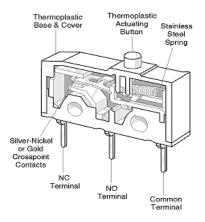
# Subminiature Snap Action Switch **DB Series**



#### Features

- Precision switch with high repeat accuracy
- Models available for operating temperatures up to 120°C
- Rated for currents up to 10A @ 250VAC
- Range of snap-on auxiliary actuators, two mounting positions



- Wide variety of terminal options available
- International approvals standard
- Mechanical life up to 15 x 10<sup>6</sup>
- RoHS Compliant

Electric						
Switch	According t	o EN61058-1	According t	Mechanical Life		
Series	Nominal Load	Operation cycles	Nominal Load	Operation cycles		
	6A, 250V~	10,000	5A 125/250 VAC	6,000	15 x 10 <sup>6</sup>	
DB1	0.1A 80 VDC	10,000	1A 48 VDC	15,000		
DB2	10(1.5)A, 250 V~	10,000	10.1A 125/250 VAC	6,000	10 x 10 <sup>6</sup>	
	0.1A 80 VDC	10,000	¼ HP 125 VAC	0,000	10 x 10	
DB3	0.1A 250 V~	50,000	0.1A 125/250 VAC	100,000	15 x 10 <sup>6</sup>	
	0.1A 80 VDC	50,000	0.17 123/230 770	100,000		
DB5*	44.050.1/	50.000	1A 125/250 VAC	6000	15 x 10 <sup>6</sup>	
	1A 250 V~	50,000	1A 48VDC	15,000		
DB6*	6A 250 VAC~	50,000	5A 125/250 VAC	6,000	15 x 10 <sup>6</sup>	
DB7*	10(1.5)A 250 V~	50,000	10.1A 125/250 VAC ¼ HP 125 VAC	6,000	10 x 10 <sup>6</sup>	

\*Only 85°C Rated

<b>Technical Specifications</b>		Material Specifications			
Temperature Rating:	-40°C to 85°C or -40°C to 120°C	Base:	PET (UL 94 V-0)		
remperature Nating.		Cover:	PBT (UL 94 V-0)		
Degree of Protection:	IP50	Actuator button:	PBT (UL 94 V-0) 120°C POM (UL 94 HB) 85°C		
Contact Gap	< 3mm (µ)	Contacts:	AuAgPt (Crosspoint), AgNi,		
Proof Tracking Index	PTI 175	Terminals:	CuZn (silver plated)		
JL File Number: E314201		Auxiliary actuator:	Stainless steel or plastic		

Specifications subject to change

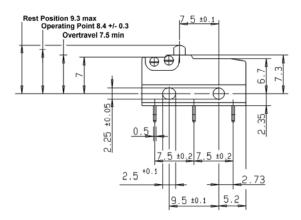


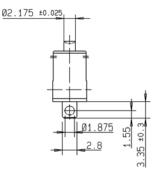


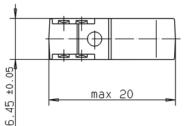
### Subminiature Snap Action Switch

## **DB** Series

#### **Dimensions - millimeter**







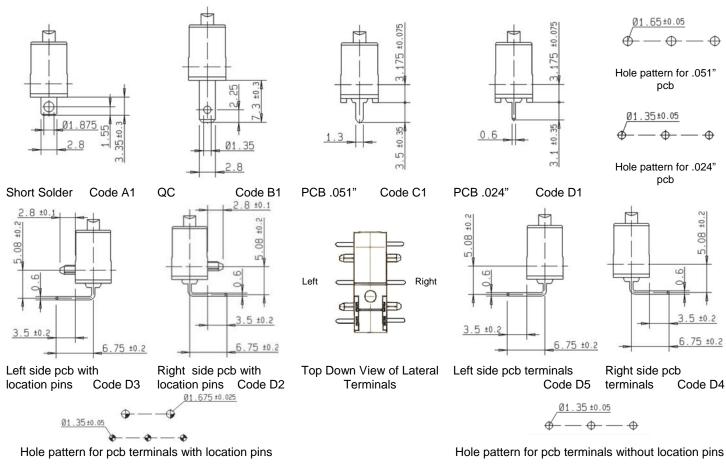
#### **Commonly Stocked Distributor Items / Preferred Part Numbers**

				Maximum Operating Force	Maximum Pretravel	Operating Point	Minimum Overtravel	Max. Movement Differential	Actuation Length
Item Number	EN Rating	UL Rating	Terminals	(cN)	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)
DB1CA1AA	6A 250VAC	5A 125/250 VAC	Short Solder	150	.039 (1.0)	.319 / .343 (8.1 / 8.7)	.024 (0.6)	.004 (0.1)	-
					1000 (110)	.370/.472			
DB1CA1LB	6A 250VAC	5A 125/250 VAC	Short Solder	60	.157 (4.0)	(9.4 / 12.0)	.079 (2.0)	.02 (0.5)	0.189 (4.8)
DB1CA1RB	6A 250VAC	5A 125/250 VAC	Short Solder	65	.157 (4.0)	.571 / .673 (14.5 / 17.1)	.079 (2.0)	.02 (0.5)	0.098 (2.5)
						.319 / .343			
DB1CB1AA	6A 250VAC	5A 125/250 VAC	2.8 x 0.5mm QC	150	.039 (1.0)	(8.1 / 8.7)	.024 (0.6)	.004 (0.1)	
DB1CB1LB	6A 250VAC	5A 125/250 VAC	2.8 x 0.5mm QC	60	.157 (4.0)	.370 / .472 (9.4 / 12.0)	.079 (2.0)	.02 (0.5)	0.189 (4.8)
DBICBILB	04 200 040	0A 120/200 VAC	.110" x .020"		.157 (4.0)	.579 / .697	.075 (2.0)	.02 (0.5)	0.105 (4.0)
DB1CB1RC	6A 250VAC	5A 125/250 VAC	2.8 x 0.5mm QC	55	0.177 (4.5)	(14.7 / 17.7)	.079 (2.0)	.024 (0.6)	0.185 (4.7)
			.051" x .020"			.319 / .343			
DB1CC1AA	6A 250VAC	5A 125/250 VAC	1.3 x 0.5mm PCB	150	.039 (1.0)	(8.1/8.7)	.024 (0.6)	.004 (0.1)	
DB2CA1AA	10(1.5)A 250 VAC	10.1A 125/250 VAC 1/4HP 125VAC	Short Solder	250	.039 (1.0)	.319 / .343 (8.1 / 8.7)	.024 (0.6)	.004 (0.1)	
	10(1.5)A 250 VAC					.358 / .484			
DB2CA1LB		10.1A 125/250 VAC 1/4HP 125VAC	Short Solder	100	.178 (4.5)	9.1 / 12.3	.059 (1.5)	.028 (0.7)	0.189 (4.8)
DB2CA1RC	10(1.5)A 250 VAC	10.1A 125/250 VAC 1/4HP 125VAC	Short Solder	95	0.197 (5.0)	.567 / .710 14.4 / 18.0	.059 (1.5)	.039 (1.0)	0.185 (4.7)
	10(1.5)A 250 VAC		.110" x .020"			.319/.343			
DB2CB1AA	10(1.5)A 250 VAC	10.1A 125/250 VAC 1/4HP 125VAC	2.8 x 0.5mm QC	250	.039 (1.0)	(8.1 / 8.7)	.024 (0.6)	.004 (0.1)	
	10(1.5)A 250 VAC		.110" x .020"			.567 / .710			
DB2CB1RC		10.1A 125/250 VAC 1/4HP 125VAC	2.8 x 0.5mm QC	95	0.197 (5.0)	14.4 / 18.0	.059 (1.5)	.039 (1.0)	0.185 (4.7)
DB2CC1AA	10(1.5)A 250 VAC	10.1A 125/250 VAC 1/4HP 125VAC	.051" x .020" 1.3 x 0.5mm PCB	250	.039 (1.0)	.319 / .343 (8.1 / 8.7)	.024 (0.6)	.004 (0.1)	
DDLOOIN		10.17 120200 010 11411 120010	1.0 x 0.0///// 00	200	.000 (1.0)	.319/.343	.024 (0.0)		
DB3CA1AA	0.1A 250VAC	0.1A 125/250 VAC	Short Solder	150	.039 (1.0)	(8.1 / 8.7)	.024 (0.6)	.004 (0.1)	
						.370/.472			
DB3CA1LB	0.1A 250VAC	0.1A 125/250 VAC	Short Solder	60	.157 (4.0)	(9.4 / 12.0)	.079 (2.0)	.02 (0.5)	0.189 (4.8)
DB3CB1AA	0.1A 250VAC	0.1A 125/250 VAC	.110" x .020" 2.8 x 0.5mm QC	150	.039 (1.0)	.319 / .343 (8.1 / 8.7)	.024 (0.6)	.004 (0.1)	
	5		.110" x .020"		1000 (110)	.370/.472			
DB3CB1LB	0.1A 250VAC	0.1A 125/250 VAC	2.8 x 0.5mm QC	60	.157 (4.0)	(9.4 / 12.0)	.079 (2.0)	.02 (0.5)	0.189 (4.8)
DB3CC1AA	0.1A 250VAC	0.1A 125/250 VAC	.051" x .020" 1.3 x 0.5mm PCB	150	.039 (1.0)	.319 / .343 (8.1 / 8.7)	.024 (0.6)	.004 (0.1)	

\*\* Additional part numbers available. Contact factory for minimums and availability

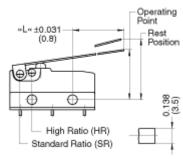


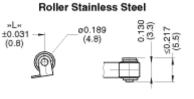
#### **Terminal Options**



#### **Auxiliary Actuators**



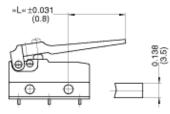




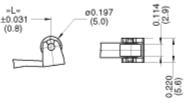
Simulated Roller Stainless Steel



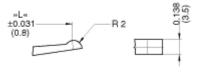






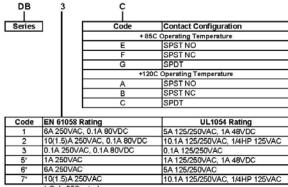


Simulated Roller Plastic





#### **Ordering Information**



\* Only 85C rated

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Code	Terminal Type
A1	Short Solder
B1	0.110 x 0.20 (2.8 x 0.5) QC Straight
C1	0.051 × 0.020 (1.3 × 0.5) PCB Straight
D1	0.024 × 0.020 (0.6 × 0.5) PCB Straight
D2	0.024 x 0.020 (0.6 x 0.5) PCB RH Side with location pins
D3	0.024 x 0.020 (0.6 x 0.5) PCB LH Side with location pins
D4	0.024 x 0.020 (0.6 x 0.5) PCB RH Side
D5	0.024 x 0.020 (0.6 x 0.5) PCB LH Side

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

 For additional actuator options contact factory

\*\* Do not use plastic levers with 120C rated switches

#### **Auxilliary Actuator Options**

Actuator			Actuator	Actuation	Actuator			Actuator	Actuation
Code	Shape	Material	Part Number	Length (mm)	Code	Shape	Material	Part Number	Length (mm)
LB/-MB	Straight	Stainless	06141232	4.8 / 7.0	-RB / -TB	Roller	Stainless	07140260	2.5 /4.7
LC/-MC	Straight	Stainless	06141233	7.0/9.4	-RC/-TC	Roller	Stainless	07140261	4.7 / 7.1
-LD / MD	Straight	Stainless	06141234	42 / 43.5	-RD/-TD	Roller	Stainless	07140262	39.7 / 41.2
-SB/-UB	Simulated Roller	Stainless	06141237	2.5/4.7	-WB/GB	Straight	Plastic	06141247	7.0/9.4
-SC/-UC	Simulated Roller	Stainless	06141238	4.7 / 7.1	-WC/-GC	Straight	Plastic	06141253	14.0 / 16.2
-SD/-UD	Simulated Roller	Stainless	06141239	39.7 / 41.2	-ZB/-QB	Roller	Plastic	07140299	5.2/7.3
					-VB/-HB	Simulated Roller	Plastic	06141249	5.6/7.9

**B1** 

#### 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: <u>www.cherrycorp.com</u> Email: <u>cep\_sales@zf.com</u> 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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