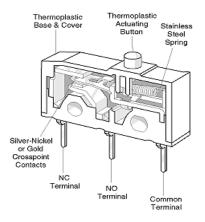
Subminiature Snap Action Switch **DB Series**



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 10⁶
- RoHS Compliant

Electric	al Ratings and O	perating Life			
Switch	According t	o EN61058-1	According t	o UL1054	Mechanical Life
Series	Nominal Load	Operation cycles	Nominal Load	Operation cycles	
554	6A, 250V~	10,000	5A 125/250 VAC	6,000	15 x 10 ⁶
DB1	0.1A 80 VDC	10,000	1A 48 VDC	15,000	10 × 10
	10(1.5)A, 250 V~	10,000	10.1A 125/250 VAC	6,000	10 x 10 ⁶
DB2	0.1A 80 VDC	10,000	¼ HP 125 VAC	0,000	10 x 10
002	0.1A 250 V~	50,000	0.1A 125/250 VAC	100,000	15 x 10 ⁶
DB3	0.1A 80 VDC	50,000	0.17 123/230 770	100,000	10 × 10
	44.050.1/	50.000	1A 125/250 VAC	6000	15 x 10 ⁶
DB5*	1A 250 V~	50,000	1A 48VDC	15,000	13 × 10
DB6*	6A 250 VAC~	50,000	5A 125/250 VAC	6,000	15 x 10 ^⁵
DB7*	10(1.5)A 250 V~	50,000	10.1A 125/250 VAC ¼ HP 125 VAC	6,000	10 x 10 ⁶

*Only 85°C Rated

Technical Specifications		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)
UL File Number:	E314201	Auxiliary actuator:	Stainless steel or plastic

Specifications subject to change

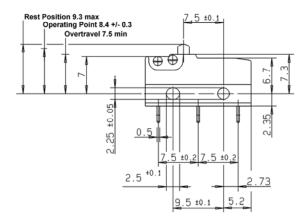


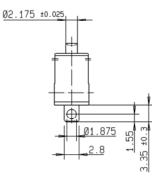


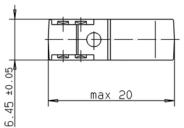
Subminiature Snap Action Switch

DB Series

Dimensions - millimeter







Commonly Stocked Distributor Items / Preferred Part Numbers

				Maximum			Minimum	Max. Movement	Actuation
				Operating Force	Maximum Pretravel	Operating Point	Overtravel	Differential	Length
Item Number	EN Rating	UL Rating	Terminals	(cN)	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)
						.318/.342			
DB1CA1AA	6A 250VAC	5A 125/250 VAC	Short Solder	150	.039 (1.0)	(8.1 / 8.7)	.024 (0.6)	.004 (0.1)	-
						.416 / .426			
DB1CA1LB	6A 250VAC	5A 125/250 VAC	Short Solder	60	.157 (4.0)	(10.57 / 10.83)	.079 (2.0)	.02 (0.5)	0.189 (4.8)
						.571 / .673			
DB1CA1RB	6A 250VAC	5A 125/250 VAC	Short Solder	65	.157 (4.0)	(14.5 / 17.1) .318 / .342	.079 (2.0)	.02 (0.5)	0.098 (2.5)
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)	
DBICBIAA	OA 200VAC	5A 125/250 VAC	2.8 x 0.5mm QC	150	.039 (1.0)	.416/.426	.024 (0.6)	.004 (0.1)	-
DB1CB1LB	6A 250VAC	5A 125/250 VAC	2.8 x 0.5mm QC	60	.157 (4.0)	(10.57 / 10.83)	.079 (2.0)	.02 (0.5)	0.189 (4.8)
DBIODILD		34 123/230 740	.110" x .020"		.107 (4.0)	.579/.697	.070 (2.0)	.02 (0.0)	0.103 (4.0)
DB1CB1RC	6A 250VAC	5A 125/250 VAC	2.8 x 0.5mm QC	55	0.177 (4.5)	(14.7 / 18.1)	.079 (2.0)	.024 (0.6)	0.185 (4.7)
			.051" x .020"			.318/.342			
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)	-
	10(1.5)A 250 VAC					.330 +/012			
DB2CA1AA	10(1.5)A 250 VAC	10.1A 125/250 VAC 1/4HP 125VAC	Short Solder	250	.039 (1.0)	(8.4 +/- 0.3)	.024 (0.6)	.004 (0.1)	
	10(1.5)A 250 VAC					.358 / .484			
DB2CA1LB	10(1.0)A 200 VAC	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)
	10(1.5)A 250 VAC					.567 / .710			
DB2CA1RC		10.1A 125/250 VAC 1/4HP 125VAC	Short Solder	95	0.197 (5.0)	14.4 / 18.0	.059 (1.5)	.039 (1.0)	0.185 (4.7)
DB2CB1AA	10(1.5)A 250 VAC		.110" x .020" 2.8 x 0.5mm QC	250	.039 (1.0)	.318 / .342 (8.1 / 8.7)	.024 (0.6)	.004 (0.1)	
DB2CB1AA	0.5	10.1A 125/250 VAC 1/4HP 125VAC	.110" x .020"	250	.039 (1.0)	.567 / .710	.024 (0.6)	.004 (0.1)	
DB2CB1RC	10(1.5)A 250 VAC	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)
DB20BTRO		10.14 123/230 740 11411 123740	.051" x .020"		0.137 (0.0)	.318/.342	.003 (1.0)	.003 (1.0)	0.185 (4.7)
DB2CC1AA	10(1.5)A 250 VAC	10.1A 125/250 VAC 1/4HP 125VAC	1.3 x 0.5mm PCB	250	.039 (1.0)	(8.1/8.7)	.024 (0.6)	.004 (0.1)	-
					1000 (110)	.330 +/012	.021 (0.0/	1001 (011)	
DB3CA1AA	0.1A 250VAC	0.1A 125/250 VAC	Short Solder	150	.039 (1.0)	(8.4 +/- 0.3)	.024 (0.6)	.004 (0.1)	-
						.416 / .426			
DB3CA1LB	0.1A 250VAC	0.1A 125/250 VAC	Short Solder	60	.157 (4.0)	(10.57 / 10.83)	.079 (2.0)	.02 (0.5)	0.189 (4.8)
			.110" x .020"			.318/.342			
DB3CB1AA	0.1A 250VAC	0.1A 125/250 VAC	2.8 x 0.5mm QC	150	.039 (1.0)	(8.1 / 8.7)	.024 (0.6)	.004 (0.1)	
			.110" x .020"			.416 / .426			1000 C
DB3CB1LB	0.1A 250VAC	0.1A 125/250 VAC	2.8 x 0.5mm QC	60	.157 (4.0)	(10.57 / 10.83)	.079 (2.0)	.02 (0.5)	0.189 (4.8)
		0.44.405/0503/400	.051" x .020"			.318/.342			
DB3CC1AA	0.1A 250VAC	0.1A 125/250 VAC	1.3 x 0.5mm PCB	150	.039 (1.0)	(8.1 / 8.7)	.024 (0.6)	.004 (0.1)	

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

Auxiliary Actuator Options Actuator Code Shape

Actuator Code	Shape
-LB / -MB	Straight
-LC / -MC	Straight
-LD / -MD	Straight
-SB/-UB	Simulated Roller
-SC/-UC	Simulated Roller
-SD/-UD	Simulated Roller

Actuator Code -RB / -TB -RC / -TC -RD / -TD Actuator Part number 07140260 07140261 07140262

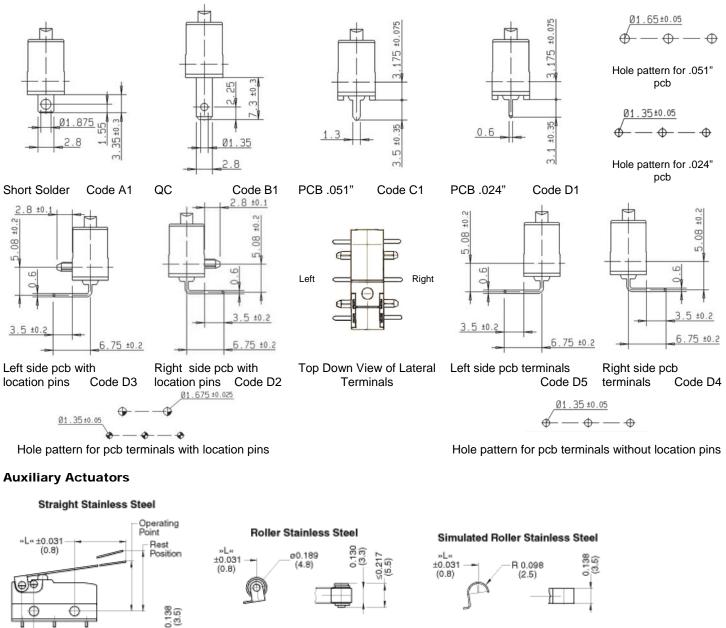
Shape Roller

Roller

Roller



Terminal Options



Roller Plastic

ø0.197 (5.0)

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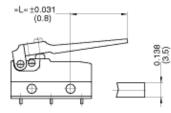
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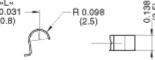
.»L∝ ±0.031

(0.8)

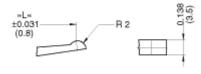
Straight Plastic

High Ratio (HR) Standard Ratio (SR)





Simulated Roller Plastic





Ordering Information

DB 	3	c I	
Series		Code	Contact Configuration
		+8	35C Operating Temperature
		E	SPSTNO
		F	SPST NC
		G	SPDT
		+12	20C Operating Temperature
		A	SPST NO
		В	SPST NC
		С	SPDT
Code	EN 61058	Rating	UL1054 Rating

Code	EN 61058 Rating	UL1054 Rating
1	6A 250VAC, 0.1A 80VDC	5A 125/250VAC, 1A 48VDC
2	10(1.5)A 250VAC, 0.1A 80VDC	10.1A 125/250VAC, 1/4HP 125VAC
3	0.1A 250VAC, 0.1A 80VDC	0.1A 125/250VAC
5*	1A 250VAC	1A 125/250VAC, 1A 48VDC
6*	6A 250VAC	5A 125/250VAC
7*	10(1.5)A 250VAC	10.1A 125/250VAC, 1/4HP 125VAC

Only 85C rated

Code	Terminal Type
A1	Short Solder
B1	0.110 x 0.20 (2.8 x 0.5) QC Straight
C1	0.051 x 0.020 (1.3 x 0.5) PCB Straight
D1	0.024 x 0.020 (0.6 x 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

Code	Actuator Type
AA	Spherical Head button
LB	Short straight lever 0.189 (4.8)
	tional actuator options imonly Stocked Items t factory

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

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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