

DG SUB-SUBMINIATURE SWITCH

DG sub-subminiature switch

Extremely small dimensions – only 12.8 × 5.8 × 6.5 mm.

Breaking capacity ranges from small switching currents and voltages to low-voltage applications up to 3 A 125 V AC.

- Available with or without auxiliary actuator
- Use on circuit boards with connections to the left or right and standing
- High mechanical operating life, depending on model > 1,000,000 operations



Technical specifications

Series	DG ①
Contact configuration	S.P.D.T.
Contact gap	< 3 mm
Switching voltage max.	125 VAC
Switching current max.	3 A AC
Operating voltage max.	75 cN oder 140 cN without auxiliary actuator
Total travel	0.7 mm without auxiliary actuator
Mechanical life	> 1 × 10 ⁶ operations
Electrical life (max. load)	see table on page 35
Ambient temperature	-25°C to +85°C

Materials

Base	PPS (UL 94V-0)
Cover	PBT (UL 94V-0)
Actuator	PBT (UL 94V-0)
Auxiliary actuator	Stainless steel
Terminals	CuZn striped silver-plated
Contacts DG 1	AgNi
DG 2	AgNi, gal. Au
Approvals	us
Degree of protection	IP40
Switch interior	

Circuitry ③

Model		Code
S.P.D.T.		3

Terminal type ⑤

Model		Code
Solder terminal, straight		B1
PCB terminal, RH side		B2
PCB terminal, LH side		B3

Generation of order code (example)
The order code consists of 5 parameters:

①	②	③	④	⑤
Series	Electrical rating	Circuitry	Terminal type	Auxiliary actuator
DG = sub-sub-miniature switch	1 = 3 A, 125 VAC 2 A, 30 VDC	3 = S.P.D.T.	B1 = PCB terminal, straight	AA = without auxiliary actuator

- Not every configurable variant is available for order. Please contact us.
- The final two digits of article numbers on commercial documents refer to the index of the respective drawing.

Electrical rating and operating life ②

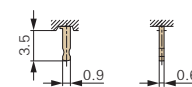
Electrical rating according to UL and CSA	Operating life		
	Nominal load UL and CSA	mechanical	Code
3 A, 125 VAC 2 A, 30 VDC	6,000	1 × 10 ⁶	1
0.05 A, 30 VDC	6,000	1 × 10 ⁶	2

Auxiliary actuator ④

Model	Type	Operating force max.(cN)	Max. pretravel (mm)	Min. overtravel (mm)	Differential travel max. (mm)	Max. rest position (mm)	Operating point (mm)	Code
Without auxiliary actuator	DG 1.2 B	140	0.5	0.2	0.1	5.9	5.4 ± 0.2	AA
	DG 2 C	75	0.5	0.2	0.1	5.9	5.4 ± 0.2	
Auxiliary actuator, straight	DG 1.2 B	45	1.8	0.55	0.5	9.4	6.8 + 0.8/-0.4	LA
	DG 2 C	30	1.8	0.55	0.5	9.4	6.8 + 0.8/-0.4	
Auxiliary actuator roller	DG 1.2 B	60	1.5	0.55	0.5	13.9	12.4 ± 0.5	RA
	DG 2 C	35	1.5	0.55	0.5	13.9	12.4 ± 0.5	

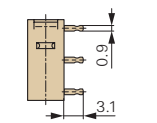
Terminals

Solder terminal

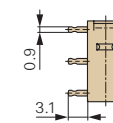


Dimensions in mm

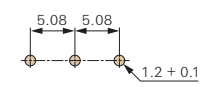
PCB terminal RH side



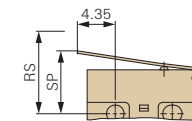
PCB terminal LH side



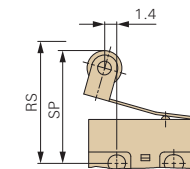
Drilling pattern



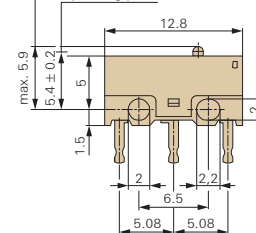
Auxiliary actuator



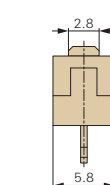
Dimensions in mm



Rest position



Operating point



Dimensions in mm