

# FK4

## Special Switches

Double break

### FK4

Characteristics	<ul style="list-style-type: none"> <li>■ Double break mechanism</li> <li>■ Very small size</li> <li>■ Solder or PCB terminals</li> </ul>
Rating	Up to 250 VAC, 5 A
Dimensions (mm)	18 × 8 × 5
Actuator	Plunger, plain lever, simulated roller (cam follower) lever
Approvals	UL and CSA



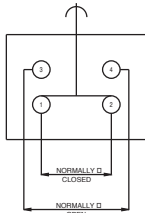
### Preferred Range

Ordering Reference	Actuating Force		Sealing	Operating pos.		Terminal	Circuit	Actuator	Contacts	Electrical rating
	(N)	(ozf)		(mm)	(in)					
FK4T7UL	1.8	6.5	IP40	8.25	0.32	Solder	SPDT	Plunger	Silver	Up to 250 VAC, 5 A
FK4T7Y1UL	0.8	2.9	IP40	8.25	0.32	Solder	SPDT	Plain lever	Silver	Up to 250 VAC, 5 A
FK4T7YCUL	1.0	3.6	IP40	10.40	0.41	Solder	SPDT	Simulated roller	Silver	Up to 250 VAC, 5 A
FK4T8UL	1.8	6.5	IP40	11.60	0.45	PCB	SPDT	Plunger	Silver	Up to 250 VAC, 5 A
FK4T8Y1UL	0.8	2.9	IP40	11.55	0.45	PCB	SPDT	Plain lever	Silver	Up to 250 VAC, 5 A
FK4T8YCUL	1.0	3.6	IP40	13.70	0.54	PCB	SPDT	Simulated roller	Silver	Up to 250 VAC, 5 A

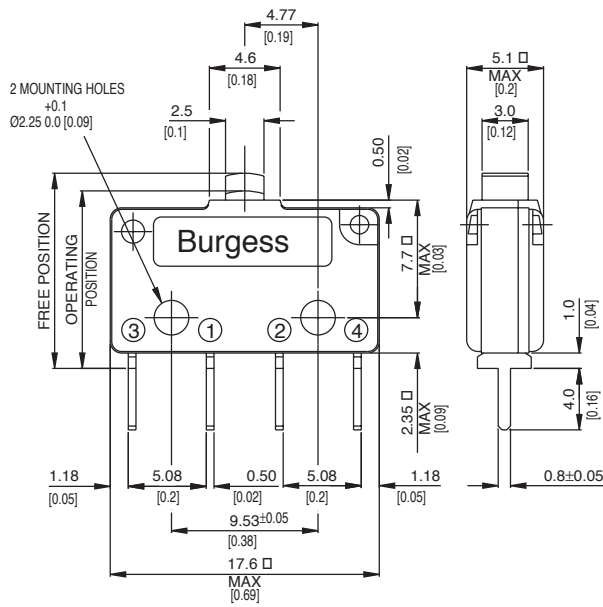
## Specifications

Housing	Glass fibre reinforced nylon
Plunger	Nylon
Mechanism	Double pole, single throw snap-action coil spring mechanism with stainless steel springs
Functions	Change-over, NO, NC
Contacts	Silver
Terminals	Solder, PCB - brass, gold flashed
Temperature range °C	-40°C to +85°C
Mechanical life	10 <sup>7</sup> cycles minimum (impact free actuation)
Protection	IP40 (enclosure)
Mounting	Side mounting or PCB mounting (T8 only)
Actuators	Plain lever, simulated roller (cam follower) lever
Accessory	Insulating sheet

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

Values shown are recommended maximum ratings for single circuit switching

Operating Characteristics

Actuator	Reference	Actuating Force Maximum		Release Force Minimum		Free Position Maximum		Operating Position		Movement Differential Maximum	
		(N)	(ozf)	(N)	(ozf)	(mm)	(in)	(mm)	(in)	(mm)	(in)
Plunger 	FK4T7*	1.8	6.50	0.25	0.9	9.4	0.37	8.25 ± 0.25	0.32 ± 0.01	0.50	0.02
	FK4T8 <sup>1)</sup>	1.8	6.50	0.25	0.9	12.75	0.50	11.60 ± 0.45	0.45 ± 0.02	0.50	0.02
Y1 Lever 	FK4T7Y1	0.8	2.90	0.09	0.3	12.1	0.48	8.25 ± 0.9	0.32 ± 0.04	1.85	0.07
	FK4T8Y1	0.8	2.90	0.09	0.3	15.6	0.61	11.55 ± 1.1	0.45 ± 0.04		
Width of lever 3.0 mm/0.12 in											
YC Lever 	FK4T7YC	1.0	3.60	0.1	0.4	13.5	0.53	10.40 ± 0.6	0.41 ± 0.02	1.30	0.05
	FK4T8YC	1.0	3.60	0.1	0.4	17.0	0.67	13.70 ± 0.8	0.54 ± 0.03		
Width of lever 3.0 mm/0.12 in											

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

Datum for free position and operating position

\* FK4T7 – Centre of fixing hole

<sup>1)</sup> FK4T8 – Terminal shoulder

Ordering Reference

Type	FK4	
Terminals	T7	Solder 0.5 × 3.5
	T8	PCB 0.5 × 0.8
Actuators	No digit	Plunger
	Y1	Plain lever
	YC	Simulated roller (cam follower) lever
Approvals	UL	UL and CSA