

G91 Series

Dustproof Miniature 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℃~+125℃ or -40℃~ +85℃
Operating Humidity		85%RH Max.
Service Life	Electrical	10,000~100,000 cycles (Depend on P/N)
	Mechanical	Min 1,000,000 cycles

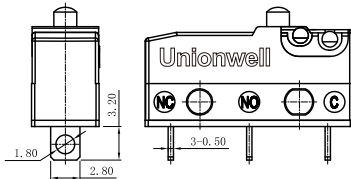
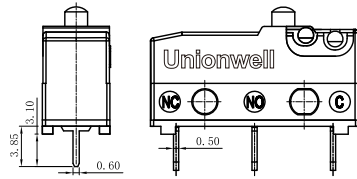
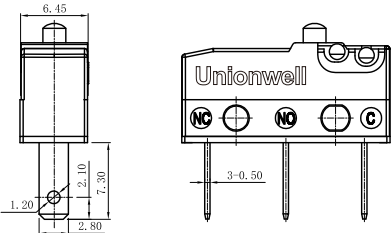
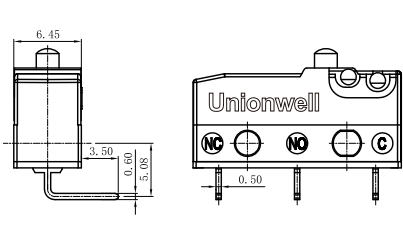
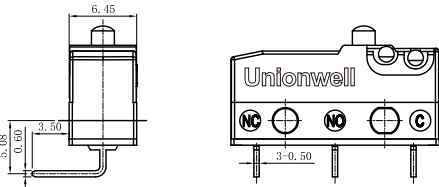
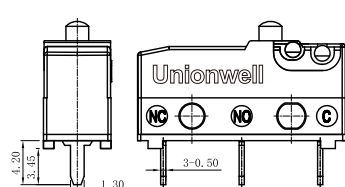
G91 Series Micro Switch Ordering Instruction

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-	P1 ENEC/CQC: 0.1A 125/250VAC 48VDC 25T25 μ 5E4 UL/cUL: 0.1A 125/250VAC 48VDC	100 100gf Max.	S Solder Connect	00 No lever Pin Plunger (Spherical surface)	08 Small Simulated Roller Lever 19.00mm	D Mounting Hole 2.30mm
	05 ENEC/CQC: 5A 125/250VAC 40T25 μ 5E4 UL/cUL: 5A 125/250VAC	150 150gf Max.	P Straight PCB Connect (0.6mm wide)	0A Cambered Surface	11 Straight Lever 35.3mm	E Φ1.8mmX2.8mm Two Sides Posts Φ1.8mmX2.8mm
	10 ENEC/CQC: 10(1.5)A 125/250VAC μ 40T125 UL/cUL: 10.1A 1/4HP 125/250VAC	250 250gf Max.	D 0.11"x0.023" Quick Connect	01 Short Straight Lever 17.7mm	12 Simulate Arc Lever 14.70mm	F Φ1.8mmX2.8mm Right Side Posts Φ1.8mmX2.8mm
		300 300gf Max.	R Right Side PCB Connect	02 Std. Straight Lever 19.9mm	15 With Bending 17.7mm Straight Lever 4.4mm	G Φ1.8mmX2.8mm Left Side Posts Φ1.8mmX2.8mm
			L Left Side PCB Connect	03 Long Straight Lever 25.8mm	20 Straight Lever 11.9mm	
			K Wide Straight PCB Connect (0.6mm wide)	04 Long Straight Lever 55.30mm		
			... Other	05 Small Simulated Roller Lever15.9mm		
				06 Roller Lever15.8mm		
				07 Small Simulated Roller Lever18.15m		

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	T001 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 (2.8×0.5mm) 	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

■ Dimensions and Operating Characteristics

- ◆ Pin Plunger

PT-100 P/N: 100

Technical drawing of the PT-100 temperature sensor. The side view shows a rectangular body with a mounting flange. Dimensions include: total width 7.20, mounting hole diameter $\phi 2.18$, flange width 7.50, body width 9.50, mounting hole offset 6.45, and total height 19.90. The top view shows a square body with side length 7.50, mounting hole diameter $\phi 2.18$, and mounting hole offset 6.45. The drawing also includes a table of parameters for the sensor.

Part NO.	Parameters							
	OF Max. (N)	RF Min. (N)	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

Technical drawing of the PT-100 temperature sensor. The side view shows a rectangular body with a mounting flange. Dimensions include: total width 7.20, mounting hole diameter $\phi 2.18$, flange width 7.50, body width 9.50, mounting hole offset 6.45, and total height 19.90. The top view shows a square body with side length 7.50, mounting hole diameter $\phi 2.18$, and mounting hole offset 6.45. The drawing also includes a table of parameters for the sensor.

Part NO.	Parameters							
	OF Max. (N)	RF Min. (N)	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

Figure 1: Dimensions of the relay. The figure includes a photograph of the relay, a side view, a top view, and a front view. Dimensions are provided in millimeters (mm). The side view shows a height of 7.20 mm, a base width of 19.90 mm, and a mounting hole diameter of 2.30 mm. The top view shows a width of 14.25 mm and a depth of 6.45 mm. The front view shows a width of 6.45 mm and a height of 4.00 mm. The relay is labeled 'Unionwell'.

◆ Std. Straight Lever

Technical drawing of a pressure washer trigger gun assembly. The drawing includes a perspective view of the black plastic trigger gun with a white trigger gun attached. The side view shows the trigger gun's dimensions: 16.40 (length), 4.00 (height), 7.20 (width), 2.30 (width), 6.55 (width), 6.45 (width), 19.90 (length), 7.50 (length), 7.50 (length), 2.45 (length), 2.60 (length), 3-0.50 (length), 5.20 (length), 2.35 (length), 2.30 (length). The top view shows the trigger gun's dimensions: 1.50 (height), 6.45 (width), 2.80 (width), 1.80 (width). The drawing also includes a table of parameters for the G91 series.

Part NO.	Parameters							
	OF	RF	PT	OT	MD	OP		
	Max.	Min.	Max.	Min.	Max.			
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

Technical drawing of the Unionwell G91 series pressure washer trigger gun. The drawing includes a perspective view of the black trigger gun with a silver spray lance attached. The main view is a cross-section of the trigger gun body, showing internal components like the piston and valve mechanism. Dimensions are provided in millimeters (mm). Key dimensions include overall length (22.25), height (PT, FP, OP), width (4.00), and various diameters (φ2.60, φ1.80, φ2.30). The bottom view shows the base of the trigger gun with dimensions 19.90, 7.50, 7.50, 2.45, 5.20, 2.35, and 2.30. The side view shows the trigger gun with dimensions 1.50, 6.45, and 2.80.

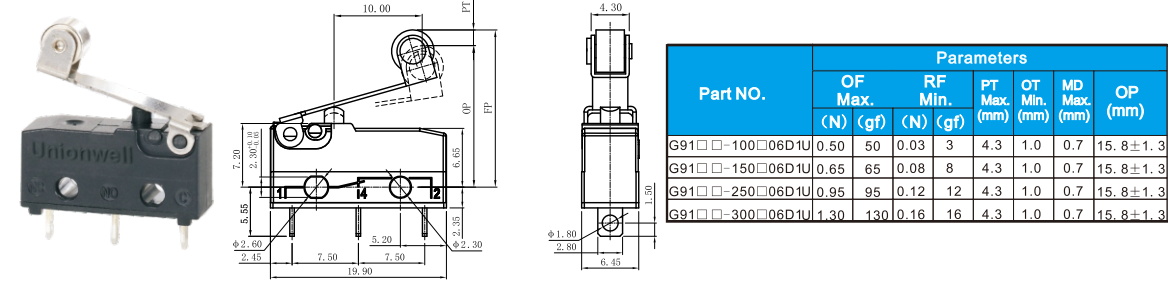
Part NO.	Parameters							
	OF	RF	PT	OT	MD	OP		
	Max. (N) (gf)	Min. (N) (gf)	Max. (mm)	Min. (mm)	Max. (mm)	(mm)		
G91□□-100□03D1U	0.35	35	0.01	1	6.3	1.5	1.5	12.0±1.8
G91□□-150□03D1U	0.40	40	0.04	4	6.3	1.5	1.5	12.0±1.8
G91□□-250□03D1U	0.65	65	0.06	6	6.3	1.5	1.5	12.0±1.8
G91□□-300□03D1U	0.90	90	0.10	10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

◆ Short Std. Simulated Roller Lever

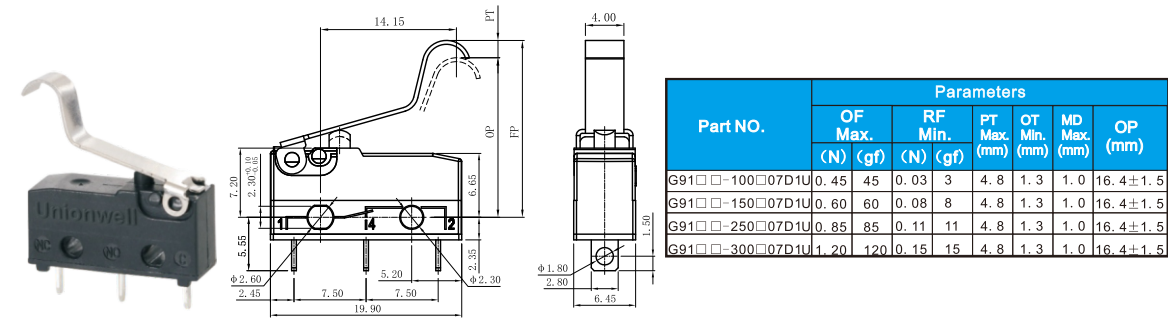
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■ Dimensions and Operating Characteristics

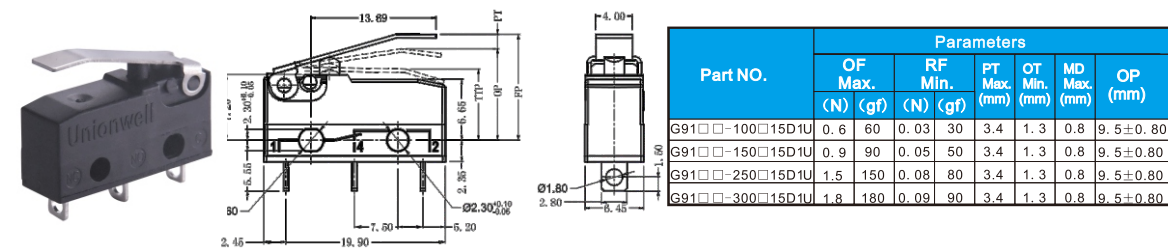
◆ Short Roller Lever



◆ Long Std. Simulated Roller Lever



◆ Bent Lever



◆ Short Straight Lever

