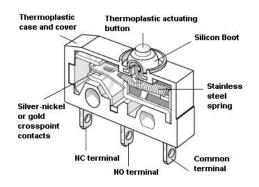
DC Series





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 x10⁶ operations
- Wide variety of terminal options

Electrical Ratings and Operating Life						
Switch	According t	to EN61058-1	According to UL1054			
Series	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		

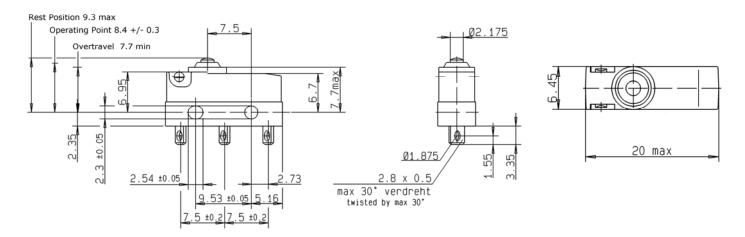


Specifications subject to change

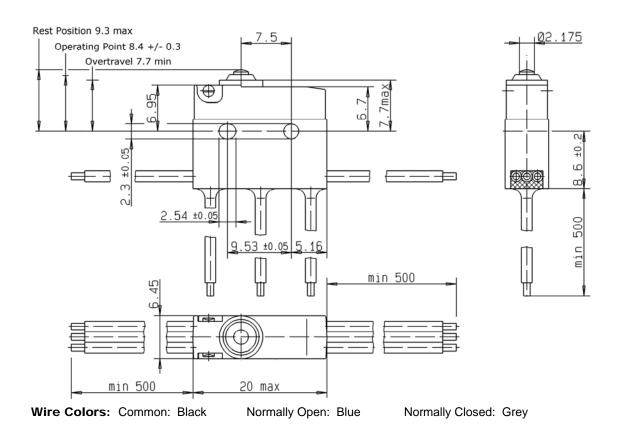


DC Series

Dimensions - millimeter

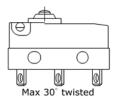


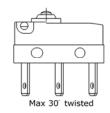
Models with Wire Leads

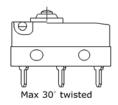


DC Series

Terminal Options inches (mm)

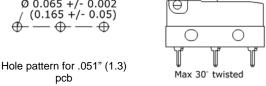




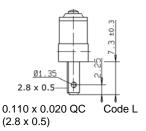


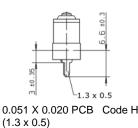
Ø 0.065 +/- 0.002 (0.165 + / - 0.05)

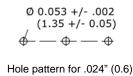
pcb

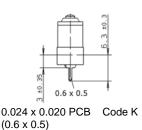


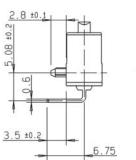
01.875 2.8 x 0.5 Short Solder Code A



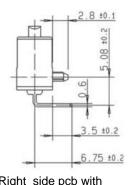




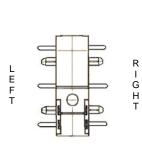




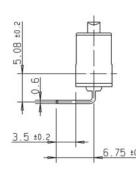




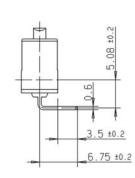
Right side pcb with location pins



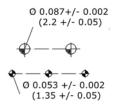
Top Down View of Lateral **Terminals**



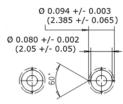
Left side pcb terminals



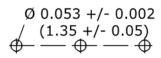
Right side pcb terminals



Hole pattern for pcb terminals with location pins



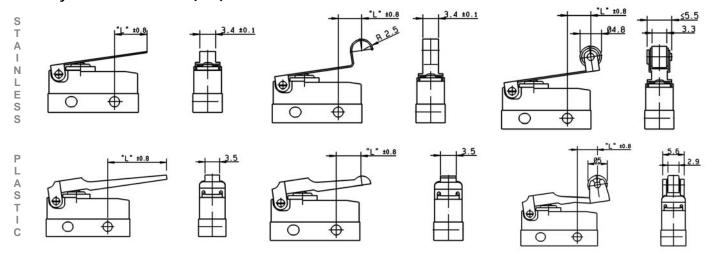
(Post Dimensions)



Hole pattern for pcb terminals without location pins

DC Series

Auxiliary Actuators Inches (mm)



Auxiliary Actuator Options

Actuator	Material	Chane	Actuation	Actuator Part	Antivotes Code	Material	Chana	Actuation	Actuator Part
Code		Shape	Length (mm)	number	Actuator Code		<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

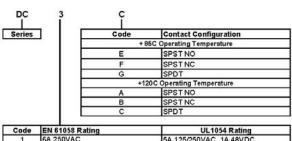
				Maximum Operating Force	Maximum Pretravel	Operating Point	Minimum Overtravel	Max. Movement Differential	Actuation
Item Number	EN Rating	UL Rating	Terminals	Operating Force (cN)	inches (mm)	inches (mm)	inches (mm)	inches (mm)	Length inches (mm)
DC1CA1AA	6A 260V ~	5A 125/250 VAC; 1A 48 VDC	Short Solder	200	0.039 / 1.0	0.330 +/- 0.012 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)

^{**} Additional part numbers available. Contact factory for minimums and availability



DC Series

Ordering Information



	G	3501		0.03 X 0.02 (1.2 X 0.3) FCD
	+	120C Operating Temperature	K	0.02 x 0.02 (0.5 x 0.5) PCB
- 1	A	SPST NO	L	0.11 x 0.02 (2.8 x 0.5) QC
- 1	В	SPSTNC	N	Without Leads (Type B)
- 1	С	SPDT	P	Without Leads (Type A)
- 25			Q	Without Leads (No Cut Out)
EN 61058 R	ating	UL1054 Rating		Non-European Versions
6A 250VAC		5A 125/250VAC, 1A 48VDC	D	Leads 18 awg (UL approved)
10(1.5)A 25	0VAC	10.1A 125/250VAC, 1/4HP 125VAC	E	Leads 16 awg (UL approved)
0.1A 250VA	C	0.1A 125/250VAC 0.1A 30VDC	M	Leads 20 awg (UL approved)
	6A 250VAC 10(1.5)A 25	The state of the s	+120C Operating Temperature A SPST NO B SPST NC C SPDT EN 61058 Rating GA 250VAC DO 10(1.5)A 250VAC 10(1.5)A 250VAC 10.1A 125/250VAC, 1/4HP 125VAC	+120C Operating Temperature K A SPST NO L B SPST NC N C SPDT P Q EN 61058 Rating UL1054 Rating 6A 250VAC 5A 125/250VAC, 1/4 HP 125VAC E 10(1.5)A 250VAC E

AA I	AA I					
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
- 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

Terminal Type

- Only available with terminal configuration 5
- Only available with DC3

Code

В

Short Solder

0.02² (0.5)² Leads (No UL)

0.032 (0.752 Leads (No UL)

Not available with DC2

Contact

Call, fax or visit our Website for more information

Notes

4.8

4 1,6

3.4

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.

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