Subminiature — Sealed **DC Series**



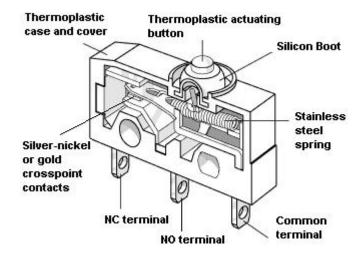
Features

1. Enclosed switch complying with IP 6K7

4. Rated for currents up to 10 amp at 250VAC

3. Models available for operating temperatures up to 120°C

2. Silicon-free version available



5. Range of auxiliary actuators available (can also be retrofitted)

- 6. Various contact materials available, depending on application
- 7. Mechanical life: min. 1 x10⁶ operations
- 8. Wide variety of connection options

	cal Ratings	UL1054 Rating	Electrical Life at Rated Load		
Switch Series	EN61058 Rating		According to EN (Min. Operations)	According to UL (Min. Operations)	
DC1	6A, 250V~	5A, 125/250VAC; 1A, 48VDC	10,000	6,000	
DC2	10(1.5)A, 250V~	10.1A, 125/250VAC; 1/4HP, 125VAC	10,000	6,000	
DC3	0.1A, 250V~	0.1A, 125/250VAC	50,000	100,000	
DC4	3A, 250V~	3A, 125/250VAC	50,000	6,000	

Electrical Specificat	ions	Material Specification	Material Specifications		
Temperature Rating	-40° to +85°C /+120°C (without wire leads) -40° to +85°C / +105°C (with wire leads)	Case: Actuator:	PET / PBT POM (785), PBT (7120)		
Flammability Rating UL94V-O (PET, PBT) UL94HB (POM)		Auxiliary Actuator:	Stainless Steel or Plastic		
		Terminals:	Silver-Plated Copper-Zinc		
		Contacts:	Silver Alloy (DC3 — Gold Crosspoint)		

PBT = Polybutyleneterephthalate • PET = Polyethyleneterephthalate • POM = Polyacetal. Specifications subject to change without notice.

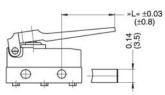


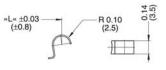


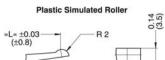
Subminiature — Sealed **DC Series**

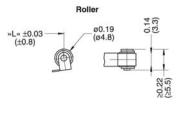
Auxiliary Actuators inches (mm)

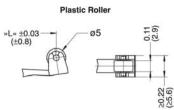
Plastic Straight (85 C Rated)











Actuator Specifications

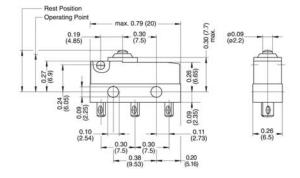
		Maxim Operating (cN)	Force		mum fravel s (mm)	Opera Poi inches	nt	Minimum Over-Travel	Max. Mo Differ inches	ential	Max. Rest Position	Actuation
Actuator Code	Switch Type	DC1, DC3, DC4	DC2	DC1, DC3, DC4	DC2	DC1, DC3, DC4	DC2	inches (mm)	DC1, DC3, DC4	DC2	inches (mm)	Length inches (mm)
AA		200	340	0.04	0.04	0.33±0.01	0.33±0.01	0.02	0.004	0.004	0.37	
	Lend)			(1.0)	(1.0)	(8.4±0.3)	(8.4±0.3)	(0.6)	(0.10)	(0.10)	(9.3)	_
LB	15mg	80	150	0.18	0.20	0.42±0.05	0.42±0.06	0.06	0.02	0.03	0.55	0.189
	Eard			(4.5)	(5.0)	(10.7±1.3)	(10.7±1.6)	(1.5)	(0.5)	(0.7)	(14.0)	(4.8)
LC	15	70	120	0.20	0.22	0.44±0.06	0.44±0.07	0.06	0.02	0.04	0.59	0.276
	Tened			(5.0)	(5.5)	(11.1±1.5)	(11.1±1.8)	(1.5)	(0.6)	(1.0)	(15.0)	(7.0)
LD	2					forces	and travel avail	able upon reques	st			1.654 (42.0)
SB		90	160	0.18	0.20	0.63±0.05	0.63±0.06	0.06	0.02	0.03	0.75	0.098
00	E d	00	100	(4.5)	(5.0)	(16.0±1.3)	(16.0 ± 1.6)	(1.5)	(0.5)	(0.7)	(19.0)	(2.5)
SC		80	130	0.20	0.22	0.65±0.06	0.65±0.07	0.06	0.02	0.04	0.79	0.185
00	2 2	00	100	(5.0)	(5.5)	(16.4±1.5)	(16.4±1.8)	(1.5)	(0.6)	(1.0)	(20.0)	(4.7)
SD	6			A. 1997		forces	and travel avail	able upon reques			, ,	1.563 (39.7)
RB	0	90	160	0.18	0.20	0.62±0.05	0.62±0.06	0.06	0.02	0.03	0,75	0.098
1049810	Lend		1.000	(4.5)	(5.0)	(15.8±1.3)	(15.8±1.6)	(1.5)	(0.5)	(0.7)	(19.0)	(2.5)
RC	0	80	130	0.20	0.22	0.64±0.06	0.64±0.07	0.06	0.02	0.04	0.79	0.185
	Con al			(5.0)	(5.5)	(16.2±1.5)	(16.2±1.8)	(1.5)	(0.6)	(1.0)	(20.0)	(4.7)
RD	1					forces	and travel ava	lable upon reque	st			1.563
14/17	tered	00		0.40	0.40	0.44.0.00	0.44.0.00	0.00	0.00	0.00	0.50	(39.7)
WB	15m	68	115	0.18	0.18	0.44±0.06	0.44±0.06	0.08	0.02	0.02	0.59	0.276
14/0	الشبقا	50	05	(4.5)	(4.5)	(11.1±1.5)	(11.1±1.5)	(2.0)	(0.6)	(0.6)	(15.0)	(7.0)
WC	0mg	50	85	0.24	0.24	0.48±0.07	0.48±0.07	0.12	0.03	0.03	0.67	0.551
1.00	القسقا	70	105	(6.0)	(6.0)	(12.2±1.8)	(12.2±1.8)	(3.0)	(0.8)	(0.8)	(17.0)	(14.0)
VB	Des	73	125	0.18	0.18	0.47±0.06	0.47±0.06	0.08	0.02	0.02	0.59	0.220
-	and a			(4.5)	(4.5)	(11.9±1.4)	(11.9±1.4)	(2.0)	(0.6)	(0.6)	(15.0)	(5.6)
ZB	15	73	125	.018	0.18	0.63±0.06	0.63±0.06	0.06	0.02	0.02	0.75	0.205
				(4.5)	(4.5)	(16.0±1.4)	(16.0±1.4)	(1.5)	(0.6)	(0.6)	(19.0)	(5.2)

Specifications subject to change without notice.

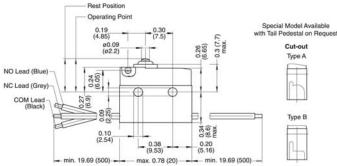


Subminiature — Sealed **DC** Series

Dimensions inches (mm)



Model with Connecting Leads



Ordering Information

Serie	es/Prefix	
Code	UL Rating	EN 61058 Rating
1	5A,125/250VAC 1A 48VDC	6A, 250V-
2	10.1A, 125/250VAC 1/4HP, 125VAC	10(1.5)A, 250V~
3	0.1A, 125/250VAC 0.1A 30VDC**	0.1A, 250V~
44	3A, 250VAC 1A 48VDC	3A, 250V-

Contact Configuration							
+105°	/120°C Operating Temp	+85°C Operating Temp					
Code		Code					
Α	SPST NO	E	SPST NO				
в	SPST NC	F	SPST NC				
C	SPDT	G	SPDT				

* 85°C versions use plastic levers ** 30VDC UL rating applies only to 120C version

Notes:

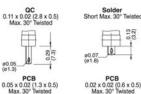
- Notes: Wire leads 500mm min. (approximately 20° long) 1. Only available with terminal configuration 1. 2. +85°C rated only. 3. Only available with DC1, DC3 and DC4. 4. Rating code 4 only as lead-version leads 0.5mm². 5. Wire versions only rated to +105°C. 6. Only available with terminal configuration 3 or 4.

Code	Terminal Type inches (mm)	Notes
Α	Short Solder	1
В	0.02" (0.5") Leads (No UL)	5, 9
С	0.03" (0.75") Leads (No UL)	5
н	0.05 x 0.02 (1.3 x 0.5) PCB	1
к	0.02 x 0.02 (0.6 x 0.5) PCB	1,7
L	0.11 x 0.02 (2.8 x 0.5) QC	1
N	Without Leads (Type B)	6
Р	Without Leads (Type A)	6
Q	Without Leads (No Cut-Out)	8
S	Welding	1
Т	Leads, 20 AWG	3, 11
U	Leads, 22AWG	9, 11
	Non-European Versions	
D	Leads 18 AWG (UL Only)	5, 8, 10
E	Leads 16 AWG (UL Only)	5
M	Leads 20 AWG (UL Only)	3,5

7. Only available with terminal configuration 1, 6, 7, 8 or 9,

Only available with terminal configuration 1,
Only available with DC3 and DC4,
Not available with DC2.
Not available in North America.

Terminal Options inches (mm)





PCB 0.02 x 0.02 (0.6 x 0.5) BH Side with L continue D



Þ



0.30

PCB 0.02 x 0.02 //

0.27

Drilling Pattern for PCB Terminals 0.05 x 0.02 (1.3 x 0.5)

0.06 (1.6)

PCB .02 (0.6 x 0.5)

0.30

0.30

0.20

0.14

PCB 0.02 x 0.02 (.06 x 0.5) LH Side while contine 7 0.02 x 0.02 5.08)



.11 (80 9)

1000		Code	Actuation Length inches (mm)			
Code	Actuator Type	A	в	С	D	
AA	Button only	-	-	-	-	
L	Lever	-	0.189 (4.8)	0.276 (7.0)	1.654 (42.0)	
R	Roller	-	0.098 (2.5)	0.185 (4.7)	1.563 (39.7)	
S	Simulated Roller		0.098 (2.5)	0.185 (4.7)	1.563 (39.7)	
V^2	Plastic Sim. Roller	-	0.220 (5.6)	-	-	
W^2	Plastic Straight	-	0.276 (7.0)	0.551 (14.0)	-	
Z ²	Plastic with Roller	-	0.205 (5.2)	-	-	

Code Terminal Configuration 1 30° Twisted 3 Leads on Actuator Side 4 Leads on Opposite Side from Actuator 5 Leads Attached to Underside 6 PCB Terminals Right-hand Side 7 PCB Terminals Left-hand Side 8 PCB Terminals Right-hand Side with Location Pins

9 PCB Terminals Left-hand Side with Location Pins

Contact

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The manufacturer accepts no liability for errors or non-availability, and reserves the right to change specifications without prior notice.

Technical data relates to product specifications only. Features may differ from those described. Only drawings combined with product specifications shall be deemed binding



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	G	
		<u>3 L</u>
nm)	Notes	
	1	Code

0.14 (3.5)	0.27
Drilling Patter for PCB Termin with Location P 0.05 x 0.02 (0.6 x	n als ins
(0.08 (02.15) (0.05 (01.3) (7.5) (0.38 (9.53) (9.53	0. (2. 0.30 (7.5)

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