F5

Snap-action Microswitches

Ultraminiature

F5

Characteristics
- small switch
- long mechanical and electrical life
- PCB mounting

Rating 250 VAC, 5 A

Dimensions (mm) 12.8 × 7 × 5

Actuator
- plunger
- plain lever
- simulated roller lever/cam follower

Approvals UL, CSA

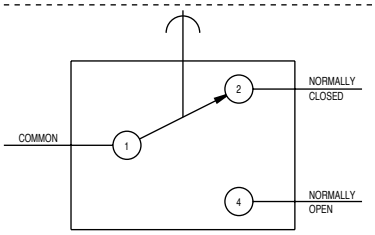
Preferred Range

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

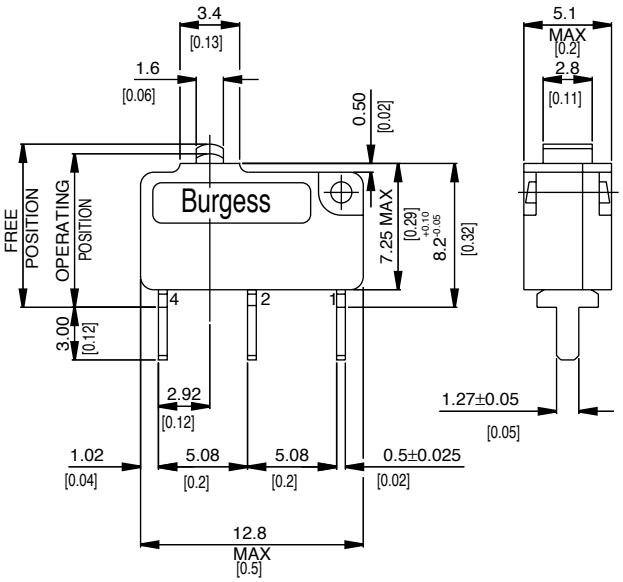
Specifications

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	PCB - Brass, gold flashed
Temperature range °C	-40°C to +85°C
Mechanical life	10^7 cycles minimum (impact free actuation)
Protection	IP 40 (enclosure)
Mounting	PCB
Actuators	Plain lever; simulated roller (cam follower) lever

Circuit diagram



Dimensions

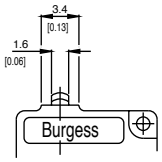


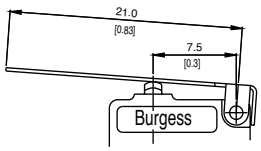
Recommended maximum electrical ratings

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	1	General rating - 50,000 operations

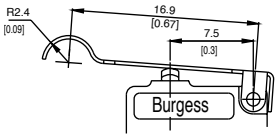
Operating Characteristics

Actuator	Reference	Actuating Force Maximum (N)	(ozf)	Release Force Minimum (N)	(ozf)	Free Position Maximum (mm)	(in)	Operating Position (mm)	(in)	Movement Differential Maximum (mm)	(in)	Over travel
Plunger	F5T8	1,4	5,00	0,25	0,90	9.5	0,37	8,75 ± 0,3	0,34 ± 0,012	0,13	0,005	*
Y1-Lever	F5T8Y1	0,6	2,20	0,07	0,25	10,7	0,42	8,8 ± 1,1	0,35 ± 0,04	0,70	0,030	*
YC-Lever	F5T8YC	0,7	2,50	0,09	0,32	12.4	0,49	10,9 ± 0.85	0,43 ± 0,03	0,45	0,020	*





Width of lever 3.0 mm/0.12 in



Width of lever 3.0 mm/0.12 in

Operating characteristics are specified from the terminal shoulder.

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

Type coding key for standard products

Example: F5 | T8 | C2 | Y1 | GP | UL

Basic type	F5		
Terminals	T8	PCB	1.27 × 0.5 × 3.0 long
Circuit		No symbol, change-over	
	C2	Normally closed	
	C4	Normally open	
Actuators		No symbol, without lever	
	Y1	Plain lever 21.0 mm	
	YC	Cam follower lever 16.9 mm	
Contact Material		No symbol, Ag	
	GP	Gold plate on Ag (GP)	
Approvals		No symbol, without approval	
	UL	UL and CSA approval	
Special Features	/□□□□	Saia-Burgess specialise in customer specific solutions. Additional product variants are available or can be provided. If your requirements cannot be satisfied from the options listed, please contact www.saia-burgess.com or your local SB outlet.	