# **Subminiature Snap Switch**

## Single Pole

**DB** Series



#### **Features**

- Precision switch with high repeat accuracy
- Models available for operating temperature up to 120 <sup>o</sup>C
- Various contact materials available
- RoHS compliant

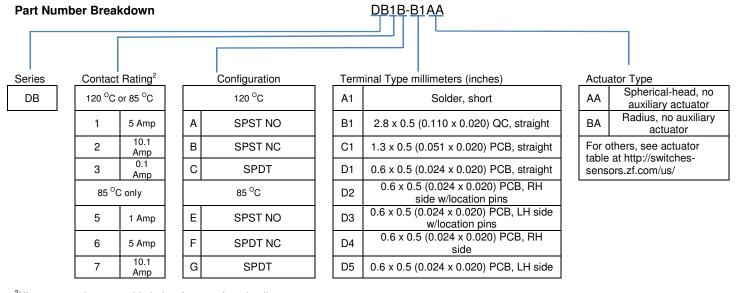
- Various aux actuators (can be retrofitted)
- Two mounting positions
- Mechanical life up to 15,000,000 operations

#### Standard Parts<sup>1</sup>

DB1C-A1AA	DB1C-A1RC	DB1C-B1RC	DB2C-A1MC	DB2C-C1AA	DB3C-B1AA	
DB1C-A1LB	DB1C-B1AA	DB1C-C1AA	DB2C-A1RC	DB3C-A1AA	DB3C-B1LB	
DB1C-A1LC	DB1C-B1LB	DB2C-A1AA	DB2C-B1AA	DB3C-A1LB	DB3C-B1LC	
DB1C-A1MC	DB1C-B1LC	DB2C-A1LB	DB2C-B1LC	DB3C-A1LC	DB3C-B1MC	
DB1C-A1RB	DB1C-B1MC	DB2C-A1LC	DB2C-B1RC	DB3C-A1RC	DB3C-B1RC	
					DB3C-C1AA	

<sup>&</sup>lt;sup>1</sup>The part number configuration matrix below provides details to the part numbers above.

For configurable part numbers that are not listed above, not listed in your region, or for custom part numbers, contact the factory or your distributor.



<sup>&</sup>lt;sup>2</sup>UL current rating; see table below for complete details

**Electrical Specifications – Contact Ratings** 

=:::		
Contact	EN61058	UL1054
1	6 A, 250 VAC; 0.1 A, 80 VDC	5 A, 125/250 VAC; 1 A, 48 VDC
2	10 (1.5) A, 250 VAC; 0.1 A, 80 VDC	10.1 A, 125/250 VAC; ¼ HP, 125 VAC
3	0.1 A, 250 VAC; 0.1 A, 80 VDC	0.1 A, 125/250 VAC; 0.1 A, 30 VDC
4	4 A, 250 VAC	4 A, 125/250 VAC; 1 A, 48 VDC
5	1 A, 250 VAC	1 A, 125/250 VAC; 1 A, 48 VDC
6	6 A, 250 VAC	5 A, 125/250 VAC
7	10 (1.5) A, 250 VAC	10.1 A, 125/250 VAC, ¼ HP, 125 VAC

UL file number E314201



**Mechanical Specifications** 

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Contact Gap		< 3 mm (μ)	
Operating Force			70 – 280 cN (model dependent, without actuator)
Total Travel (without actuator)			1.6 mm
Operating life			
Operation Cycles			
<u>Contact</u>	EN61058	<u>UL1054</u>	Mechanical Life
1	10,000	6,000	15,000,000
2	10,000	6,000	10,000,000
3	50,000	100,000	15,000,000
4	50,000	6,000	15,000,000
5	50,000	6,000	15,000,000
6	50,000	6,000	15,000,000
7	50,000	6,000	10,000,000

**Material Specifications** 

Base	PET (UL 94 V-0)
Cover	PBT (UL 94 V-0); PET (UL 94 V-0)
Actuator	PBT (UL 94 V-0) 120 °C, POM (UL 94 HB) 85 °C
Contacts	AgSnO <sub>2</sub> , AgNi, AuAgPt (Crosspoint)
Terminals	CuZn (silver-plated)
Auxiliary Actuator	Stainless Steel or plastic
Switching parameters	Complete chart available at http://switches-sensors.zf.com/us/

**Environmental Specifications** 

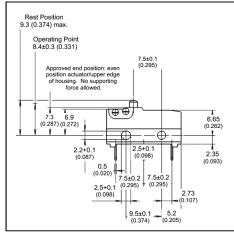
Ambient Temperature

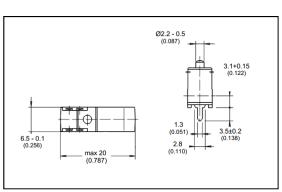
-40 °C to 85 °C/120 °C (-40 °F to 185 °F/248 °F)

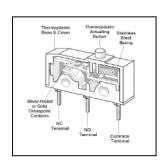
Ingress Protection

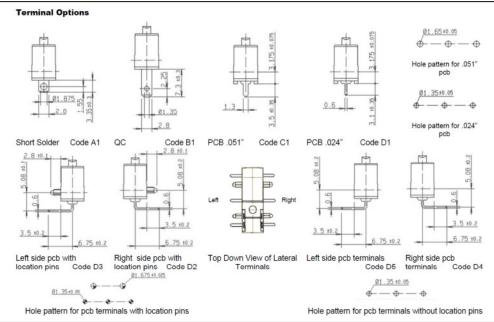
IP50

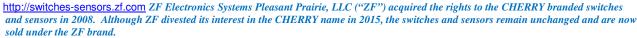
**Dimensions mm (inches)** 













### **Mouser Electronics**

**Authorized Distributor** 

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### **ZF Electronics**:

DB2C-A1LB DB1C-D4AA DB1C-C1AA DB2C-C1AA DB3C-C1AA DB1C-B1RC DB1C-B1RB DB2C-B1RC DB1C-D2AA DB2C-A1RC DB1C-A1LB DB1C-A1AA DB3C-A1AA DB3G-D2LC DB1C-B1AA DB3C-B1AA DB1C-B1LB DB3C-B1LB DB3C-B1LD DB2C-B1AA DB1C-D5AA DB1C-D5RC DB3C-B1SC DB1A-B1MC DB2A-B1AA DB2B-C1AA DB2B-B1AA DB1C-D1AA DB1A-C1AA DB3C-D2LC DB1C-A1RC DB3C-A1RC DB1C-B1MC DB3C-B1MC DB1C-A1MC DB3C-B1MC DB3C-B