

XG

Snap-action Microswitches

Miniature

XG

Characteristics ■ wide range of forces and ratings
 ■ long mechanical and electrical life
 ■ solder, faston and PCB terminals

Rating 250 VAC, 26 A max.

Dimensions (mm) 27.8 × 15.9 × 10.3

Actuator ■ plunger
 ■ plain levers
 ■ roller levers
 ■ simulated roller levers

Approvals ENEC, UL, cUL, CSA



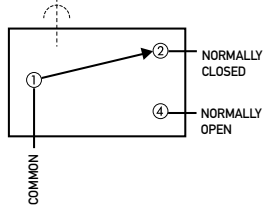
Preferred Range

Ordering Reference	Actuating Force		Operating pos.		Terminal	Circuit	Actuator	Contacts	Electrical rating	
	(N)	(ozf)	(mm)	(in)					ENEC	UL/CSA
XGG2-88Z1	3.20	11.43	14.7	0.57	Faston	CO	Plunger	Ag / AgNi10	16(6) A	15 A
XGG2-88-J23Z1	1.40	5.03	14.9	0.59	Faston	CO	Plain lever	Ag / AgNi10	16(6) A	15 A
XGG2-88-J26Z1	0.91	3.27	14.5	0.57	Faston	CO	Plain lever	Ag / AgNi10	16(6) A	15 A
XGG2-88-J27Z1	0.65	2.34	13.7	0.54	Faston	CO	Plain lever	Ag / AgNi10	16(6) A	15 A
XGG2-88-S20Z1	3.20	11.43	20.2	0.79	Faston	CO	Roller lever	Ag / AgNi10	16(6) A	15 A
XGG2-88-S21Z1	1.55	5.57	20.1	0.79	Faston	CO	Roller lever	Ag / AgNi10	16(6) A	15 A
XGG3-88Z1	3.20	11.43	14.7	0.57	Solder	CO	Plunger	Ag / AgNi10	16(6) A	15 A
XGG6-88Z1	3.20	11.43	14.7	0.57	Faston	CO	Plunger	Ag / AgNi10	16(6) A	15 A
XGC2-88Z1	0.80	2.86	14.7	0.57	Faston	CO	Plunger	Ag / AgNi10	12(6) A	10 A
XGC2-88-J23Z1	0.35	1.26	15.0	0.59	Faston	CO	Plain lever	Ag / AgNi10	12(6) A	10 A
XGC2-88-S20Z1	0.80	2.86	20.2	0.79	Faston	CO	Roller lever	Ag / AgNi10	12(6) A	10 A
XGC6-88Z1	0.80	2.86	14.7	0.57	Faston	CO	Plunger	Ag / AgNi10	12(6) A	10 A
XGK2-88Z1	1.50	5.36	14.7	0.57	Faston	CO	Plunger	Ag / AgNi10	12(6) A	12 A
XGK2-88-J26Z1	0.43	1.55	14.7	0.57	Faston	CO	Plain lever	Ag / AgNi10	12(6) A	12 A
XGK2-88-S21Z1	0.71	2.55	20.2	0.80	Faston	CO	Roller lever	Ag / AgNi10	12(6) A	12 A
XGK3-88Z1	1.50	5.36	14.7	0.57	Solder	CO	Plunger	Ag / AgNi10	12(6) A	12 A
XGK6-88Z1	1.50	5.36	14.7	0.57	Faston	CO	Plunger	Ag / AgNi10	12(6) A	12 A
XG02-88Z1	1.20	4.29	14.5	0.57	Faston	CO	Plunger	Ag / AgNi10	16(6) A	15 A
XG02-88-J27Z1	0.25	0.90	13.6	0.54	Faston	CO	Plain lever	Ag / AgNi10	16(6) A	15 A
XG02-88-S20Z1	1.20	4.29	20.1	0.79	Faston	CO	Roller lever	Ag / AgNi10	16(6) A	15 A
XG06-88Z1	1.20	4.29	14.5	0.57	Faston	CO	Plunger	Ag / AgNi10	16(6) A	15 A

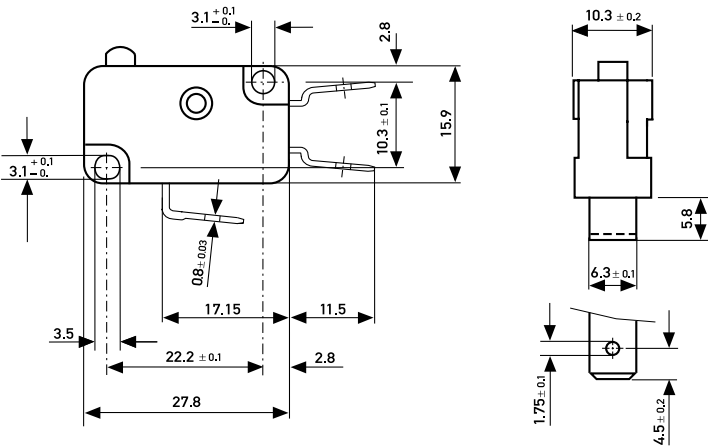
Specifications

Housing	Melamine-Formaldehyd. Thermosetting
Plunger	POM for T85, PBT for T125, PPS for T150
Mechanism	Snap-action, single pole beryllium bronze blade mechanisme with wiping contacts
Functions	Change-over, normally-closed (except XGG and XGK) or normally-open
Contacts	Fine silver (Ag), silver nickel (AgNi10), gold-plated (Au), silver cadmium oxide (AgCdO)
Terminals	Solder, faston, screw, PCB and side mounting PCB terminals. RAST 5 terminals (5.0 mm pitch)
Temperature range °C	-40° C to +150° C
Mechanical life	2.5 · 10 ⁵ cycles minimum, 50 · 10 ⁶ cycles maximum (Actuation: sinusoidal and maximum up to 80% of the overtravel)
Protection	Enclosure IP40
Mounting	Side mounting via mounting holes
Actuators	Stainless steel

Circuit diagram



Dimensions



Recommended maximum electrical ratings

Voltage (VAC)	Approvals ENEC	UL	(VAC)	Voltage (VAC)	Approvals ENEC	UL	(VAC)	
XGG..-88	250	16 (6) 5E4	15 A	125/250	XGT..-86	250	26 (10) 25E3 25A	125/250
XGA..-88	250	16 (6) 5E4	15 A	125/250	XGD..-86	250	22 (6) 5E4 21A	125/250
XGM..-88	250	16 (6) 5E4	15 A	125/250	XGA..-86	250	20 (8) 5E4 15A	125/250
XGO..-88	250	16 (6) 5E4	15 A	125/250	XGM..-86	250	20 (8) 5E4 15A	125/250
XGB..-88	250	12 (6) 5E4	12 A	125/250	XGO..-86	250	20 (8) 5E4 15A	125/250
XGC..-88	250	12 (6) 5E4	10 A	125/250	XGA..-86	400	10 (6) 5E4	-
XGH..-88	250	12 (6) 5E4	10 A	125/250	XGG..-86	400	10 (6) 5E4	-
XGK..-88	250	12 (6) 5E4	12 A	125/250	XGM..-86	400	10 (6) 5E4	-
XG....-88	400	3 (2) 5E4			XGO..-86	400	10 (6) 5E4	-

Type coding key for standard products

Basic type	XGG..	3.2 N	11.43 ozf	Example: XG	4	2	A	-88	J20	Z1
	XGA..	3.2 N	11.43 ozf							
	XGM..	2.0 N	7.14 ozf							
	XGO..	1.2 N	4.29 ozf							
	XGK..	1.5 N	5.36 ozf							
	XGB..	1.5 N	5.36 ozf							
	XGC..	0.8 N	2.86 ozf							
	XGH..	0.45 N	1.61 ozf							
	XGD..	1.7 N	6.07 ozf							
	XGT..	3.2 N	11.43 ozf							
Circuit	No symbol, change-over									
4	Normally closed (NC)									
5	Normally open (NO)									
Terminals	2	Faston	6.3 × 0.8							
	3	Solder	1.7 × 3.2							
	4	Faston	1 × 2.8 × 0.5 DIN							
	5	Faston	1 × 2.8 × 0.5							
	6	Faston	4.8 × 0.5							
	7	Screw								
	8	Faston	1 × 2.8 × 0.8 DIN							
	9	Faston	1 × 2.8 × 0.8							
	10	Faston	4.8 × 0.8							
	11	Faston	2 × 2.8 × 0.8							
	12	Short solder	∅ 2.3							
	13	Print bent (lid)								
	14	Print bent (base)								
	15	Rast 5	6.3 × 0.8							
	19	Short solder	∅ 1.7							
Other types of terminals are available on request										
Version	ENEC		UL		Number of operations at rated load					
	No symbol, T85		T90		Europe	UL				
A	T85		T90		50.000	6.000				
W	T150		T150		50.000	6.000				
AW	T150		T150		50.000	100.000				
B	T85		T90		10.000	6.000				
V	T125		T130		50.000	6.000				
AV	T125		T130		50.000	100.000				
C	T85		T90		25.000	6.000				
Contacts	-88	Ag / AgNi10								
	-81	Gold-plated 4 µm (Au) on Ag								
	-86	Ag / Ag CdO								
Actuators	No symbol, plunger									
	J20 ¹⁾	J40 ²⁾	Plain lever		13.5 mm					
	J22 ¹⁾	J42 ²⁾	Plain lever		24.0 mm					
	J23 ¹⁾	J43 ²⁾	Plain lever		27.8 mm					
	J27 ¹⁾	J47 ²⁾	Plain lever		60.0 mm					
	M20 ¹⁾	M40 ²⁾	Plain lever formed		14.7 mm					
	L20 ¹⁾	L40 ²⁾	Cam follower		12.8 mm					
	L21 ¹⁾	L41 ²⁾	Cam follower		26.2 mm					
	S20 ¹⁾	S40 ²⁾	Roller lever		12.8 mm					
	T20 ¹⁾	T40 ²⁾	Roller lever, 150° C version		12.8 mm					
Other actuators available on request										
¹⁾ Lever distance 8.2 (0.32) for lever position –.20, lever position (-J20, L20, S20, M20)										
²⁾ Lever distance 14.0 (0.55) for lever position –.40, lever position (-J40, L40, S40, M40)										
Approvals	No symbol, ENEC									
	Z1	UL, CSA								