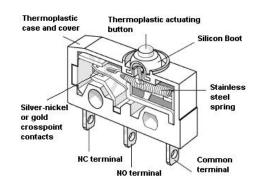
# **DC Series**





### **Features**

- Enclosed switch complying with IP 6K7
- Silicon-free version available
- Models available for operating temperatures up to 120°C
- Rated for currents up to 10.1 amps at 250VAC
- Range of auxiliary actuators available (can also be retrofitted)
- Various contact materials available, depending on application
- Mechanical life: min. 1 x10<sup>6</sup> operations
- Wide variety of terminal options

Electrical Ratings and Operating Life						
Switch Series	According	to EN61058-1	According to UL1054			
	Nominal Load	Operation cycles	Nominal Load	Operation cycles		
DC1	6A, 250V~	10,000	5A 125/250 VAC, 1A 48VDC	6,000		
DC2	10(1.5)A, 250 V~ 10,000		10.1A 125/250 VAC 1/4HP 125VAC	6,000		
DC3	0.1A 250 V~	50,000	0.1A 125/250 VAC	100,000		

Technical Specificat	tions	Material Specifications		
Temperature Rating: -40° to +85°C / +120°C (without wire leads)		Case:	PET / PBT	
remperature reating.	-40° to +85°C / +105°C (with wire leads)		PBT (UL 94 V-0) 120°C	
Degree of Protection:	IP67	Actuator button:	POM (UL 94 HB) 85°C	
		Contacts:	AuAgPt (Crosspoint), AgNi,	
RoHS Compliant:	Yes	Terminals:	CuZn (silver plated)	
UL File Number:	E314201	Auxiliary actuator:	Stainless steel or plastic	

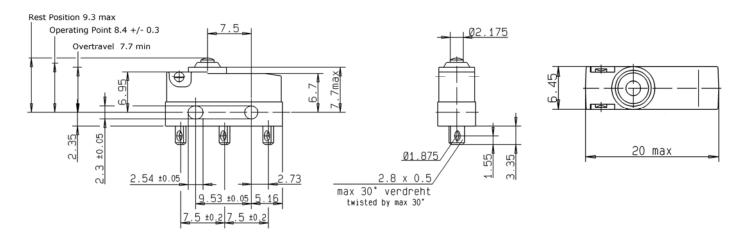


Specifications subject to change

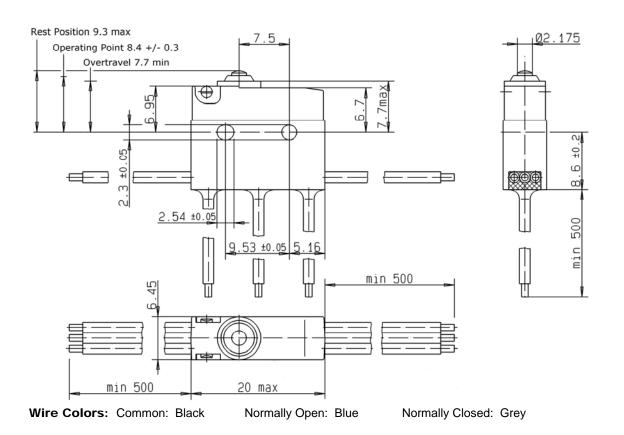


## **DC Series**

### **Dimensions - millimeter**

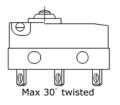


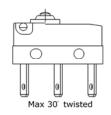
### **Models with Wire Leads**

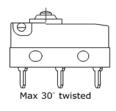


## **DC Series**

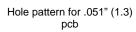
### **Terminal Options inches (mm)**

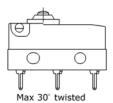


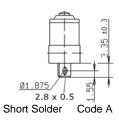


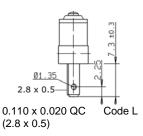


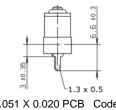
Ø 0.065 +/- 0.002 (0.165 + / - 0.05)



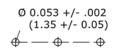




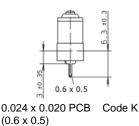


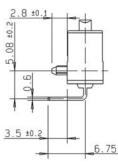


0.051 X 0.020 PCB Code H  $(1.3 \times 0.5)$ 

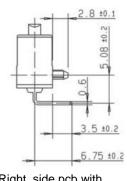


Hole pattern for .024" (0.6) pcb

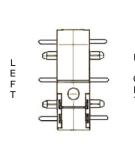




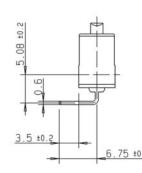




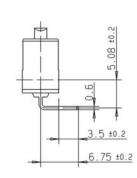
Right side pcb with location pins



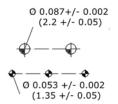
Top Down View of Lateral **Terminals** 



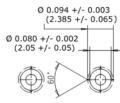
Left side pcb terminals



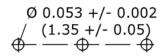
Right side pcb terminals



Hole pattern for pcb terminals with location pins



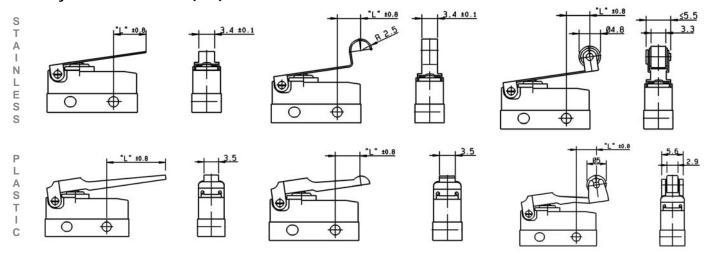
(Post Dimensions)



Hole pattern for pcb terminals without location pins

## **DC Series**

### **Auxiliary Actuators Inches (mm)**



### **Auxiliary Actuator Options**

Actuator	Material	Shana	Actuation	Actuator Part		Material	Chana	Actuation	Actuator Par
Code	Material	<u>Shape</u>	Length (mm)	number	Actuator Code	material	<u>Shape</u>	Length (mm)	number
-LB	Stainless	Straight	4.8	06141232	-RB	Stainless	Roller	2.5	07140260
-LC	Stainless	Straight	7.0	06141233	-RC	Stainless	Roller	4.7	07140261
-LD	Stainless	Straight	42.0	06141234	-RD	Stainless	Roller	39.7	07140262
-SB	Stainless	Simulated Roller	2.5	06141237	-WB	Plastic	Straight	7.0	06141247
-SC	Stainless	Simulated Roller	4.7	06141238	-WC	Plastic	Straight	14.0	06141253
-SD	Stainless	Simulated Roller	39.7	06141239	-ZB	Plastic	Roller	5.2	07140299
					-VB	Plastic	Simulated Roller	5.6	06141249

### **Commonly Stocked Distributor Items / Preferred Part Numbers**

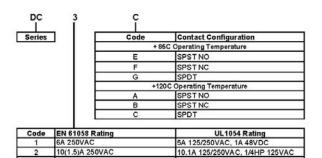
				Maximum Operating Force	Maximum	Operating Boint	Minimum	Max. Movement Differential	Actuation
Item Number	EN Rating	UL Rating	Terminals	Operating Force (cN)	Pretravel inches (mm)	Operating Point inches (mm)	Overtravel inches (mm)	inches (mm)	Length inches (mm)
B0404444	6A 260V ~	5A 125/250 VAC: 1A 48 VDC	0	` ′	` '	0.330 +/- 0.012	` ′		(
DC1CA1AA			Short Solder	200	0.039 / 1.0	8.4 +/- 0.3	0.024 / 0.6	.004 / 0.1	
DC1CA1LB	6A 260V ~	5A 125/250 VAC; 1A 48 VDC	Short Solder	80	0.177 / 4.5	0.421 +/- 0.5 10.7 +/- 1.3	0.06 / 1.5	.02 / 0.5	0.189 (4.8)
DC1CA1RB	6A 260V ~	5A 125/250 VAC; 1A 48 VDC	Short Solder	90	0.177 / 4.5	0.622 +/- 0.050 15.8 +/- 1.3	0.06 / 1.5	.02 / 0.5	0.088 (2.5)
DC2CA1AA	10(1.5A) 250V ~	10.1A 125/250VAC; 1/4HP 125VAC	Short Solder	340	0.039 / 1.0	0.330 +/- 0.012 8.4 +/- 0.3	0.024 / 0.6	.004 / 0.1	
DC2CA1LB	10(1.5A) 250V ~	10.1A 125/250VAC; 1/4HP 125VAC	Short Solder	150	0.197 / 5.0	0.421 +/- 0.50 10.7 +/- 1.3	0.06 / 1.5	0.03 / 0.7	0.189 (4.8)
DC2CA1RB	10(1.5A) 250V ~	10.1A 125/250VAC; 1/4HP 125VAC	Short Solder	160	0.197 / 5.0	0.622 +/- 0.050 15.8 +/- 1.3	0.06 / 1.5	0.03 / 0.7	0.088 (2.5)
DC3CA1AA	0.1A 250V ~	0.1A 125/250VAC, 0.1A 30VDC	Short Solder	200	0.039 / 1.0	0.330 +/- 0.012 8.4 +/- 0.3	0.024 / 0.6	.004 / 0.1	
DC3CA1LB	0.1A 250V ~	0.1A 125/250VAC, 0.1A 30VDC	Short Solder	80	0.177 / 4.5	0.421 +/- 0.50 10.7 +/- 1.3	0.06 / 1.5	0.03 / 0.7	0.189 (4.8)
DC3CM5RB	0.1A 250V ~	0.1A 125/250VAC, 0.1A 30VDC	20 awg wire	90	0.180 / 4.6	0.600 +/030 15.24 +/- 0.8	0.06 / 1.5	.02 / 0.5	0.088 (2.5)

<sup>\*\*</sup> Additional part numbers available. Contact factory for minimums and availability



## **DC Series**

#### **Ordering Information**



0.1A 125/250VAC 0.1A 30VDC

Code	Terminal Type	Notes
Α	Short Solder	1
В	0.02 <sup>2</sup> (0.5) <sup>2</sup> Leads (No UL)	4.8
C	0.032 (0.752 Leads (No UL)	4
Н	0.05 x 0.02 (1.2 x 0.5) PCB	1
K	0.02 x 0.02 (0.5 x 0.5) PCB	1.6
L	0.11 x 0.02 (2.8 x 0.5) QC	1
N	Without Leads (Type B )	5
Р	Without Leads (Type A )	5
Q	Without Leads (No Cut Out)	8
	Non-European Versions	
D	Leads 18 awg (UL approved)	4, 7, 9
E	Leads 16 awg (UL approved)	4
M	Leads 20 awg (UL approved)	3, 4

ñ	
Code	Actuator Type
AA	Spherical Head button
LB	Short straight lever 0.189 (4.8)
RB	Short roller lever 0.098 (2.5)
RC	Roller lever 0.185 (4.7)

- \* For additional actuator options contact factory
- \*\* Do not use plastic levers with 120°C rated switches

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

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

- Only available with terminal configuration 1
- +85C rated only

0.1A 250VAC

- Only available with DC1 and DC3
- Wire versions only rated to +105C Only available with terminal configuration 3 or 4
- Only available with terminal configuration 1, 6, 7, 8, 9
- Only available with terminal configuration 5
- Only available with DC3
- Not available with DC2

#### 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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Last Updated: 071211

