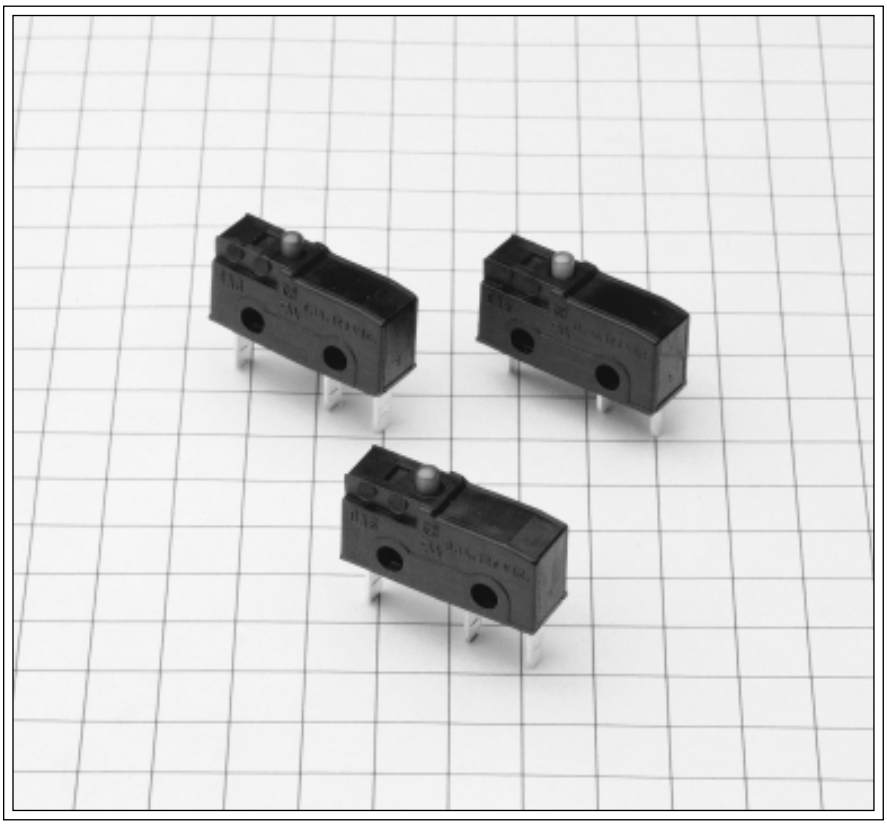
# DA3 Series

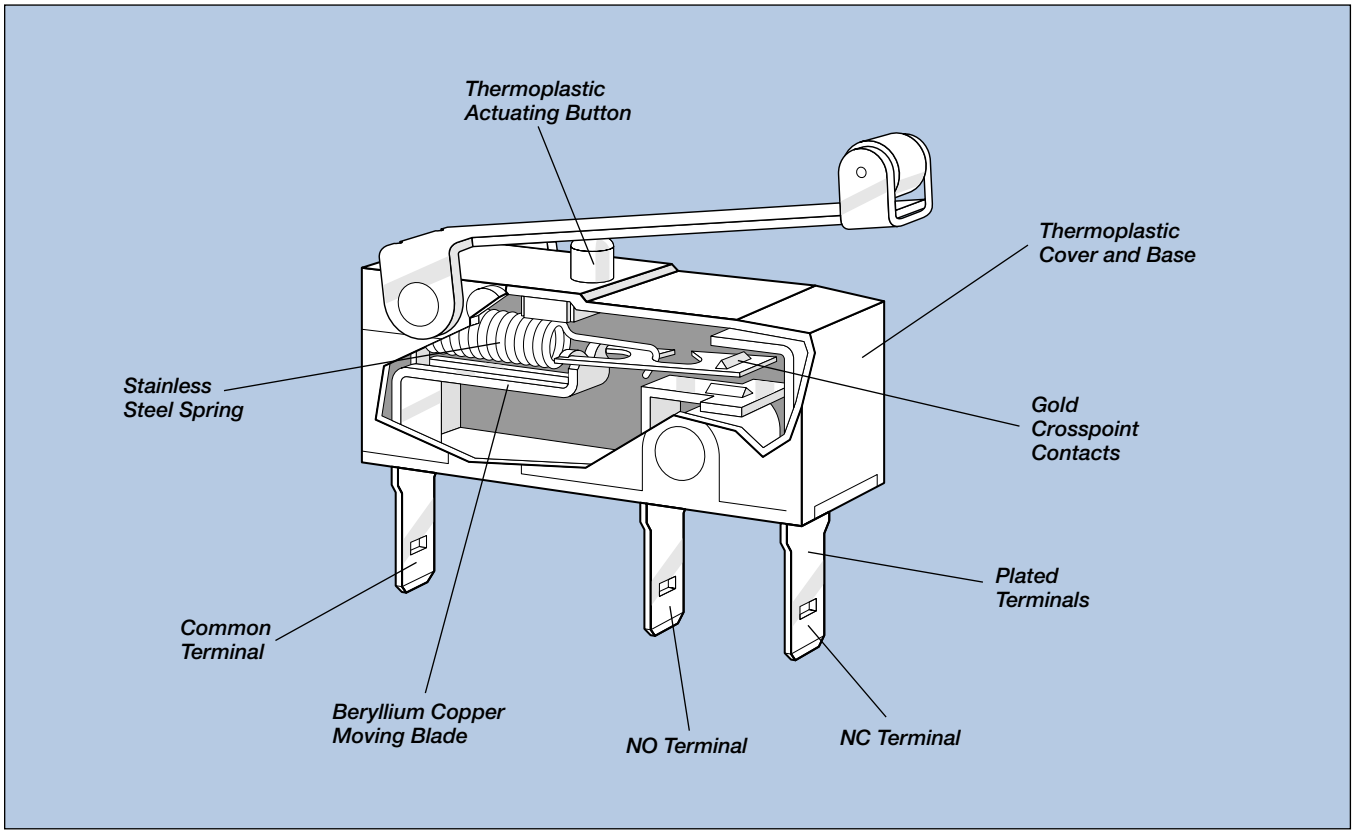
# Subminiature

**DA3 0.1 amp**

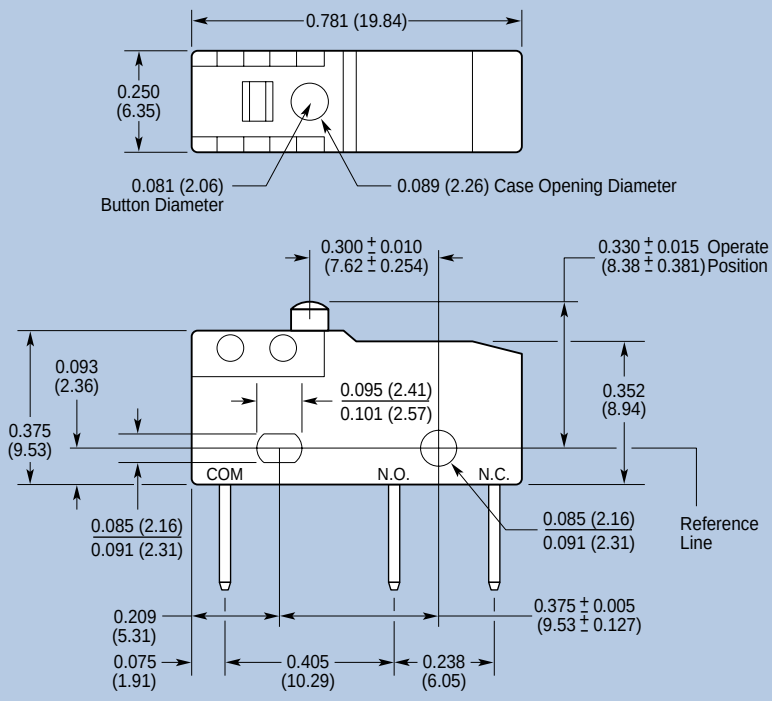
## Features

- **Long life coil spring construction**
- **Standard gold crosspoint contacts (0.1 amp) for low level switching applications**
- **Silver contacts low voltage DAB version also available. Not agency approved. Consult factory.**
- **Five standard terminals to choose from**
- **Automated assembly insures high quality and reliability**
- **Choice of external snap-on actuators**
- **Custom actuators available**

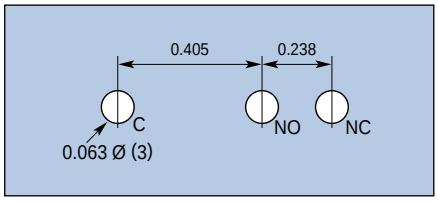




## Dimensions: Inches (mm)




## PCB Footprint




## Contacts & Ratings

| Series Prefix | Rating |
|---|---|
| DA3 | 0.1 amp 125 VAC<br>Gold Crosspoint Contacts |
| Temperature Rating | -40° to +85°C |
| Flammability Rating | UL94V-O |

## Electrical Specifications/Life

See electrical life chart on page 11-4.

## Circuitry

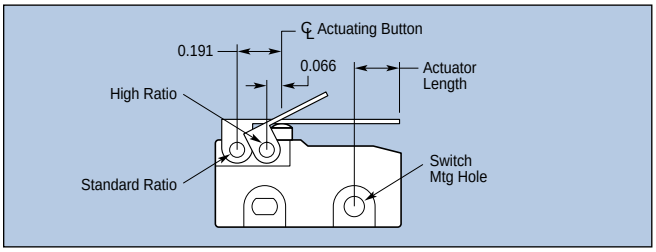
Contact arrangement available in choice of single pole double throw, or single pole single throw, either normally open or normally closed.

## Mounting

Recommended mounting screw size: #2-56 round head.
Recommended torque on screw: 2 inch lbs. max.
(with flat washer min. 0.240″ outside diameter).

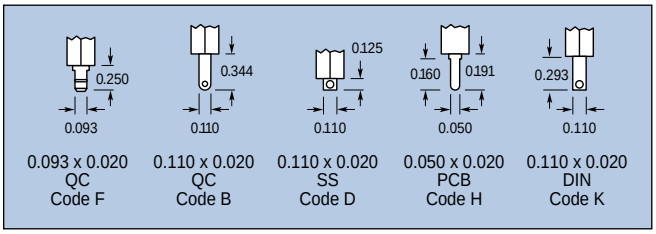
## Actuators

Many special forms and lengths of actuators are available. External actuators can be snapped on in either of two locations (standard lever ratio or high lever ratio). Actuator lengths are dimensioned from centerline of switch mounting hole (see drawing).




## Terminals

The DA Series is available in five standard terminal types.



## Materials

| | |
|---|---|
| Case | Thermoplastic Polyester |
| Actuating Button | Thermoplastic Acetal |
| Terminals | Silver Plated Bronze |
| Moving Blade | Silver Plated Beryllium Copper |
| Contacts | Gold Crosspoint |
| Spring | Stainless Steel Copper Coated |
| Auxiliary Actuators | Stainless Steel<br>Cold-Rolled Steel (Nickel Plated) |
| Roller | Stainless Steel |

## How to Order

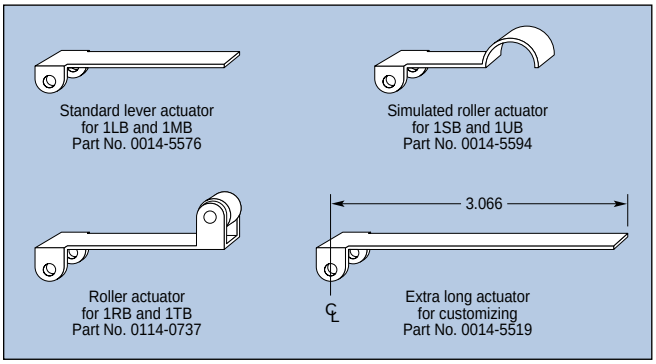
Combine the corresponding Series/Prefix number with the appropriate suffix number for the switch type, circuitry and terminals you require.

**Example:** To order a DA3 Series Subminiature Switch, double throw circuitry, 0.110" x 0.020" quick connect terminal, standard terminal configuration, a basic button type, Part Number is DA3C-B1AA.

**Note:** Silver contact, low voltage versions available – consult factory.

## Ordering Actuators Separately

There are three standard actuators available plus an extra long actuator which may be used for customizing forms and lengths. To order actuators for the DA3 Series Subminiature Switch, use the actuator part number shown. Actuators may be ordered separately and installed on switches as required.




## Ordering Information

**DA** **3** **C** **B** **1** **A** **A**

**Series/Prefix**

| Code | Current Rating | |
|---|---|---|
| | UL | VDE |
| 3 | 0.1 amp | 0.1 amp (0.05 amp) |
| | 125 VAC | 50 VAC |

| Code | Contact Config. |
|---|---|
| A | SPST N.O. |
| B | SPST N.C. |
| C | SPDT |

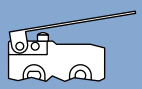
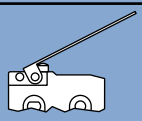
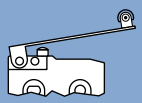
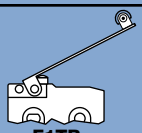
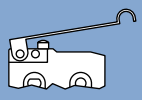
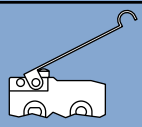
| Code | Terminal Type |
|---|---|
| F | 0.093 x 0.020 QC |
| B | 0.110 x 0.020 QC |
| D | 0.110 x 0.020 SS |
| H | 0.050 x 0.020 PCB |
| K | 0.110 x 0.020 DIN |

| Code | Terminal Config. |
|---|---|
| 1 | Standard |
| W | Special |

| CODE | Actuator | | Code | Actuator Length A | B | C |
|---|---|---|---|---|---|---|
| A | Button | | | — | — | — |
| L | Lever | Standard Ratio | | .154 | .271 | .403 |
| M | Actuator | High Ratio | | .279 | .396 | .528 |
| R | Roller | Standard Ratio | | (-.061) | .201 | .330 |
| T | Actuator | High Ratio | | .064 | .326 | .455 |
| S | Simulated | Standard Ratio | | .110 | .197 | .255 |
| U | Roller | High Ratio | | .235 | .322 | .380 |

Actuator lengths are dimensioned from center line of switch mounting hole.
Refer to dimensional drawing on page 2-7.

**Characteristics:** OF – Operating Force, PT – Pretravel, OP – Operating Point, OT – Overtravel, MD – Movement Differential, AL – Actuator Length

| Switch Types | OF Max. gms. | PT Max. Inches | OT Min. Inches | MD Max. Inches | AL Inches | OP Inches |
|---|---|---|---|---|---|---|
|  -F1AA | 90 | 0.030 | 0.035 | 0.007 | — | 0.345 / 0.315 |
|  -F1LB | 27 | 0.144 | 0.054 | 0.028 | 0.271 | 0.348 / ±0.060 |
|  -F1MB | 9 | 0.416 | 0.078 | 0.081 | 0.396 | 0.350 / ±0.173 |
|  -F1RB | 30 | 0.131 | 0.046 | 0.025 | 0.201 | 0.571 / ±0.054 |
|  -F1TB | 10 | 0.379 | 0.067 | 0.074 | 0.326 | 0.571 / ±0.173 |
|  -F1SB | 30 | 0.131 | 0.046 | 0.025 | 0.197 | 0.571 / ±0.054 |
|  -F1UB | 10 | 0.379 | 0.067 | 0.074 | 0.322 | 0.571 / ±0.173 |

**Remarks:** * Measured above reference line. Refer to dimensional drawing on page 2-7.