# **Sealed Subminiature Snap Switch**

# **Single Pole**

DC Series

#### Features

- Precise snap action switch
- Long life coil spring mechanism
- Switching current 0.1 to 10 A at 250 VAC
- Versions up to 3 A 30 VDC possible
- Temperature range: -40 to 85 °C/120 °C

- Protection class: IP67 (switching system)
- Different mounting options (location posts, mounting holes)
- Various aux actuators (also for retrofitting)
- Various terminal types
- Wire versions available protection class IP67

# Standard Parts<sup>1</sup>

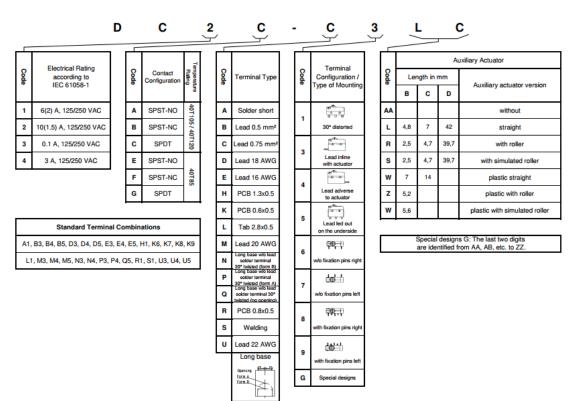
DC1C-A1LB	DC1C-L1AA	DC1C-C4AA	DC1C-C3LC	DC1C-C3AA	DC1C-A1AA	DC2C-A1LB
DC2C-H1AA	DC2C-L1AA	DC2C-C3LD	DC2C-C3AA	DC2C-A1AA	DC2C-A1RC	DC2C-A1RB
DC2C-A1LC	DC3C-L1RC	DC3C-L1LB	DC3C-L1AA	DC3C-H1AA	DC3C-C3AA	DC3C-A1RC
DC3C-A1RB	DC3C-A1LC	DC3C-A1LB	DC3C-A1AA			

<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: switches-sensors@zf.com

#### **Order Code Matrix**

#### Numbering Matrix Switch Series DC



https://switches-sensors.zf.com/

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#### **Electrical Specifications – Contact Ratings**

Contact	EN61058	Electrical life	Ø of wire
DC1	6(2) A, 125/250 VAC	10,000	0.75 mm <sup>2</sup>
DC1 DC2	10 (1.5) A, 125/250 VAC	10,000	0.75 mm <sup>2</sup>
DC3	0.1 A, 125/250 VAC	100,000	0.50 mm <sup>2</sup>
DC4	3 A, 125/250 VAC	50,000	0.50 mm <sup>2</sup>

Contact	UL61058-1	Electrical life 40T85	Electrical life 40T105 / 40T120	Ø of wire
DC1	6(2) A, 125/250 VAC	10,000	10,000	0.75 mm <sup>2</sup>
DC2	10 (1.5) A, 125/250 VAC	10,000		0.75 mm <sup>2</sup>
DC3	0.1 A, 125/250 VAC	100,000	100,000	0.50 mm <sup>2</sup>
DC4	3 A, 125/250 VAC	50,000	50,000	0.50 mm <sup>2</sup>

Contact	UL 1054	Electrical life	Ø of wire
DC1	5 A, 125/250 VAC	6,000	AWG20
DC2	10.1 A, 125/250 VAC	6,000	-
DC3	0.1 A, 125/250 VAC	100,000	AWG22
DC4	3 A, 125/250 VAC	6,000	AWG22

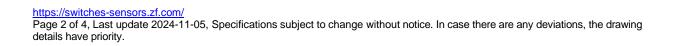
UL file number E314201

# **Environmental and Mechanical Specifications**

Operating force	200 – 340 cN (model dependent, without actuator)
Mechanical life	min. 1x10 <sup>6</sup> operations
Temperature range	-40 °C to 85 / 120 °C without wire leads
	-40 <sup>o</sup> C to 85 / 105 <sup>o</sup> C without wire leads
Protection class	IP67

# **Material Specifications**

0	
Cover	PBT (UL 94 V-0); PET (UL 94 V-0)
Actuator	POM (UL 94 HB) 85 °C, PBT (UL 94V-0) 120 °C
Base	PET (UL 94V-0)
Contacts	Ag, AgNi, AuAgPt (Crosspoint)
Terminals	CuZn (silver-plated)
Sealing Gasket	VMQ
Auxiliary Actuator	Stainless steel or plastic

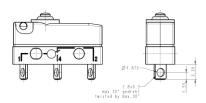




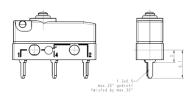
# Dimensions (mm) and terminal configurations

#### Terminals

# Solder terminals short

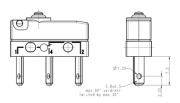


# PCB terminals 1.3x0.5, straight

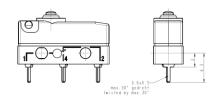




Q.C. terminals 2.8x0.



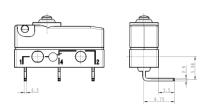
#### PCB terminals 0.6x0.5, straight





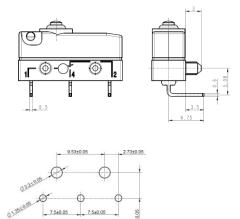
PCB terminals 0.6x0.5 LH-side without location posts

# PCB terminals 0.6x0.5 RH-side without location posts

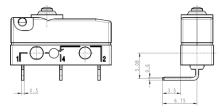




#### PCB terminals 0.6x0.5 RH-side with location posts

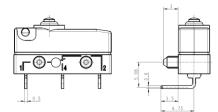


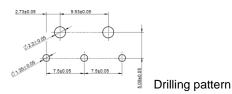






#### PCB terminals 0.6x0.5 LH-side with location posts



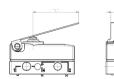


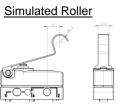
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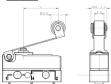
# **Auxiliary Actuators**

Straight



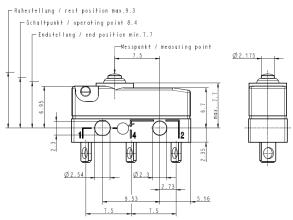


# Roller



#### Dimensions

#### DC short



# DC - long

