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 x 10 x 5
Actuator	Plunger, plain lever, simulated roller (cam follower) lever
Approvals	UL and CSA



Preferred Product Range

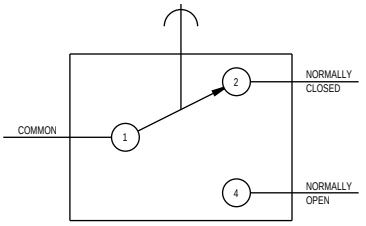
Ordering Reference	Actuating Force (N)	(oz)	Sealing	Operating position (mm)	(in)	Terminal	Circuit	Actuator	Contacts	Electrical rating
F4T7UL	1.4	5.0	IP40	8.1	0.32	Solder	CO	Plunger	Silver	Up to 250 VAC, 5 A
F4T7GPUL	1.4	5.0	IP40	8.1	0.32	Solder	CO	Plunger	Gold plate	Up to 250 VAC, 5 A
F4T7Y1UL	0.6	2.2	IP40	8.2	0.32	Solder	CO	Plain lever	Silver	Up to 250 VAC, 5 A
F4T7Y1GPUL	0.6	2.2	IP40	8.2	0.32	Solder	CO	Plain lever	Gold plate	Up to 250 VAC, 5 A
F4T7YCUL	0.7	2.5	IP40	10.3	0.41	Solder	CO	Simulated roller	Silver	Up to 250 VAC, 5 A
F4T7YCGPUL	0.7	2.5	IP40	10.3	0.41	Solder	CO	Simulated roller	Gold plate	Up to 250 VAC, 5 A

A

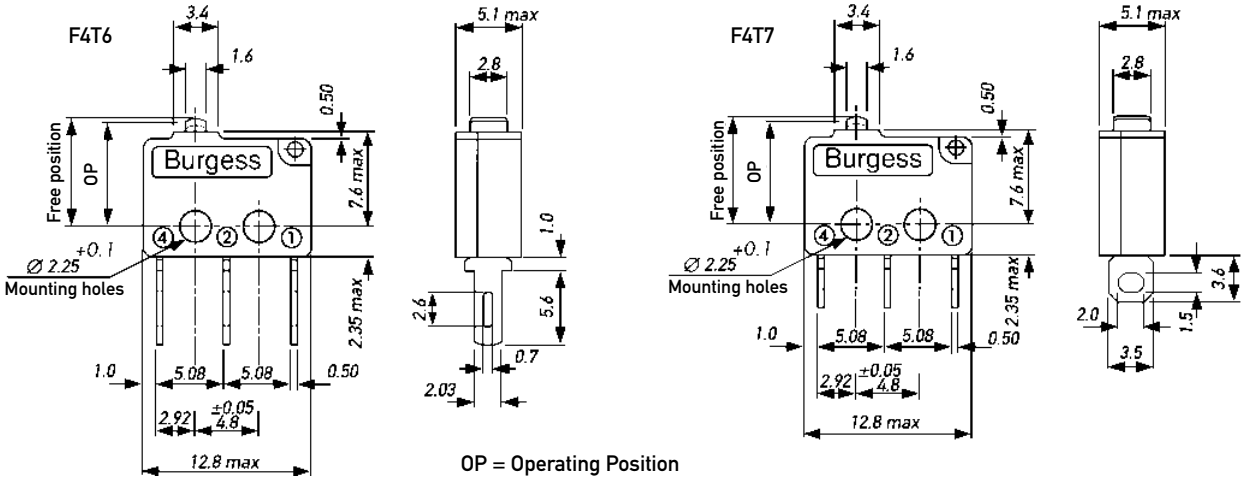
Specifications

Housing	Glass fiber 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	10^7 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 (mm)



OP = Operating Position

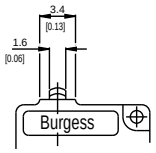
Recommended Maximum Electrical Ratings

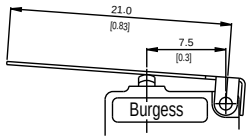
Voltage (max)	Load (A)	Approval
250 VAC	5 (0.75 pf)	UL 1054/CSA 22.2 No. 55 - 6,000 operations
125 VAC	5 (0.75 pf)	UL 1054/CSA 22.2 No. 55 - 6,000 operations
0 - 15 VDC	5	General rating - 50,000 operations
15 - 30 VDC	3	General rating - 50,000 operations

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.

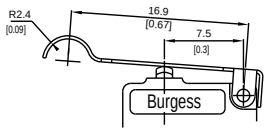
Operating Characteristics

	Actuator	Reference	Actuating Force Maximum (N)	(oz)	Release Force Minimum (N)	(oz)	Free Position Maximum (mm)	(in)	Operating Position (mm)	(in)	Movement Differential Maximum (mm)	(in)	Over travel
Plunger mm [in]		F4T6 F4T7	1.4	5.0	0.25	0.90	8.8	0.35	8.1 $^{+0.3}_{-0.2}$	0.32 $^{+0.01}_{-0.008}$	0.13	0.005	*
Y1-Lever mm [in]		F4T6Y1 F4T7Y1	0.6	2.2	0.07	0.25	10.0	0.39	8.2 $^{+1.0}_{-0.7}$	0.32 $^{+0.04}_{-0.03}$	0.70	0.030	*
YC-Lever mm [in]		F4T6YC F4T7YC	0.7	2.5	0.09	0.32	11.7	0.46	10.3 $^{+0.8}_{-0.55}$	0.41 $^{+0.03}_{-0.02}$	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 mounting holes.

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

Ordering Reference – How to Build a Part Number

F4

Terminals	T6	Faston	
	T7	Solder	
Circuit	No digit	Change-over	
	C2	Normally closed	
	C4	Normally open	
Actuators	No digit	Plunger	
	Y1	Plain lever	21.0 mm (0.83 in)
	YC	Simulated roller	16.9 mm (0.67 in)
Contacts	No digit	Silver	
	GP	Gold plate on silver	
Approvals	UL	UL and CSA	