# Sealed Subminiature Snap Switch

## Single Pole

DC Series



### Features

- ٠ Enclosed switch complying with IP6K7
- Models available for operating temperature up to 120 °C •
- Various contact materials available
- **RoHS** compliant
- Silicon-free version available •

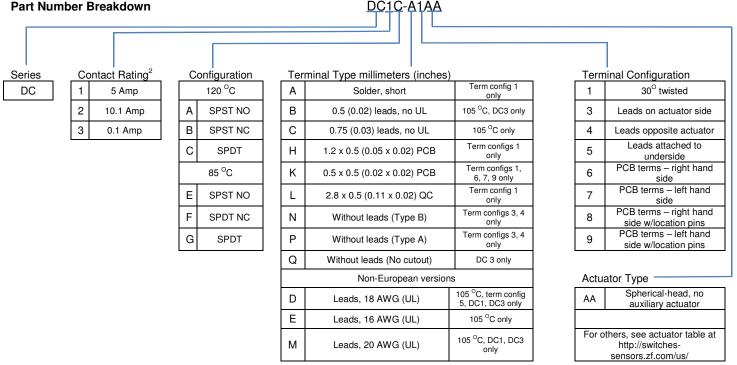
- Various aux actuators (can be retrofitted)
- Two mounting positions
- Mechanical life minimum 1,000,000 operations
- Rated for currents up to 10.1 A at 250 VAC

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

DC1C-A1AA	DC2C-A1AA	DC3C-A1AA
DC1C-A1LB	DC2C-A1LB	DC3C-A1LB
DC1C-A1RB	DC2C-A1RB	DC3C-A1RB

<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.

#### Part Number Breakdown



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

### Electrical Specifications – Contact Ratings

Contact	EN61058	UL1054
1	6 A, 250 VAC	5 A, 125/250 VAC; 1 A, 48 VDC
2	10 (1.5) A, 250 VAC	10.1 A, 125/250 VAC; ¼ HP, 125 VAC
3	0.1 A, 250 VAC	0.1 A, 125/250 VAC; 0.1 A, 30 VDC; 0.3 A, 60 VDC
4	3 A, 250 VAC	3 A, 125/250 VAC; 1 A, 48 VDC

UL file number E314201



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Contact Gap

Operating Force

50– 340 cN (model dependent, without actuator)

1.6 mm

< 3 mm (µ)

Total Travel (	(without actuator)			
Operating life				

Operating me				
	<u>Ope</u>	ration Cycles		
Contact	<u>EN61058</u>	<u>UL1054</u>	Mechanical Life	
1	10,000	6,000 (15,000 @ 48 VDC)	15,000,000	
2	10,000	6,000	10,000,000	
3	50,000	100,000 (6,000 @ 60 VDC)	15,000,000	
4	50,000	6,000 (15,000 @ 48 VDC)	15,000,000	

#### **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 <sup>o</sup> C, POM (UL 94 HB) 85 <sup>o</sup> 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/

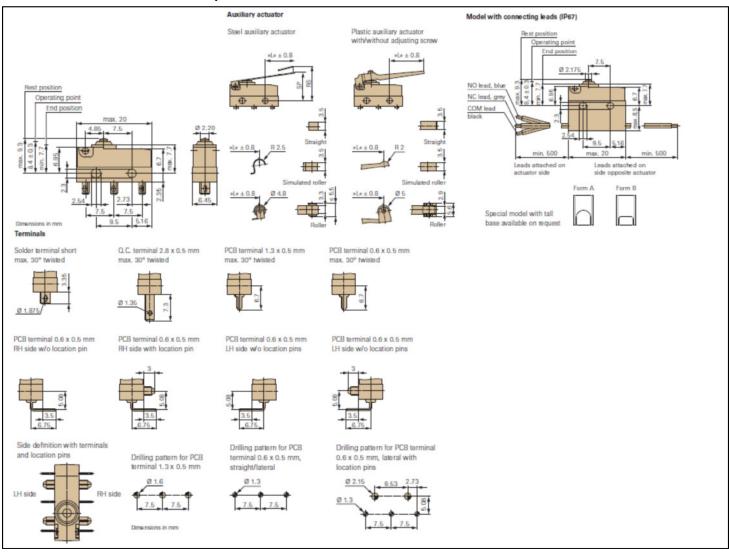
#### **Environmental Specifications**

Ambient Temperature

-40 °C to 85 / 120 °C (-40 °F to 185 / 248 °F) without wire leads -40 °C to 85 / 105 °C (-40 °F to 185 / 221 °F) without wire leads IP67

Ingress Protection

### **Dimensions mm and Terminal Options**



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Authorized Distributor

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ZF Electronics:

DC1C-K6AA DC1C-L1LC DC2C-E5AA DC2C-E5LB DC1C-A1RB DC3C-A1LB DC2C-A1LB DC1C-A1LB DC2C-A1RB DC3C-M5RB DC2C-A1AA DC3C-A1AA DC1C-A1AA DC3C-D5AA DC1C-D5AA DC3C-A1RB