Subminiature — Sealed DC Series



Stainless steel Silver-nickel spring or gold crosspoint contacts **NC terminal** Common terminal NO terminal

Thermoplastic

case and cover

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)

Thermoplastic actuating

Silicon Boot

button

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

Switch Series			Electrical Life at Rated Load			
	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		
осз	0.1A, 250V~	0.1A, 125/250VAC	50,000	100,000		
DC4	3A, 250V~	3A, 125/250VAC	50,000	6,000		

Electrical Specifications	;	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 (<i>T85</i>), PBT (<i>T120</i>)	
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.





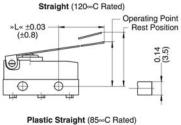


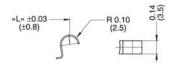


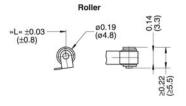
Subminiature — Sealed

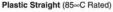
DC Series

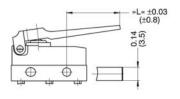
Auxiliary Actuators inches (mm)

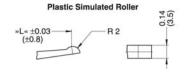


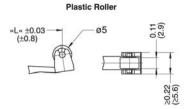












Actuator Specifications

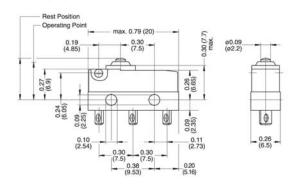
Actuator Code	Switch Type	Maximum Operating For (cN)	Force	Maxi Pre-1 inches	ravel	Poi	Operating Point inches (mm)		Max. Movement Differential inches (mm)		Max. Rest Position	Actuation Length
		DC1, DC3, DC4	DC2	DC1, DC3, DC4	DC2	DC1, DC3, DC4	DC2	Over-Travel inches (mm)	DC1, DC3, DC4	DC2	inches (mm)	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	88-8
	لقسقا			(1.0)	(1.0)	(8.4 ± 0.3)	(8.4±0.3)	(0.6)	(0.10)	(0.10)	(9.3)	-
LB		80	150	0.18	0.20	0.42±0.05	0.42±0.06	0.06	0.02	0.03	0.55	0.189
	لعبعا			(4.5)	(5.0)	(10.7±1.3)	(10.7±1.6)	(1.5)	(0.5)	(0.7)	(14.0)	(4.8)
LC	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
				(5.0)	(5.5)	(11.1±1.5)	(11.1±1.8)	(1.5)	(0.6)	(1.0)	(15.0)	(7.0)
LD						forces	and travel avail	able upon reques	t			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
OD		30	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	-	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				(0.0)	(5.5)		250 35 63	able upon reques		()	(20.0)	1.563
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
110				(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
	0 0			(5.0)	(5.5)	(16.2±1.5)	(16.2±1.8)	(1.5)	(0.6)	(1.0)	(20.0)	(4.7)
RD				(/	,,			ilable upon reque	-1-	()	(1.563 (39.7)
WB		68	115	0.18	0.18	0.44±0.06	0.44±0.06	0.08	0.02	0.02	0.59	0.276
				(4.5)	(4.5)	(11.1±1.5)	(11.1±1.5)	(2.0)	(0.6)	(0.6)	(15.0)	(7.0)
WC		50	85	0.24	0.24	0.48±0.07	0.48±0.07	0.12	0.03	0.03	0.67	0.551
				(6.0)	(6.0)	(12.2±1.8)	(12.2±1.8)	(3.0)	(0.8)	(0.8)	(17.0)	(14.0)
VB		73	125	0.18	0.18	0.47±0.06	0.47±0.06	0.08	0.02	0.02	0.59	0.220
				(4.5)	(4.5)	(11.9 ± 1.4)	(11.9 ± 1.4)	(2.0)	(0.6)	(0.6)	(15.0)	(5.6)
ZB	9	73	125	.018	0.18	0.63±0.06	0.63±0.06	0.06	0.02	0.02	0.75	0.205
	0			(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.

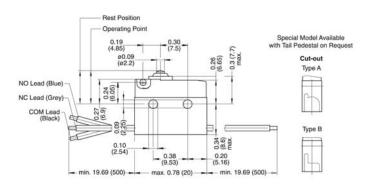
Subminiature — Sealed

DC Series

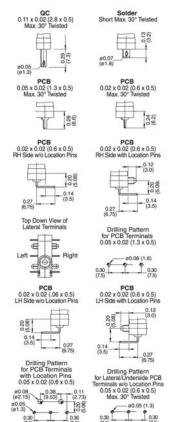
Dimensions inches (mm)



Model with Connecting Leads



Terminal Options inches (mm)



Ordering Information

Series/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 Conf	iguratio	n	
+105°	/120°C Operating Temp	+85°C Operating Temp		
Code	V 300 0-00 000	Code	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 C 0.031 (0.751) Leads (No UL) 5 H 0.05 x 0.02 (1.3 x 0.5) PCB 1 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 M Leads 20 AWG (UL Only)

3

- 7. Only available with terminal configuration 1, 6, 7, 8 or 9.
- Only available with terminal configuration 5.
 Only available with DC3 and DC4.
 Not available with DC2.

- 11. Not available in North America

	P i	Code	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)	-	-	
M ₂	Plastic Straight	1-1	0.276 (7.0)	0.551 (14.0)	-	
Z ²	Plastic with Roller	1	0.205 (5.2)	-	-	

\neg						
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

Call, fax or visit our Website for more information.

ZF Electronics Corporation 11200 88th Avenue Pleasant Prairie, WI 53158

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

© 2007 ZF Electronics Corporation Last Updated: 8/30/10

