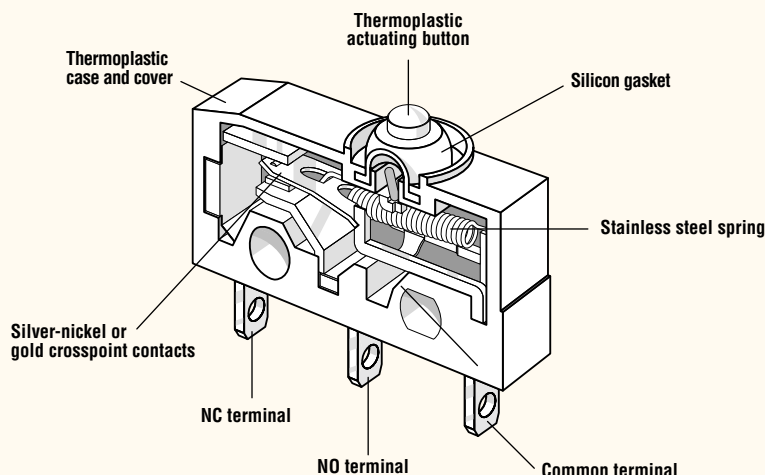


## SUBMINIATURE — SEALED

# DC Series

### Features

- Enclosed switch complying with IP 6K7
- Silicon-free version available
- Models available for operating temperatures up to 120°C
- Rated for currents up to 10 amp at 250VAC
- Range of auxiliary actuators available (can also be retrofitted)
- Various contact materials available, depending on application
- Mechanical life: min. 1 x 10<sup>6</sup> operations
- Wide variety of connection options



### Electrical Ratings

| Switch Series | EN61058 Rating  | UL1054 Rating                    | Electrical Life at Rated Load     |                                   |
|---------------|-----------------|----------------------------------|-----------------------------------|-----------------------------------|
|               |                 |                                  | According to EN (Min. Operations) | According to UL (Min. Operations) |
| DC1           | 6A, 250V~       | 5A, 125/250VAC                   | 10,000                            | 6,000                             |
| DC2           | 10(1.5)A, 250V~ | 10.1A, 125/250VAC; 1/4HP, 125VAC | 10,000                            | 6,000                             |
| DC3           | 0.1A, 250V~     | 0.1A, 125/250VAC                 | 50,000                            | 6,000                             |
| DC4           | 3A, 250V~       | 3A, 125/250VAC                   | 50,000                            | 6,000                             |

### Specifications

#### Electrical

|                      |                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------|
| Temperature Rating:  | -40° to +85°C / +120°C (without wire leads)<br>-40° to +85°C / +105°C (with wire leads) |
| Flammability Rating: | UL94V-O (PET, PBT)<br>UL94HB (POM)                                                      |

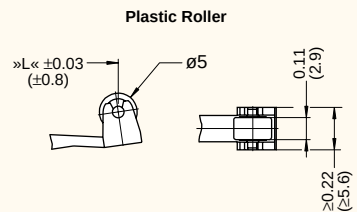
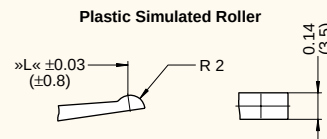
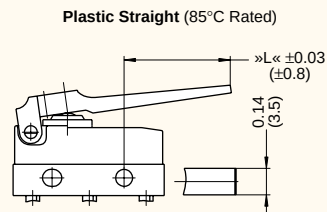
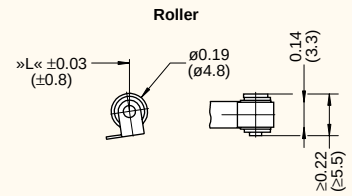
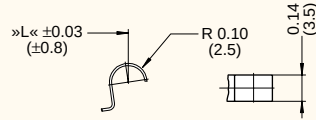
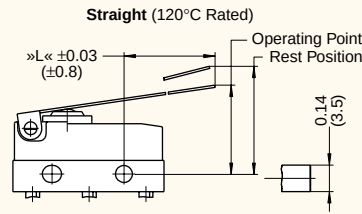
#### Materials

|                     |                                      |
|---------------------|--------------------------------------|
| Case:               | PET / PBT                            |
| Actuator:           | POM (T85), PBT (T120)                |
| Auxiliary Actuator: | Stainless Steel or Plastic           |
| Terminals:          | Silver-Plated Copper-Zinc            |
| Contacts:           | Silver Alloy (DC3 — Gold Crosspoint) |

PBT = Polybutyleneterephthalate • PET = Polyethyleneterephthalate • POM = Polyacetal



## Auxiliary Actuators inches (mm)

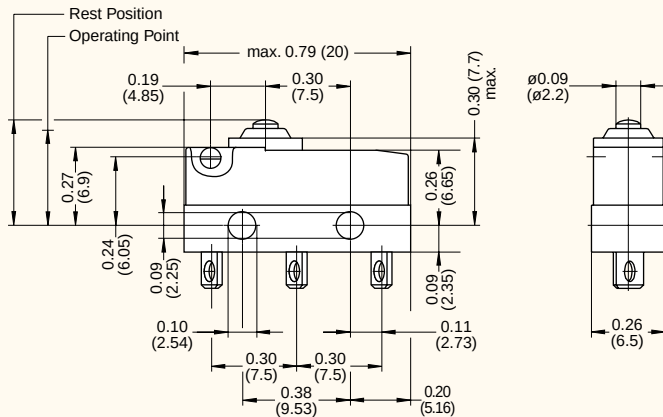


## Actuator Specifications

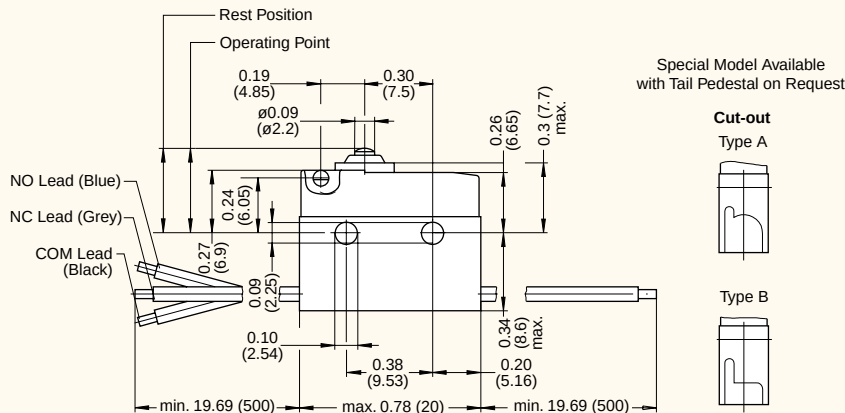
| Actuator Code | Switch Type | Maximum Operating Force (cN) |     | Maximum Pre-Travel inches (mm) |            | Operating Point inches (mm)              |                      | Minimum Over-Travel inches (mm) | Max. Movement Differential inches (mm) |              | Max. Rest Position inches (mm) | Actuation Length inches (mm) |
|---------------|-------------|------------------------------|-----|--------------------------------|------------|------------------------------------------|----------------------|---------------------------------|----------------------------------------|--------------|--------------------------------|------------------------------|
|               |             | DC1, DC3, DC4                | DC2 | DC1, DC3, DC4                  | DC2        | DC1, DC3, DC4                            | DC2                  |                                 | DC1, DC3, DC4                          | DC2          |                                |                              |
| AA            |             | 200                          | 340 | 0.04 (1.0)                     | 0.04 (1.0) | 0.33±0.01 (8.4±0.3)                      | 0.33±0.01 (8.4±0.3)  | 0.02 (0.6)                      | 0.004 (0.10)                           | 0.004 (0.10) | 0.37 (9.3)                     | —                            |
| LB            |             | 80                           | 150 | 0.18 (4.5)                     | 0.20 (5.0) | 0.42±0.05 (10.7±1.3)                     | 0.42±0.06 (10.7±1.6) | 0.06 (1.5)                      | 0.02 (0.5)                             | 0.03 (0.7)   | 0.55 (14.0)                    | 0.189 (4.8)                  |
| LC            |             | 70                           | 120 | 0.20 (5.0)                     | 0.22 (5.5) | 0.44±0.06 (11.1±1.5)                     | 0.44±0.07 (11.1±1.8) | 0.06 (1.5)                      | 0.02 (0.6)                             | 0.04 (1.0)   | 0.59 (15.0)                    | 0.276 (7.0)                  |
| LD            |             |                              |     |                                |            | forces and travel available upon request |                      |                                 |                                        |              |                                | 1.654 (42.0)                 |
| SB            |             | 90                           | 160 | 0.18 (4.5)                     | 0.20 (5.0) | 0.63±0.05 (16.0±1.3)                     | 0.63±0.06 (16.0±1.6) | 0.06 (1.5)                      | 0.02 (0.5)                             | 0.03 (0.7)   | 0.75 (19.0)                    | 0.098 (2.5)                  |
| SC            |             | 80                           | 130 | 0.20 (5.0)                     | 0.22 (5.5) | 0.65±0.06 (16.4±1.5)                     | 0.65±0.07 (16.4±1.8) | 0.06 (1.5)                      | 0.02 (0.6)                             | 0.04 (1.0)   | 0.79 (20.0)                    | 0.185 (4.7)                  |
| SD            |             |                              |     |                                |            | forces and travel available upon request |                      |                                 |                                        |              |                                | 1.563 (39.7)                 |
| RB            |             | 90                           | 160 | 0.18 (4.5)                     | 0.20 (5.0) | 0.62±0.05 (15.8±1.3)                     | 0.62±0.06 (15.8±1.6) | 0.06 (1.5)                      | 0.02 (0.5)                             | 0.03 (0.7)   | 0.75 (19.0)                    | 0.098 (2.5)                  |
| RC            |             | 80                           | 130 | 0.20 (5.0)                     | 0.22 (5.5) | 0.64±0.06 (16.2±1.5)                     | 0.64±0.07 (16.2±1.8) | 0.06 (1.5)                      | 0.02 (0.6)                             | 0.04 (1.0)   | 0.79 (20.0)                    | 0.185 (4.7)                  |
| RD            |             |                              |     |                                |            | forces and travel available upon request |                      |                                 |                                        |              |                                | 1.563 (39.7)                 |
| WB            |             | 68                           | 115 | 0.18 (4.5)                     | 0.18 (4.5) | 0.44±0.06 (11.1±1.5)                     | 0.44±0.06 (11.1±1.5) | 0.08 (2.0)                      | 0.02 (0.6)                             | 0.02 (0.6)   | 0.59 (15.0)                    | 0.276 (7.0)                  |
| WC            |             | 50                           | 85  | 0.24 (6.0)                     | 0.24 (6.0) | 0.48±0.07 (12.2±1.8)                     | 0.48±0.07 (12.2±1.8) | 0.12 (3.0)                      | 0.03 (0.8)                             | 0.03 (0.8)   | 0.67 (17.0)                    | 0.551 (14.0)                 |
| VB            |             | 73                           | 125 | 0.18 (4.5)                     | 0.18 (4.5) | 0.47±0.06 (11.9±1.4)                     | 0.47±0.06 (11.9±1.4) | 0.08 (2.0)                      | 0.02 (0.6)                             | 0.02 (0.6)   | 0.59 (15.0)                    | 0.220 (5.6)                  |
| ZB            |             | 73                           | 125 | 0.18 (4.5)                     | 0.18 (4.5) | 0.63±0.06 (16.0±1.4)                     | 0.63±0.06 (16.0±1.4) | 0.06 (1.5)                      | 0.02 (0.6)                             | 0.02 (0.6)   | 0.75 (19.0)                    | 0.205 (5.2)                  |



## Dimensions inches (mm)



### Model with Connecting Leads



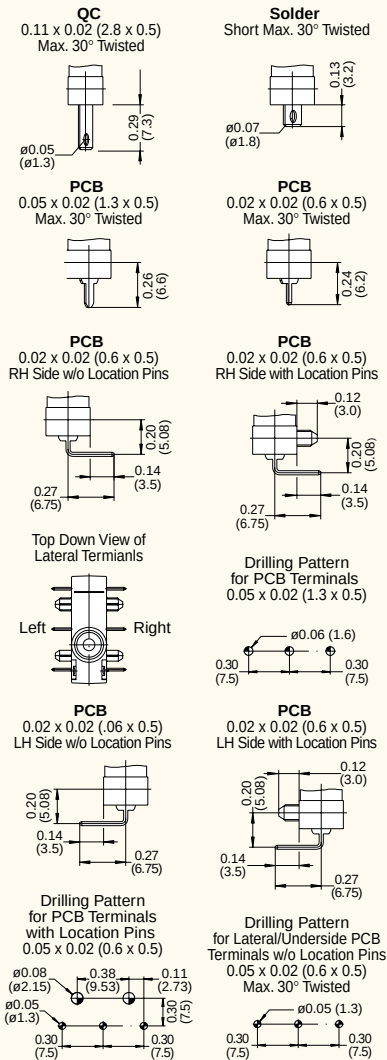
Special Model Available  
with Tail Pedestal on Request

### Cut-out

Type A

Type B

## Terminal Options inches (mm)



## Ordering Information

DC

3

Series/Prefixed

| Code           | UL Rating                          | EN 61058 Rating |  |
|----------------|------------------------------------|-----------------|--|
| 1              | 5A,125/250VAC                      | 6A, 250V~       |  |
| 2              | 10.1A, 125/250VAC<br>1/4HP, 125VAC | 10(1.5)A, 250V~ |  |
| 3              | 0.1A, 125/250VAC                   | 0.1A, 250V~     |  |
| 4 <sup>1</sup> | 3A, 250VAC                         | 3A, 250V~       |  |

Contact Configuration

+85°C Operating Temp

+105°/120°C Operating Temp

| Code |         | Code |         |
|------|---------|------|---------|
| E    | SPST NO | A    | SPST NO |
| F    | SPST NC | B    | SPST NC |
| G    | SPDT    | C    | SPDT    |

Notes:

Wire leads 500mm min. (approximately 20" long)

- Only available with terminal configuration 1.
- +85°C rated only.
- Only available with DC1, DC3 and DC4.
- Rating code 4 only as lead-version — leads 0.5mm<sup>2</sup>.
- Wire versions only rated to +105°C.
- Only available with terminal configuration 3 or 4.

- Only available with terminal configuration 1, 6, 7, 8 or 9.
- Only available with terminal configuration 5.
- Only available with DC3 and DC4.
- Not available with DC2.
- Not available in North America.

| 3 L            |                     | C      |                              |              |              |
|----------------|---------------------|--------|------------------------------|--------------|--------------|
| Code           | Actuator Type       | Code A | Actuation Length inches (mm) |              |              |
|                |                     |        | B                            | C            | D            |
| AA             | Button only         | —      | —                            | —            | —            |
| L              | Lever               | —      | 0.189 (4.8)                  | 0.276 (7.0)  | 1.654 (42.0) |
| R              | Roller              | —      | 0.098 (2.5)                  | 0.185 (4.7)  | 1.563 (39.7) |
| S              | Simulated Roller    | —      | 0.098 (2.5)                  | 0.185 (4.7)  | 1.563 (39.7) |
| V <sup>2</sup> | Plastic Sim. Roller | —      | 0.220 (5.6)                  | —            | —            |
| W <sup>2</sup> | Plastic Straight    | —      | 0.276 (7.0)                  | 0.551 (14.0) | —            |
| Z <sup>2</sup> | Plastic with Roller | —      | 0.205 (5.2)                  | —            | —            |

| Code | Terminal Configuration                           |
|------|--------------------------------------------------|
| 1    | 30° Twisted                                      |
| 3    | Leads on Actuator Side                           |
| 4    | Leads on Opposite Side from Actuator             |
| 5    | Leads Attached to Underside                      |
| 6    | PCB Terminals Right-hand Side                    |
| 7    | PCB Terminals Left-hand Side                     |
| 8    | PCB Terminals Right-hand Side with Location Pins |
| 9    | PCB Terminals Left-hand Side with Location Pins  |

Specifications subject to change without notice.