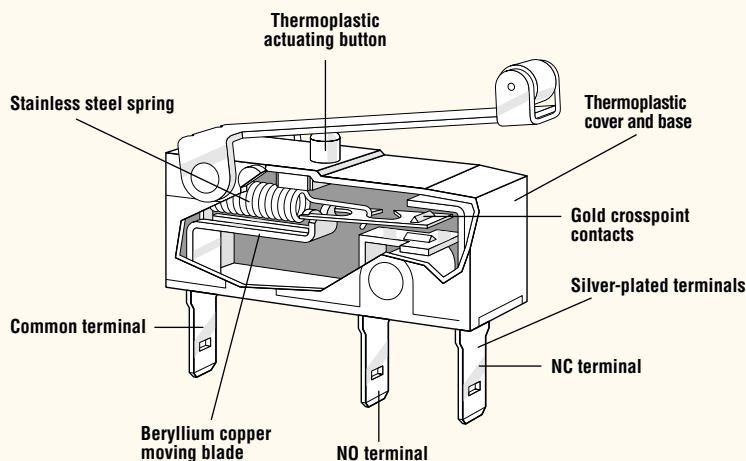


# SUBMINIATURE DA Series

## Features

- Long life coil spring construction
- Standard gold crosspoint contacts (0.1 amp) for low level switching applications
- Silver contact low voltage DAB version also available. Consult factory.
- Five standard terminals to choose from
- Automated assembly insures high quality and reliability
- Choice of external snap-on actuators
- Custom actuators available
- VDE approved



## Electrical Ratings

| Switch Series | EN61058 Rating    | UL1054 Rating | Electrical Life at Rated Load         |                                      |
|---------------|-------------------|---------------|---------------------------------------|--------------------------------------|
|               |                   |               | According to VDE<br>(Min. Operations) | According to UL<br>(Min. Operations) |
| DA3           | 0.1(0.05)A, 50VAC | 0.1A, 125VAC  | 50,000                                | 100,000                              |
| DAB           | N/A               | 5A, 24VDC     | N/A                                   | 6,000                                |

## Specifications

### Electrical

|                      |               |
|----------------------|---------------|
| Temperature Rating:  | -40° to +85°C |
| Flammability Rating: | UL94V-O       |

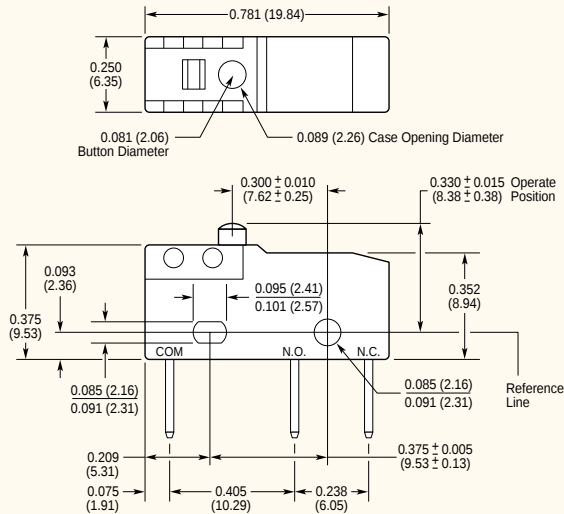
### Materials

|                     |                                     |
|---------------------|-------------------------------------|
| Case:               | Thermoplastic Polyester             |
| Actuating Button:   | Thermoplastic Acetal                |
| Terminals:          | Silver-Plated Bronze                |
| Moving Blade:       | Silver-Plated Beryllium Copper      |
| Spring:             | Copper-Coated Stainless Steel       |
| Auxiliary Actuator: | Stainless Steel                     |
| Roller:             | Stainless Steel                     |
| Contacts:           | Gold Crosspoint (DA3), Silver (DAB) |





## Dimensions inches (mm)



## Actuator Specifications

| Actuator Type | Switch Type | Maximum Operating Force (gms.) | Maximum Pre-Travel inches (mm) | Operating Point inches (mm) | Minimum Over-Travel inches (mm) | Max. Movement Differential inches (mm) | Actuation Length inches (mm) |
|---------------|-------------|--------------------------------|--------------------------------|-----------------------------|---------------------------------|----------------------------------------|------------------------------|
| -AA           |             | 90                             | 0.030 (0.76)                   | 0.330±0.015 (8.38±0.38)     | 0.035 (0.89)                    | 0.007 (0.18)                           | —                            |
| -LB           |             | 27                             | 0.144 (3.66)                   | 0.348±0.060 (8.84±1.52)     | 0.054 (1.37)                    | 0.028 (0.71)                           | 0.271 (6.88)                 |
| -MB           |             | 9                              | 0.416 (10.57)                  | 0.350±0.173 (8.90±4.39)     | 0.078 (1.98)                    | 0.081 (2.06)                           | 0.396 (10.06)                |
| -RB           |             | 30                             | 0.131 (3.33)                   | 0.571±0.054 (14.50±1.37)    | 0.046 (1.17)                    | 0.025 (0.64)                           | 0.201 (5.11)                 |
| -TB           |             | 10                             | 0.379 (9.63)                   | 0.571±0.173 (14.50±4.39)    | 0.067 (1.70)                    | 0.074 (1.88)                           | 0.326 (8.28)                 |
| -SB           |             | 30                             | 0.131 (3.33)                   | 0.571±0.054 (14.50±1.37)    | 0.046 (1.17)                    | 0.025 (0.64)                           | 0.197 (5.00)                 |
| -UB           |             | 10                             | 0.379 (9.63)                   | 0.571±0.173 (14.50±4.39)    | 0.067 (1.70)                    | 0.074 (1.88)                           | 0.322 (8.18)                 |

## 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" [6.10mm] outside diameter).

## Ordering Information

DA

3

C

B

1

A

A

Series/Prefix

Code

Current Rating

3

0.1A, 125VAC

B

5A, 24VDC

Code

Contact Configuration

A

SPST NO

B

SPST NC

C

SPDT

Terminal Type

inches (mm)

B

0.110 x 0.020 (2.79 x 0.51) QC

D

0.110 x 0.020 (2.79 x 0.51) SS

F

0.093 x 0.020 (2.36 x 0.51) QC

H

0.050 x 0.020 (1.27 x 0.51) PCB

K

0.110 x 0.020 (2.79 x 0.51) DIN

Code

Terminal Configuration

1

Standard

Code

Actuator Type

AA

Button

L

Lever Standard Ratio

M

Lever High Ratio

R

Roller Standard Ratio

T

Roller High Ratio

S

Simulated Roller Standard Ratio

U

Simulated Roller High Ratio

Code

Actuation Length

inches (mm)

A

B

C

—

—

—

0.154 (3.91)

0.271 (6.88)

0.403 (10.24)

0.279 (7.09)

0.396 (10.06)

0.528 (13.41)

-0.061 (-1.55)

0.201 (5.11)

0.330 (8.38)

0.064 (1.63)

0.326 (8.28)

0.455 (11.56)

0.110 (2.79)

0.197 (5.00)

0.258 (6.55)

0.235 (5.97)

0.322 (8.18)

0.383 (9.73)

Actuation lengths are dimensioned from center line of switch mounting hole. Refer to dimensional drawing.