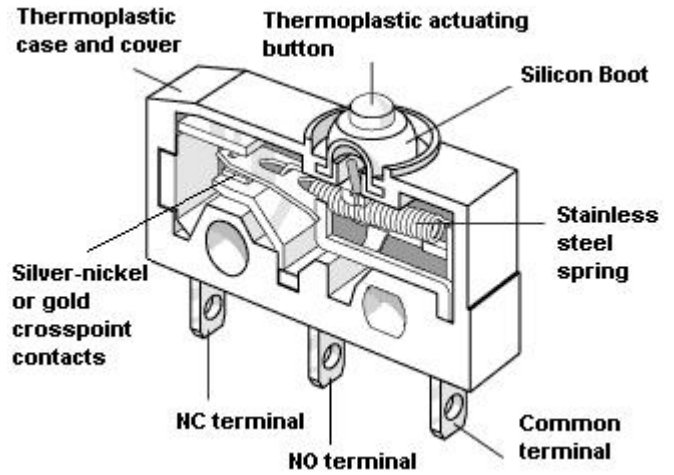


# Subminiature — Sealed DC Series



## 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.  $1 \times 10^6$  operations
8. Wide variety of connection options

Electrical Ratings				
Switch Series	EN61058 Rating	UL1054 Rating	Electrical Life at Rated Load	
			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

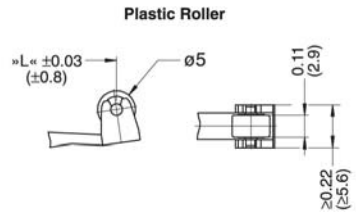
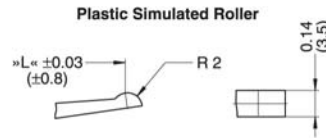
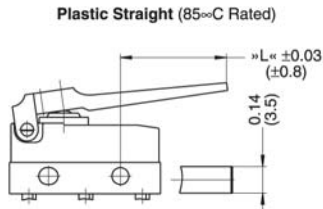
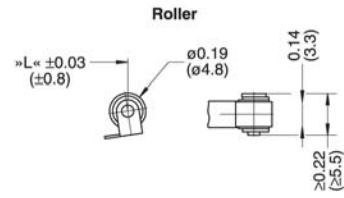
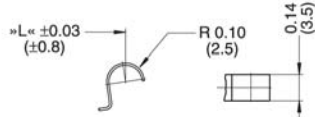
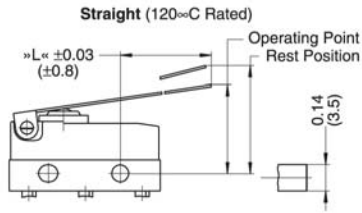
Electrical Specifications		Material Specifications	
<b>Temperature Rating</b>	-40° to +85°C / +120°C (without wire leads) -40° to +85°C / +105°C (with wire leads)	<b>Case:</b>	PET / PBT
<b>Flammability Rating</b>	UL94V-O (PET, PBT) UL94HB (POM)	<b>Actuator:</b>	POM (T85), PBT (T120)
		<b>Auxiliary Actuator:</b>	Stainless Steel or Plastic
		<b>Terminals:</b>	Silver-Plated Copper-Zinc
		<b>Contacts:</b>	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)



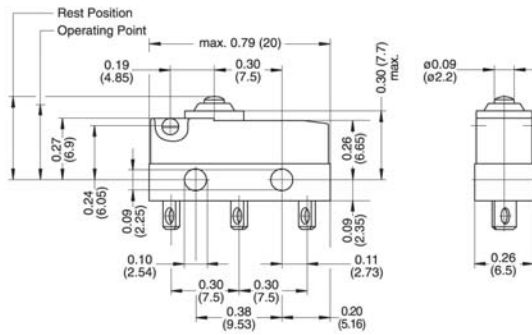
## Actuator Specifications

Actuator Code	Switch Type	Maximum Operating Force (cN)		Maximum Pre-Travel inches (mm)		Operating Point inches (mm)		Minimum Over-Travel inches (mm)	Max. Movement Differential inches (mm)		Max. Rest Position inches (mm)	Actuation Length inches (mm)
		DC1, DC3, DC4	DC2	DC1, DC3, DC4	DC2	DC1, DC3, DC4	DC2		DC1, DC3, DC4	DC2		
AA		200	340	0.04 (1.0)	0.04 (1.0)	0.33±0.01 (8.4±0.3)	0.33±0.01 (8.4±0.3)	0.02 (0.6)	0.004 (0.10)	0.004 (0.10)	0.37 (9.3)	—
LB		80	150	0.18 (4.5)	0.20 (5.0)	0.42±0.05 (10.7±1.3)	0.42±0.06 (10.7±1.6)	0.06 (1.5)	0.02 (0.5)	0.03 (0.7)	0.55 (14.0)	0.189 (4.8)
LC		70	120	0.20 (5.0)	0.22 (5.5)	0.44±0.06 (11.1±1.5)	0.44±0.07 (11.1±1.8)	0.06 (1.5)	0.02 (0.6)	0.04 (1.0)	0.59 (15.0)	0.276 (7.0)
LD		<i>forces and travel available upon request</i>										1.654 (42.0)
SB		90	160	0.18 (4.5)	0.20 (5.0)	0.63±0.05 (16.0±1.3)	0.63±0.06 (16.0±1.6)	0.06 (1.5)	0.02 (0.5)	0.03 (0.7)	0.75 (19.0)	0.098 (2.5)
SC		80	130	0.20 (5.0)	0.22 (5.5)	0.65±0.06 (16.4±1.5)	0.65±0.07 (16.4±1.8)	0.06 (1.5)	0.02 (0.6)	0.04 (1.0)	0.79 (20.0)	0.185 (4.7)
SD		<i>forces and travel available upon request</i>										1.563 (39.7)
RB		90	160	0.18 (4.5)	0.20 (5.0)	0.62±0.05 (15.8±1.3)	0.62±0.06 (15.8±1.6)	0.06 (1.5)	0.02 (0.5)	0.03 (0.7)	0.75 (19.0)	0.098 (2.5)
RC		80	130	0.20 (5.0)	0.22 (5.5)	0.64±0.06 (16.2±1.5)	0.64±0.07 (16.2±1.8)	0.06 (1.5)	0.02 (0.6)	0.04 (1.0)	0.79 (20.0)	0.185 (4.7)
RD		<i>forces and travel available upon request</i>										1.563 (39.7)
WB		68	115	0.18 (4.5)	0.18 (4.5)	0.44±0.06 (11.1±1.5)	0.44±0.06 (11.1±1.5)	0.08 (2.0)	0.02 (0.6)	0.02 (0.6)	0.59 (15.0)	0.276 (7.0)
WC		50	85	0.24 (6.0)	0.24 (6.0)	0.48±0.07 (12.2±1.8)	0.48±0.07 (12.2±1.8)	0.12 (3.0)	0.03 (0.8)	0.03 (0.8)	0.67 (17.0)	0.551 (14.0)
VB		73	125	0.18 (4.5)	0.18 (4.5)	0.47±0.06 (11.9±1.4)	0.47±0.06 (11.9±1.4)	0.08 (2.0)	0.02 (0.6)	0.02 (0.6)	0.59 (15.0)	0.220 (5.6)
ZB		73	125	0.18 (4.5)	0.18 (4.5)	0.63±0.06 (16.0±1.4)	0.63±0.06 (16.0±1.4)	0.06 (1.5)	0.02 (0.6)	0.02 (0.6)	0.75 (19.0)	0.205 (5.2)

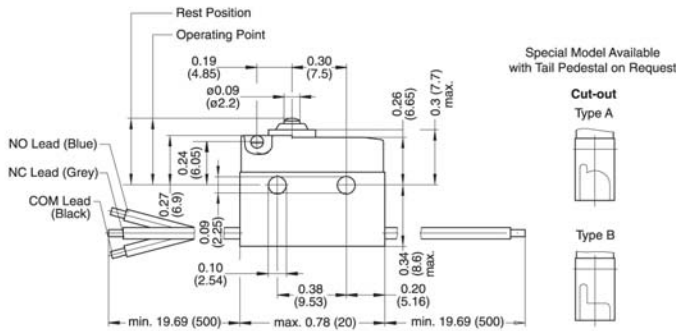
Specifications subject to change without notice.

# Subminiature — Sealed DC Series

## Dimensions inches (mm)



## Model with Connecting Leads

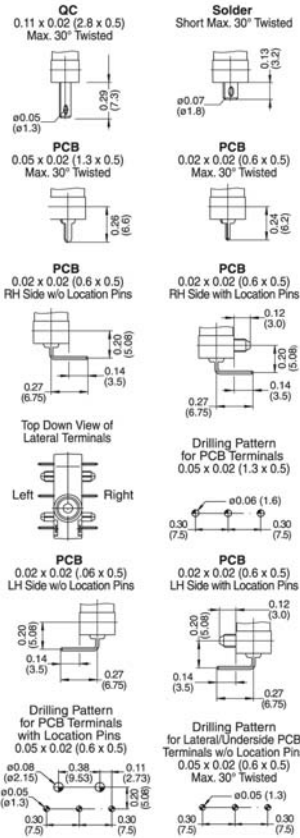


Special Model Available with Tail Pedestal on Request

Cut-out Type A

Type B

## Terminal Options inches (mm)



## Ordering Information

DC		3	
Series/Prefix			
Code	UL Rating	EN 61058 Rating	
1	5A, 125/250VAC 1A 48VDC	6A, 250V-	
2	10.1A, 125/250VAC 1/4HR, 125VAC	10(1.5)A, 250V-	
3	0.1A, 125/250VAC 0.1A 30VDC**	0.1A, 250V-	
4 <sup>1</sup>	3A, 250VAC 1A 48VDC	3A, 250V-	

Contact Configuration			
+105°/120°C Operating Temp		+85°C Operating Temp <sup>1</sup>	
Code		Code	
A	SPST NO	E	SPST NO
B	SPST NC	F	SPST NC
C	SPDT	G	SPDT

<sup>1</sup> 85°C versions use plastic levers  
<sup>\*\*</sup> 30VDC UL rating applies only to 120C version

### Notes:

Wire leads 500mm min. (approximately 20" long)

- Only available with terminal configuration 1.
- +85°C rated only.
- Only available with DC1, DC3 and DC4.
- Rating code 4 only as lead-version — leads 0.5mm<sup>3</sup>.
- Wire versions only rated to +105°C.
- Only available with terminal configuration 3 or 4.

G		B	
Code	Terminal Type	inches (mm)	Notes
A	Short Solder		1
B	0.02" (0.5') Leads (No UL)		5, 9
C	0.03" (0.75') Leads (No UL)		5
H	0.05 x 0.02 (1.3 x 0.5) PCB		1
K	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
P	Without Leads (Type A)		6
Q	Without Leads (No Cut-Out)		8
S	Welding		1
T	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

- 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.
- Not available in North America.

3		L		C			
Code	Actuator Type	Code A	Actuation Length inches (mm)				
			B	C	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 <sup>2</sup>	Plastic Sim. Roller	—	0.220 (5.6)	—	—		
W <sup>2</sup>	Plastic Straight	—	0.276 (7.0)	0.551 (14.0)	—		
Z <sup>2</sup>	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

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

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