

# Sealed Subminiature Snap Switch



## Single Pole DC Series

### Features

- 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

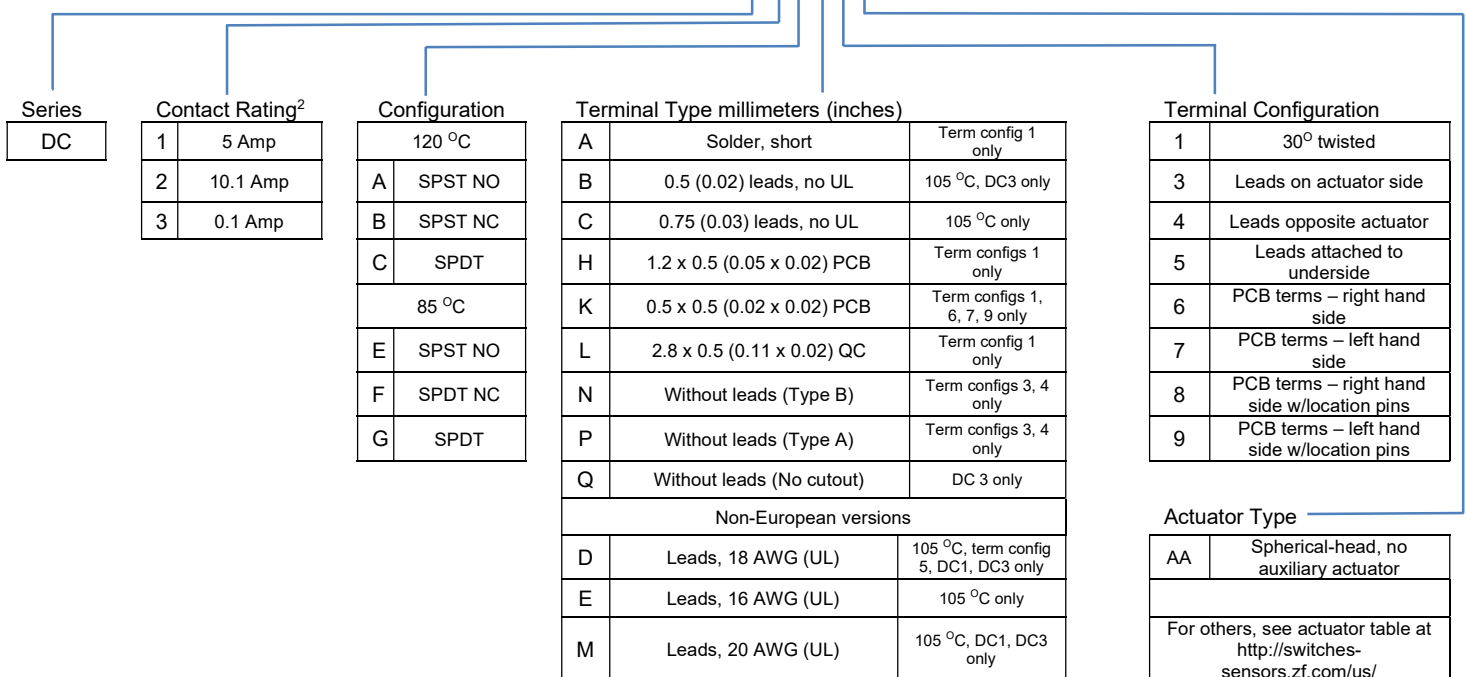
### Standard Parts<sup>1</sup>

|           |           |           |
|-----------|-----------|-----------|
| 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

DC1C-A1AA



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

### Electrical Specifications – Contact Ratings

| Contact | EN61058/UL61058-1   |
|---------|---------------------|
| 1       | 6 A, 250 VAC        |
| 2       | 10 (1.5) A, 250 VAC |
| 3       | 0.1 A, 250 VAC      |
| 4       | 3 A, 250 VAC        |

UL file number E314201

[www.switches-sensors.zf.com](http://www.switches-sensors.zf.com) ZF Electronics Systems Pleasant Prairie, LLC (“ZF”) acquired the rights to the CHERRY branded switches and sensors in 2008. Although ZF divested its interest in the CHERRY name in 2015, the switches and sensors remain unchanged and are now sold under the ZF brand.

Page 1 of 2, Last update 2023-11-01, Specifications subject to change without notice.



## Mechanical Specifications

|                                 |  |
|---------------------------------|--|
| Contact Gap                     | < 3 mm ( $\mu$ )                               |
| Operating Force                 | 50– 340 cN (model dependent, without actuator) |
| Total Travel (without actuator) | 1.6 mm   |
| Operating life                  |  |

| Contact | Operation Cycles            | Mechanical Life |
|---------|-----------------------------|-----------------|
| 1       | EN61058/UL61058-1<br>10,000 | 15,000,000      |
| 2       | 10,000                      | 10,000,000      |
| 3       | 50,000                      | 15,000,000      |
| 4       | 50,000                      | 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 °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 <a href="http://switches-sensors.zf.com/us/">http://switches-sensors.zf.com/us/</a> |

## Environmental Specifications

|                     |  |
|---------------------|--|
| Ambient Temperature | -40 °C to 85 / 120 °C (-40 °F to 185 / 248 °F) without wire leads<br>-40 °C to 85 / 105 °C (-40 °F to 185 / 221 °F) without wire leads |
| Ingress Protection  | IP67   |

## Dimensions mm and Terminal Options

