Subminiature — Sealed

DC Series



Thermoplastic Thermoplastic actuating case and cover button Silicon Boot **Stainless** steel Silver-nickel spring or gold crosspoint contacts **NC terminal** Common terminal NO terminal

Features

- 1. Enclosed switch complying with IP 6K7
- 2. Silicon-free version available
- 3. Models available for operating temperatures up to 120°C
- 4. Rated for currents up to 10 amp at 250VAC

- 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

Electri	Electrical Ratings						
			Electrical Life at Rated Load				
Switch Series	EN61058 Rating	UL1054 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 Specifications	S	Material Specifications	
Temperature Rating	-40° to +85°C /+120°C (without wire leads)	Case:	PET / PBT
remperature Rating	-40° to +85°C / +105°C (with wire leads)	Actuator:	POM (T85), PBT (T120)
Flammability Rating	UL94V-O (<i>PET, PBT</i>) UL94HB (<i>POM</i>)	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.





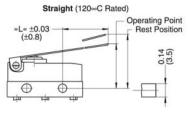


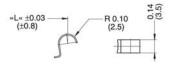


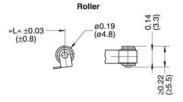
Subminiature — Sealed

DC Series

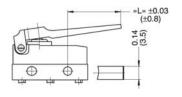
Auxiliary Actuators inches (mm)

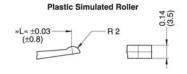


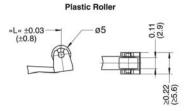












Actuator Specifications

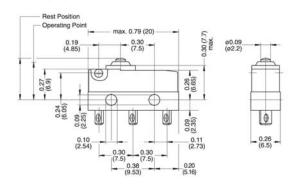
Switch Type		Maximum Operating Force (cN)		Maximum Pre-Travel inches (mm)		Operating Point inches (mm)				Max. Rest Position	Actuation Length
.,,,,	DC1, DC3, DC4	DC2	DC1, DC3, DC4	DC2	DC1, DC3, DC4	DC2	inches (mm)	DC1, DC3, DC4	DC2	inches (mm)	inches (mm)
-	200	340	0.04	0.04	0.33±0.01	0.33±0.01	0.02	0.004	0.004	0.37	22 — 2
لعبقا			(1.0)	(1.0)	(8.4±0.3)	(8.4±0.3)	(0.6)	(0.10)	(0.10)	(9.3)	(<u>—</u>)
UF-	80	150	0.18	0.20	0.42±0.05	0.42±0.06	0.06	0.02	0.03	0.55	0.189
Te el			(4.5)	(5.0)	(10.7 ± 1.3)	(10.7±1.6)	(1.5)	(0.5)	(0.7)	(14.0)	(4.8)
U	70	120	0.20	0.22	0.44±0.06	0.44±0.07	0.06	0.02	0.04	0.59	0.276
لعسفا			(5.0)	(5.5)	(11.1±1.5)	(11.1±1.8)	(1.5)	(0.6)	(1.0)	(15.0)	(7.0)
					forces	and travel avail	able upon reques	t			1.654 (42.0)
	00	160	0.10	0.20	0.62.0.05	0.62.0.06	0.06	0.00	0.02	0.75	0.098
-	90	160									(2.5)
	90	120									0.185
6	80	130									(4.7)
			(5.0)	(5.5)	(10.4±1.5)	(10.4±1.0)	(1.5)	(0.0)	(1.0)	(20.0)	1.563
					forces	and travel avail	able upon reques	st			(39.7)
_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
			(4.5)	(5.0)	(15.8±1.3)	(15.8±1.6)	(1.5)	(0.5)	(0.7)	(19.0)	(2.5)
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
			(5.0)	(5.5)	(16.2±1.5)	(16.2±1.8)	(1.5)	(0.6)	(1.0)	(20.0)	(4.7)
					forces	and travel avai	ilable upon reque	st			1.563 (39.7)
	68	115	0.18	0.18	0.44+0.06	0.44+0.06	0.08	0.02	0.02	0.59	0.276
0 0	00	110									(7.0)
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	00	00									(14.0)
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(6.0) (6.0) (12.2±1.8) 73 125 0.18 0.18 0.47±0.06 (4.5) (4.5) (11.9±1.4) 73 125 0.18 0.18 0.63±0.06	(1.0) (1.0) (8.4±0.3) (8.4±0.3) 80 150 0.18 0.20 0.42±0.05 0.42±0.06 (4.5) (5.0) (10.7±1.3) (10.7±1.6) 70 120 0.20 0.22 0.44±0.06 0.44±0.07 (5.0) (5.5) (11.1±1.5) (11.1±1.8) forces and travel avail 90 160 0.18 0.20 0.63±0.05 0.63±0.06 (4.5) (5.0) (16.0±1.3) (16.0±1.6) 80 130 0.20 0.22 0.65±0.06 0.65±0.07 (5.0) (5.5) (16.4±1.5) (16.4±1.8) forces and travel avail 90 160 0.18 0.20 0.62±0.05 0.62±0.06 (4.5) (5.0) (15.8±1.3) (15.8±1.6) 80 130 0.20 0.22 0.64±0.06 0.64±0.07 (5.0) (5.5) (16.2±1.5) (16.2±1.8) forces and travel avail 68 115 0.18 0.18 0.44±0.06 0.44±0.06 (4.5) (4.5) (4.5) (11.1±1.5) (11.1±1.5) 73 125 0.18 0.18 0.47±0.06 0.47±0.06 (4.5) (4.5) (11.9±1.4) (11.9±1.4) 73 125 0.18 0.18 0.63±0.06 0.63±0.06	(1.0) (1.0) (8.4±0.3) (8.4±0.3) (0.6) 80 150 0.18 0.20 0.42±0.05 0.42±0.06 0.06 (4.5) (5.0) (10.7±1.3) (10.7±1.6) (1.5) 70 120 0.20 0.22 0.44±0.06 0.44±0.07 0.06 (5.0) (5.5) (11.1±1.5) 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0.64±0.06 0.64±0.07 0.06 0.02 0.04 (5.0) (5.5) (16.2±1.5) (16.2±1.8) (1.5) (0.6) (1.0) 80 130 0.20 0.22 0.64±0.06 0.64±0.07 0.06 0.08 0.02 0.02 (5.0) (5.5) (16.2±1.5) (16.2±1.8) (1.5) (0.6) (1.0)	(1.0) (1.0) (8.4±0.3) (8.4±0.3) (0.6) (0.10) (0.10) (9.3) 80 150 0.18 0.20 0.42±0.05 0.42±0.06 0.06 0.02 0.03 0.55 (4.5) (5.0) (10.7±1.3) (10.7±1.6) (1.5) (0.5) (0.7) (14.0) 70 120 0.20 0.22 0.44±0.06 0.44±0.07 0.06 0.02 0.04 0.59 (5.0) (5.5) (11.1±1.5) (11.1±1.8) (1.5) (0.6) (1.0) (15.0) Forces and travel available upon request 90 160 0.18 0.20 0.63±0.05 0.63±0.06 0.06 0.02 0.03 0.75 (4.5) (5.0) (16.0±1.3) (16.0±1.6) (1.5) (0.5) (0.7) (19.0) (19.0) (5.0) (5.5) (16.4±1.5) (16.4±1.8) (1.5) (0.6) (1.0) (20.0) Forces and travel available upon request 90 160 0.18 0.20 0.62±0.05 0.65±0.07 0.06 0.02 0.04 0.79 (5.0) (5.5) (16.4±1.5) (16.4±1.8) (1.5) (0.6) (1.0) (20.0) Forces and travel available upon request 90 160 0.18 0.20 0.62±0.05 0.62±0.06 0.06 0.02 0.03 0.75 (4.5) (5.0) (15.8±1.3) (15.8±1.6) 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Specifications subject to change without notice.

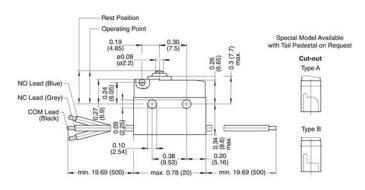
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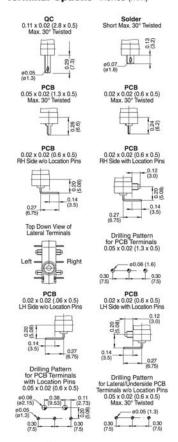
Dimensions inches (mm)



Model with Connecting Leads



Terminal Options inches (mm)



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 Tem			
Code	V 300 00-00 000	Code	1217 1212 127		
Α	SPST NO	E	SPST NO		
В	SPST NC	F	SPST NC		
С	SPDT	G	SPDT		

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

- 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.
- Terminal Type inches (mm) A Short Solde В 0.02° (0.5°) Leads (No UL) 5, 9 0.031 (0.751) Leads (No UL) 5 0.05 x 0.02 (1.3 x 0.5) PCB 0.02 x 0.02 (0.6 x 0.5) PCB 1, 7 0.11 x 0.02 (2.8 x 0.5) QC N Without Leads (Type B) 6 P Without Leads (Type A) 6 Q Without Leads (No Cut-Out) 8 Welding S Leads, 20 AWG 3, 11 Leads, 22AWG Non-European Versions D Leads 18 AWG (UL Only) 5. 8. 10 Leads 16 AWG (UL Only) 5

7	Only available with terminal configuration 1	6	7	8 00 0	ŕ

- Only available with terminal configuration 5.
 Only available with DC3 and DC4.
 Not available with DC2.

Leads 20 AWG (UL Only)

- 11. Not available in North America

	1	Code	e Actuation Length inches (mm)					
Code	Actuator Type	Α	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	1-0	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	PCR Terminals Left-hand Side with Location Pins

Contact

Call, fax or visit our Website for more information.

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Phone: 262,942,6500 Web: www.cherrycorp.com Email: cep_sales@zf.com Fax: 262.942.6566

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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