Snap-action Microswitches

Ultraminiature

F4

- Characteristics High electrical rating from a very small switch
 - Long mechanical and electrical life
 Gold-plated contact option

Rating Up to 250 VAC, 5 A

Dimensions (mm) $12.8 \times 10 \times 5$

Actuator Plunger, plain lever, simulated roller (cam follower) lever

Approvals UL and CSA



Preferred Range

Ordering Reference	Actuatin (N)	g Force (ozf)	Sealing	Operating po (mm)	s. (in)	Terminal	Circuit	Actuator	Contacts	Electrical rating
F4T7UL	1.4	5.00	IP40	8.1	0.32	Solder	CO	Plunger	Silver	Up to 250 VAC, 5 A
F4T7GPUL	1.4	5.00	IP40	8.1	0.32	Solder	CO	Plunger	Gold plate	Up to 250 VAC, 5 A
F4T7Y1UL	0.6	2.20	IP40	8.2	0.32	Solder	CO	Plain lever	Silver	Up to 250 VAC, 5 A
F4T7Y1GPUL	0.6	2.20	IP40	8.2	0.32	Solder	CO	Plain lever	Gold plate	Up to 250 VAC, 5 A
F4T7YCUL	0.7	2.50	IP40	10.3	0.41	Solder	CO	Simulated roller	Silver	Up to 250 VAC, 5 A
F4T7YCGPUL	0.7	2.50	IP40	10.3	0.41	Solder	CO	Simulated roller	Gold plate	Up to 250 VAC, 5 A

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Specifications

Housing Glass fibre reinforced nylon

Plunger Nylon

Mechanism Snap-action, single pole

Functions Change-over, Normally open, Normally closed Contacts Fixed, Moving - Silver or Gold plate on silver

Terminals 2.0 mm (0.08 in) faston and solder - brass, gold flashed

Temperature range °C -40°C to +85°C

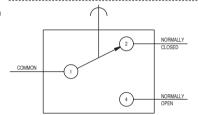
Mechanical life 10⁷ cycles minimum (impact free actuation)

Protection IP 40 (enclosure) Mounting Side mounting

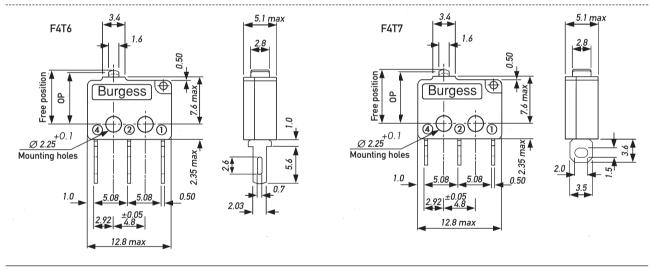
Actuators Plain lever; simulated roller (cam follower) lever

Accessories Lug mounting frame, insulating sheet, spring-leaf actuator

Circuit diagram



Dimensions



Recommended maximum electrical ratings

Voltage (max)	Load (A)	Approval
250 VAC	5 (0.75 pf)	UL 1054/CSA 22.2 No. 55 - 6,000 operations
125 VAC	5 (0.75 pf)	UL 1054/CSA 22.2 No. 55 - 6,000 operations
0 - 15 VDC	5	General rating - 50,000 operations
15 - 30 VDC	3	General rating - 50,000 operations

F4 switches are available with either silver or 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.

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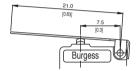
Operating Characteristics

	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)	
Plunger		F4T6	1,4	5,00	0,25	0,90	8,8	0,35	8,1 +0.3	0,32 +0.01	0,13	0,005	*



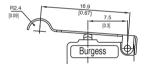
Y1-Lever F4T6Y1 F4T7Y1

0,6 2,20 0,07 0,25 10,0 0,39 $8.2_{-0.7}^{+1.0}$ 0,32 $_{-0.03}^{+0.04}$ 0,70 0,030



Width of lever 3.0 mm/0.12 in

YC-Lever F4T6YC 0.7 2.50 0.09 0.32 11.7 0.46 10.3 +0.8 0.41 +0.03 -0.02 0.45 0.020



Width of lever 3.0 mm/0.12 in

Operating characteristics are specified from the mounting holes.

Ordering Reference

	F4			
Terminals	T6 T7 T8	Solder	2.03 × 0.5 × 6.6 long 3.50 × 0.5 × 3.6 long 0.8 × 0.5 × 4.0 long	
Circuit	C2 C4	No symbol Normally closed Normally open	Change over	
Actuators	Y1 YC	No symbol Plain lever 21,0 mm Cam follower lever 16,9	Without lever	
Contacts	GP	No symbol Gold plate on silver (GP)	Fine silver	
	Approvals UL	No symbol UL and CSA approval	Without approval	

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

Snap-action Microswitches

Ultraminiature

F5

- High electrical rating from a very small switch
 Long mechanical and electrical life
- PCB terminals
- Gold-plated contact option
 UL and CSA approved

Rating Up to 250 VAC, 5 A

Dimensions (mm) $12.8 \times 7.25 \times 5$

Actuator Plunger, plain lever, simulated roller (cam follower) lever

Approvals UL and CSA



Preferred Range

Ordering Reference	Actuatin (N)	g Force (ozf)	Sealing	Operating po (mm)	s. (in)	Terminal	Circuit	Actuator	Contacts	Electrical rating
F5T8UL	1.4	5.00	IP40	8.75	0.34	PCB	CO	Plunger	Silver	Up to 250 VAC, 5 A
F5T8GPUL	1.4	5.00	IP40	8.75	0.34	PCB	CO	Plunger	Gold plate	Up to 250 VAC, 5 A
F5T8Y1UL	0.6	2.20	IP40	8.80	0.35	PCB	CO	Plain lever	Silver	Up to 250 VAC, 5 A
F5T8Y1GPUL		2.20	IP40	8.80	0.35	PCB	CO	Plain lever	Gold plate	Up to 250 VAC, 5 A
F5T8YCUL		2.50	IP40	10.90	0.43	PCB	CO	Simulated roller	Silver	Up to 250 VAC, 5 A
F5T8YCGPUL	0.7	2.50	IP40	10.90	0.43	PCB	CO	Simulated roller	Gold plate	Up to 250 VAC, 5 A

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