

F1

Snap-action Microswitches

Ultraminiature

F1

- Characteristics
- High electrical rating from a very small switch
 - Gold plated contacts
 - PCB mounting from side
 - UL and CSA approved

Rating Up to 250 VAC, 5 A

Dimensions (mm) $16 \times 6.5 \times 5.7$

Actuator Plunger, plain lever

Approvals UL, CSA



Preferred Range

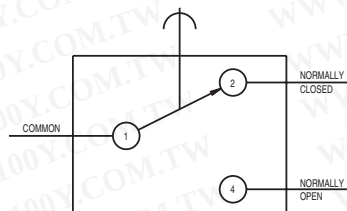
Ordering Reference	Actuating Force (N) (ozf)		Sealing	Operating pos. (mm) (in)		Terminal	Circuit	Actuator	Contacts	Electrical rating
F1T8GPUL	1.4	5.00	IP40	6.35	0.25	PCB	CO	Plunger	Gold plate	Up to 250 VAC, 5 A
F1T8Y1GPUL	0.5	1.8	IP40	8.5	0.33	PCB	CO	Lever	Gold plate	Up to 250 VAC, 5 A

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
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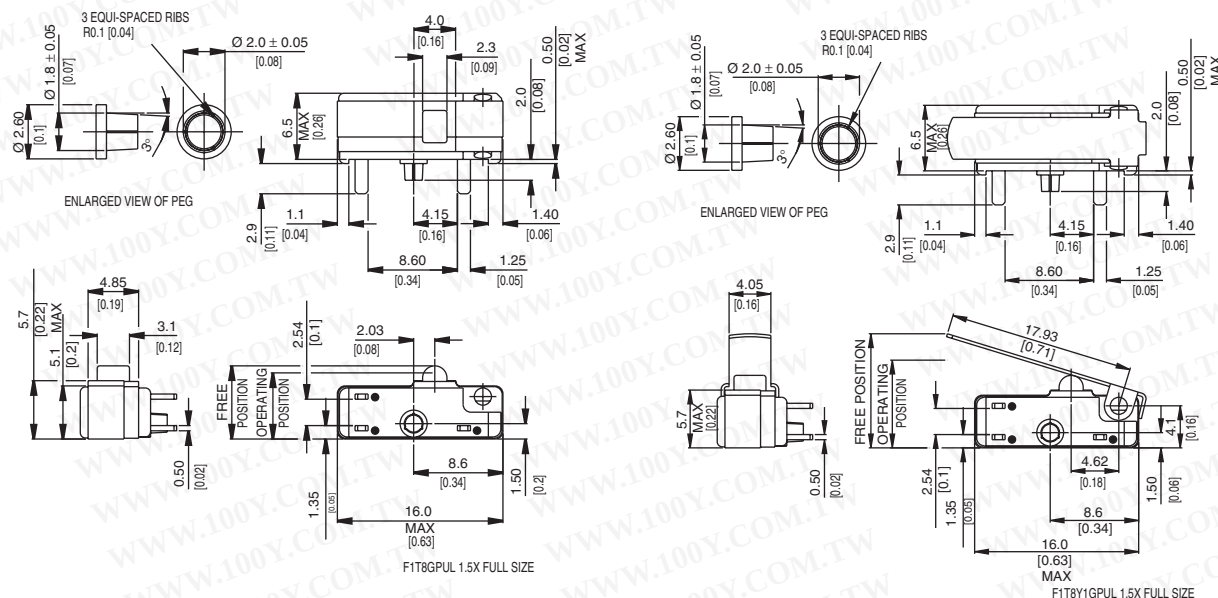
Specifications

Housing	Glass fibre reinforced nylon
Plunger	Nylon
Mechanism	Snap-action, coil spring mechanism with stainless steel spring
Functions	Single pole change-over
Contacts	Gold plate on silver
Terminals	PCB - copper, gold-flashed
Temperature range °C	-40°C to +85°C
Mechanical life	10 ⁶ cycles minimum (impact-free actuation)
Protection	IP40 (enclosure)
Mounting	Side mount PCB with locating pin on housing
Actuators	Plain plunger, straight lever

Circuit diagram



Dimensions



Recommended maximum electrical ratings

Voltage (max)	Resistive load (A)	Inductive load	Approval
250 VAC	5 (0.75 pf)	5	UL 1054/CSA 22.2 No. 55 - 6.000 operations
0 - 15 VDC	5		General rating - 50.000 operations
15 - 30 VDC	10	10	General rating - 50.000 operations

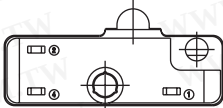
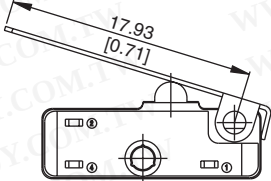
F1 switches have gold-plated silver contacts.

Switches with gold-plated contacts are intended for use in circuits where switching is at milliwatt levels.

In this case, the power being switched must be limited to avoid the erosion of gold plate from the contact area.

However, as the underlying contacts are silver, the same power ratings apply.

Operating Characteristics

Actuator	Reference	Actuating Force Maximum		Release Force Minimum		Free Position Maximum		Operating Position		Movement Differential Maximum		Over Travel	
		(N)	(ozf)	(N)	(ozf)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
Plunger	F1T8GPUL	1,4	5,00	0,28	1,00	7,1	0,28	6,35 ± 0,38	0,25 ± 0,015	0,1	0,004	*	
													
Straight lever	F1T8Y1GPUL	0,5	1,8	0,06	0,022	11,0	0,43	8,5 ± 1,5	0,33 ± 0,06	0,5	0,02	*	
													

Width of lever 4.05 mm/0.16 in

* Plunger can be depressed flush with housing. The housing should not be used as an end stop.

Ordering Reference

F1

Terminals	T8	PCB
Circuit	No digit	Change-over
Actuators	No digit	Plunger
	Y1	Plain lever
	YR1	Roller lever
Contacts	GP	Gold plate on silver
Approvals	UL	UL and CSA

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