

XC

Snap-action Microswitches

Subminiature

XC

- Characteristics
- Wide range of actuating forces
 - Long mechanical and electrical life
 - Solder, PCB, faston (quick connect) terminals

Rating 250 V, 10 A

Dimensions (mm) 19.9 × 9.5 × 6.4

Actuator Plunger, plain, roller, plastic, simulated roller lever

Approvals UL, cUL, CSA, ENEC



Preferred Range

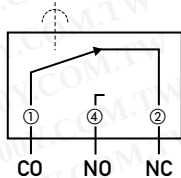
Ordering Reference	Actuating Force (N) (ozf)		Operating pos. (mm) (in)		Terminal	Circuit	Actuator	Contacts	Electrical rating ENEC	UL/CSA
XCG3Z1	1.7	6.07	8.4	0.33	Solder	CO	Plunger	Ag	6(2) A	5 A
XCG3-J1Z1	0.6	2.14	10.2	0.40	Solder	CO	Plain lever	Ag	6(2) A	5 A
XCG3-S1Z1	0.7	2.49	15.6	0.61	Solder	CO	Roller lever	Ag	6(2) A	5 A
XCG5Z1	1.7	6.07	8.4	0.33	Faston 2.8 × 0.5 mm	CO	Plunger	Ag	6(2) A	5 A
XCG5-J1Z1	0.6	2.14	10.2	0.40	Faston 2.8 × 0.5 mm	CO	Plain lever	Ag	6(2) A	5 A
XCG5-S1Z1	0.7	2.49	15.6	0.61	Faston 2.8 × 0.5 mm	CO	Roller lever	Ag	6(2) A	5 A
XCG8Z1	1.7	6.07	8.4	0.33	PCB	CO	Plunger	Ag	6(2) A	5 A
XCG8-J1Z1	0.6	2.14	10.2	0.40	PCB	CO	Plain lever	Ag	6(2) A	5 A
XCG8-S1Z1	0.7	2.49	15.6	0.61	PCB	CO	Roller lever	Ag	6(2) A	5 A
XCF3Z1	3	10.70	8.4	0.33	Solder	CO	Plunger	Ag	10(3) A	10.1 A
XCF3-J1Z1	1.05	3.74	10.2	0.40	Solder	CO	Plain lever	Ag	10(3) A	10.1 A
XCF3-S1Z1	1.1	3.92	15.6	0.61	Solder	CO	Roller lever	Ag	10(3) A	10.1 A

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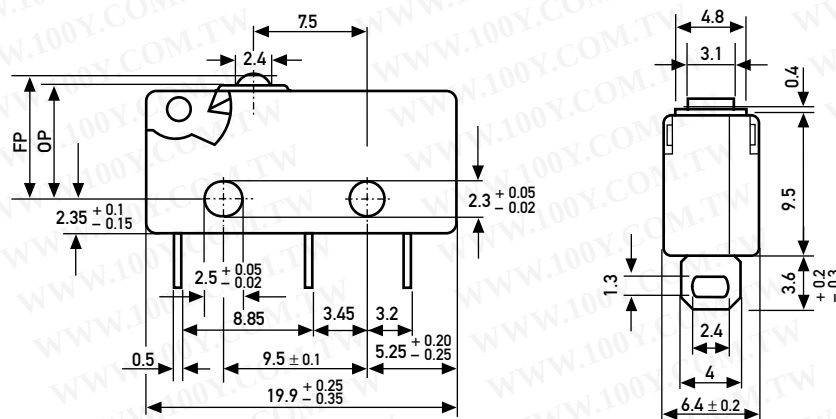
Specifications

Housing	Melamine-Formaldehyd, Thermosetting
Plunger	POM for T85, PBT for T125, PPS for T150
Mechanism	Snap-action system with stainless steel tension spring
Functions	Change-over, NO, NC
Contacts	Fine silver (Ag) or 10 µm Gold (Au), microprofile
Terminals	Solder, faston and various PCB terminals (side of housing or side of lid, as well as 1/10" o lin pitch)
Temperature range °C	Between -40°C and +85°C (special version up to 140°C)
Mechanical life	up to 5-10 ⁷ cycles (sinusoidal actuation)
Protection	Enclosure IP40
Mounting	Side mounting through mounting holes
Actuators	Stainless steel, PA66-GF35
Contact Carrier	CuZn or CuSn

Circuit diagram



Dimensions



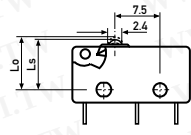
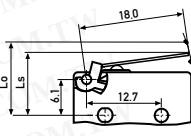
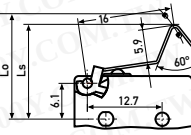
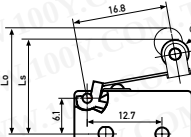
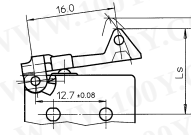
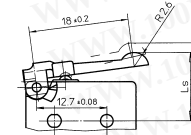
FP = Free Position
OP = Operating Position

Recommended maximum electrical ratings

	Voltage (VAC)	Resistive load (A)	Motor load (A)	Approvals ENEC (A)		(VAC)	Approvals UL (A)	(VAC)	Motor load
XCF	250	10	3	10 (3)	1E4	250	10,1	125/250	¼ HP
XCG	250	6	2	6 (2)	5E4	250	5	250	-
XCK	250	5	3	5 (3)	1E4	250	5	250	-
XCC	250	3	1	3 (1)	5E4	250	2	250	-
XCH	250	1,5	0,3	1,5 (0,3)	5E4	250	1	250	-

Breaking capacities in the tables refer to silver contacts.

Operating Characteristics

Actuator	Reference	Actuating Force		Release Force		Free Position Maximum		Operating Position		Movement Differential Maximum		Total travelled position Maximum	
		(N)	(ozf)	(N)	(ozf)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
Plunger 	XCF..	3	10.70	0.5	1.78	8.8	0.34	8.4	0.33	0.1	0.003	7.7	0.303
	XCG..	1.7	6.07	0.3	1.07	8.8	0.34	8.4	0.33	0.1	0.003	7.7	0.303
	XCK..	1.2	4.28	0.2	0.71	8.8	0.34	8.4	0.33	0.1	0.003	7.7	0.303
	XCC..	0.6	2.14	0.1	3.57	8.8	0.34	8.4	0.33	0.1	0.003	7.7	0.303
	XCH..	0.35	1.24	0.07	0.24	8.8	0.34	8.4	0.33	0.1	0.003	7.7	0.303
-J1 Lever 	XCF..	1.05	3.74	0.16	0.57	12.2	0.48	10.2 ± 1.0	0.401 ± 0.039	0.6	0.023	8.4	0.33
	XCG..	0.6	2.14	0.08	0.28	12.2	0.48	10.2 ± 0.9	0.401 ± 0.035	0.5	0.019	8.5	0.337
	XCK..	0.42	1.49	0.056	0.19	12.2	0.48	10.3 ± 0.9	0.405 ± 0.035	0.5	0.019	8.7	0.342
	XCC..	0.22	0.78	0.025	0.08	12.2	0.48	10.3 ± 0.9	0.404 ± 0.035	0.4	0.015	8.7	0.342
	XCH..	0.13	0.46	0.02	0.07	12.2	0.48	10.4 ± 0.9	0.409 ± 0.035	0.4	0.015	8.8	0.346
Width of lever 4.0 mm/0.16 in													
-L1 Lever 	XCF..	1.1	3.92	0.17	0.6	17.6	0.69	15.6 ± 1.1	0.614 ± 0.043	0.6	0.023	14	0.551
	XCG..	0.7	2.49	0.09	0.32	17.6	0.69	15.6 ± 1.0	0.614 ± 0.039	0.5	0.019	14.1	0.555
	XCK..	0.43	1.53	0.058	0.2	17.6	0.69	15.7 ± 1.0	0.618 ± 0.039	0.4	0.015	14.3	0.562
	XCC..	0.23	0.82	0.026	0.09	17.6	0.69	15.7 ± 1.0	0.618 ± 0.039	0.4	0.015	14.3	0.562
	XCH..	0.14	0.49	0.021	0.07	17.6	0.69	15.8 ± 1.0	0.622 ± 0.039	0.4	0.015	14.4	0.566
Width of lever 4.0 mm/0.16 in													
-S1 Lever 	XCF..	1.1	3.92	0.17	0.6	17.6	0.69	15.6 ± 1.2	0.614 ± 0.047	0.6	0.023	14.1	0.555
	XCG..	0.7	2.49	0.09	0.32	17.6	0.69	15.6 ± 1.1	0.614 ± 0.043	0.5	0.019	14.2	0.559
	XCK..	0.43	1.53	0.058	0.2	17.6	0.69	15.7 ± 1.1	0.618 ± 0.043	0.4	0.015	14.4	0.566
	XCC..	0.23	0.82	0.026	0.09	17.6	0.69	15.7 ± 1.1	0.618 ± 0.043	0.4	0.015	14.4	0.566
	XCH..	0.14	0.49	0.021	0.07	17.6	0.69	15.8 ± 1.1	0.622 ± 0.043	0.4	0.015	14.5	0.57
Width of roller 4.0 mm/0.16 in, for high temperature use -T1 lever													
-P5 Lever 	XCF..	1.3	4.62	0.17	0.6	17.6	0.69	15.6 ± 1.1	0.614 ± 0.043	0.6	0.023	14	0.551
	XCG..	0.75	2.67	0.09	0.32	17.6	0.69	15.6 ± 1.0	0.614 ± 0.039	0.5	0.019	14.1	0.555
	XCK..	0.6	2.13	0.058	0.2	17.6	0.69	15.7 ± 1.0	0.618 ± 0.039	0.4	0.015	14.3	0.562
	XCC..	0.31	1.10	0.026	0.09	17.6	0.69	15.7 ± 1.1	0.618 ± 0.043	0.4	0.015	14.3	0.562
	XCH..	0.22	0.78	0.021	0.07	17.6	0.69	15.8 ± 1.0	0.622 ± 0.039	0.4	0.015	14.4	0.566
-P6 Lever 	XCF..	1.05	3.74	0.16	0.57	14.3	0.56	12.5 ± 1.1	0.49 ± 0.043	0.6	0.023	10.6	0.417
	XCG..	0.6	2.13	0.08	0.28	14.3	0.56	12.5 ± 1.0	0.49 ± 0.039	0.5	0.019	10.7	0.421
	XCK..	0.42	1.49	0.056	0.21	14.3	0.56	12.6 ± 1.0	0.5 ± 0.039	0.5	0.015	10.8	0.425
	XCC..	0.22	0.78	0.025	0.11	14.3	0.56	12.6 ± 1.0	0.5 ± 0.039	0.4	0.015	10.8	0.425
	XCH..	0.13	0.46	0.02	0.07	14.3	0.56	12.7 ± 1.0	0.5 ± 0.039	0.4	0.015	10.9	0.429

Ordering Reference

Actuating Characteristic	XCF	3 N	6,07 ozf
	XCG	1,7 N	10,70 ozf
	XCK	1,2 N	4,28 ozf
	XCC	0,6 N	2,14 ozf
	XCH	0,35 N	1,24 ozf
Circuits	No digit	Change-over	
	4	Normally closed (NC)	
	5	Normally open (NO)	
Terminals	3	Solder	
	4	Faston 2.8 × 0.5 mm DIN	
	5	Faston 2.8 × 0.5 mm IEC/AMP	
	8	PCB (straight)	
	9	PCB (1/10" pitch)	
	10	Side mounting PCB, Base side	
	11	Side mounting PCB, cover side	
Other terminals on special request.			
Version	No digit, Housing material MF, Europe up to 85°C, UL up to 90°C		
	V (High temperature 125°C), Housing material MF / Plunger PBT, Europe up to 125°C, UL up to 130°C		
	W (High temperature 140°C), Housing material MF / Plunger PPS, Europe up to 140°C, UL up to 150°C		
Contacts	No digit	Ag (silver)	
	-81	μ profile Au 10 μm	
Actuators	No digit	Plunger	
	-J1	Plain lever	18,0 mm (0.71 in)
	-J2	Plain lever	25,0 mm (0.98 in)
	-J5	Plain lever	40,0 mm (1.57 in)
	-S1	Roller lever	16,8 mm (0.66 in)
	-L1	Cam follower	16,0 mm (0.63 in)
	-P5	Plastic lever	16,0 mm (0.63 in)
	-P6	Plastic lever	18,0 mm (0.71 in)
Other actuators on special request.			

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