□-250□20D1U	1.5	150	0.06	60	2.9	0.8	0.5	9.8±0.90
G91□□-300□20D1U	1.8	180	0.07	70	2.9	0.8	0.5	9.8±0.90