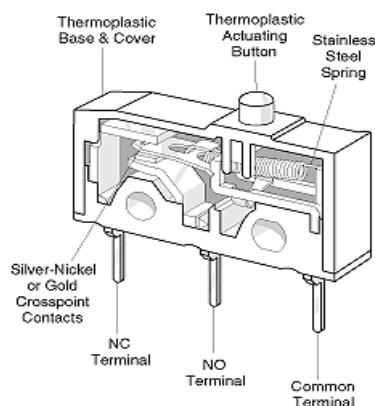


Subminiature Snap Action Switch

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 15×10^6
- RoHS Compliant

Electrical Ratings and Operating Life					
Switch Series	According to EN61058-1		According to UL1054		Mechanical Life
	Nominal Load	Operation cycles	Nominal Load	Operation cycles	
DB1	6A, 250V~	10,000	5A 125/250 VAC	6,000	15 x 10 ⁶
	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 ⁶
	0.1A 80 VDC	10,000	¼ HP 125 VAC		
DB3	0.1A 250 V~	50,000	0.1A 125/250 VAC	100,000	15 x 10 ⁶
	0.1A 80 VDC	50,000			
DB5*	1A 250 V~	50,000	1A 125/250 VAC	6000	15 x 10 ⁶
			1A 48VDC	15,000	
DB6*	6A 250 VAC~	50,000	5A 125/250 VAC	6,000	15 x 10 ⁶
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)
		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

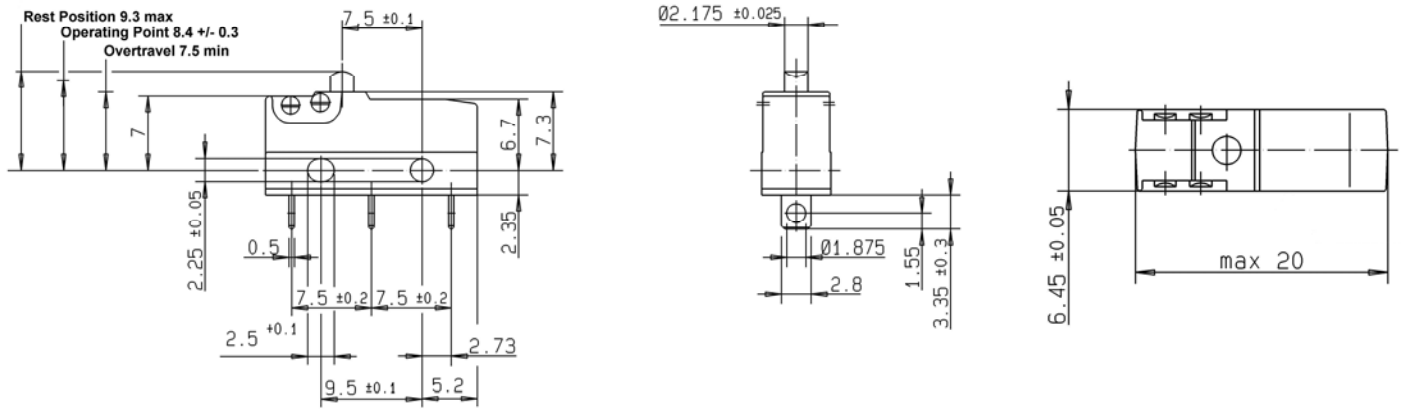
Specifications subject to change



Subminiature Snap Action Switch

DB Series

Dimensions - millimeter



Commonly Stocked Distributor Items / Preferred Part Numbers

Item Number	EN Rating	UL Rating	Terminals	Maximum Operating Force (cN)	Maximum Pretravel inches (mm)	Operating Point inches (mm)	Minimum Overtravel inches (mm)	Max. Movement Differential inches (mm)	Actuation Length inches (mm)
DB1CA1AA	6A 250VAC	5A 125/250 VAC	Short Solder	150	.039 (1.0)	.318 / .342 (8.1 / 8.7)	.024 (0.6)	.004 (0.1)	--
DB1CA1LB	6A 250VAC	5A 125/250 VAC	Short Solder	60	.157 (4.0)	.416 / .426 (10.57 / 10.83)	.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)
DB1CB1AA	6A 250VAC	5A 125/250 VAC	2.8 x 0.5mm QC	150	.039 (1.0)	.318 / .342 (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)	.416 / .426 (10.57 / 10.83)	.079 (2.0)	.02 (0.5)	0.189 (4.8)
DB1CB1RC	6A 250VAC	5A 125/250 VAC	.110" x .020" 2.8 x 0.5mm QC	55	0.177 (4.5)	.579 / .697 (14.7 / 18.1)	.079 (2.0)	.024 (0.6)	0.185 (4.7)
DB1CC1AA	6A 250VAC	5A 125/250 VAC	.061" x .020" 1.3 x 0.5mm PCB	150	.039 (1.0)	.318 / .342 (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)	.330 +/- .012 (8.4 +/- 0.3)	.024 (0.6)	.004 (0.1)	--
DB2CA1LB	10(1.5)A 250 VAC	10.1A 125/250 VAC 1/4HP 125VAC	Short Solder	100	.178 (4.5)	.358 / .484 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)
DB2CB1AA	10(1.5)A 250 VAC	10.1A 125/250 VAC 1/4HP 125VAC	.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)	--
DB2CB1RC	10(1.5)A 250 VAC	10.1A 125/250 VAC 1/4HP 125VAC	.110" x .020" 2.8 x 0.5mm QC	95	0.197 (5.0)	.567 / .710 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	.061" x .020" 1.3 x 0.5mm PCB	250	.039 (1.0)	.318 / .342 (8.1 / 8.7)	.024 (0.6)	.004 (0.1)	--
DB3CA1AA	0.1A 250VAC	0.1A 125/250 VAC	Short Solder	150	.039 (1.0)	.330 +/- .012 (8.4 +/- 0.3)	.024 (0.6)	.004 (0.1)	--
DB3CA1LB	0.1A 250VAC	0.1A 125/250 VAC	Short Solder	60	.157 (4.0)	.416 / .426 (10.57 / 10.83)	.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)	.318 / .342 (8.1 / 8.7)	.024 (0.6)	.004 (0.1)	--
DB3CB1LB	0.1A 250VAC	0.1A 125/250 VAC	.110" x .020" 2.8 x 0.5mm QC	60	.157 (4.0)	.416 / .426 (10.57 / 10.83)	.079 (2.0)	.02 (0.5)	0.189 (4.8)
DB3CC1AA	0.1A 250VAC	0.1A 125/250 VAC	.061" x .020" 1.3 x 0.5mm PCB	150	.039 (1.0)	.318 / .342 (8.1 / 8.7)	.024 (0.6)	.004 (0.1)	--

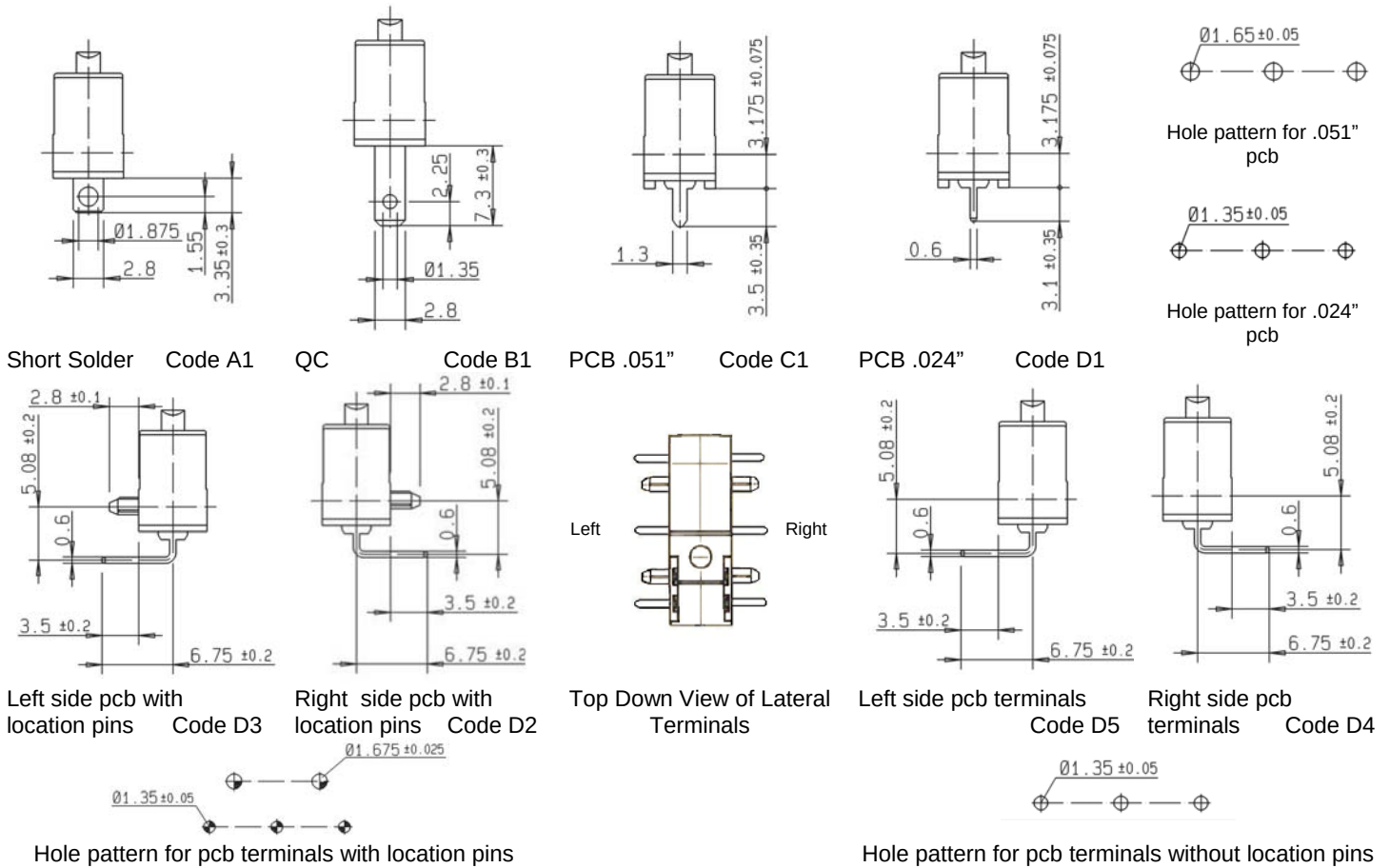
** Additional part numbers available. Contact factory for minimums and availability

Auxiliary Actuator Options

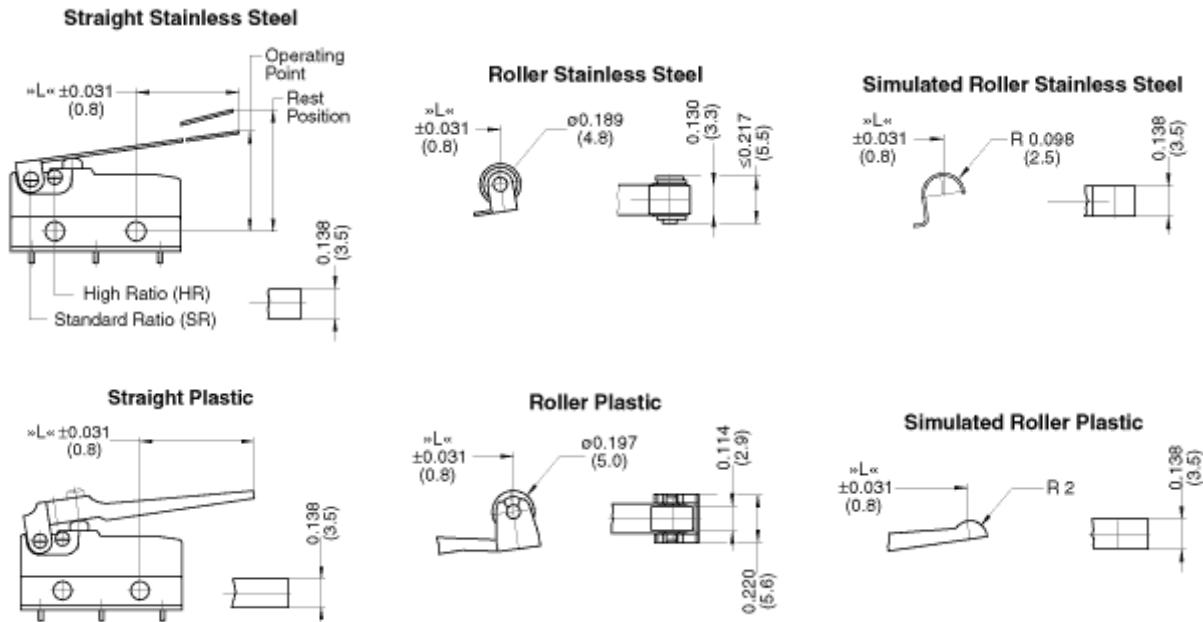
Actuator Code	Shape	Actuator Part number
-LB / -MB	Straight	06141232
-LC / -MC	Straight	06141233
-LD / -MD	Straight	06141234
-SB / -JB	Simulated Roller	06141237
-SC / -UC	Simulated Roller	06141238
-SD / -UD	Simulated Roller	06141239

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

Terminal Options



Auxiliary Actuators



Ordering Information

DB			3		C	
Series					Code	Contact Configuration
					+85C Operating Temperature	
					E	SPST NO
					F	SPST NC
					G	SPDT
					+120C Operating Temperature	
					A	SPST NO
					B	SPST NC
					C	SPDT

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

B1			
Code		Terminal Type	
A1		Short Solder	
B1		0.110 x 0.020 (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)	

* For additional actuator options see Commonly Stocked Items or contact factory

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

Contact

Call, fax or visit our Website for more information.

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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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