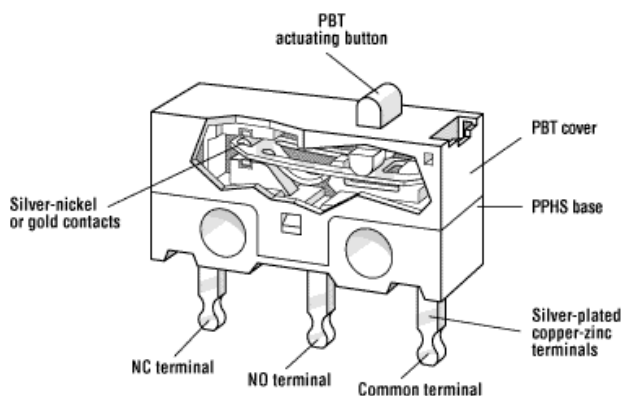


## Subminiature Snap Action Switch

# DG Series



### Features

- Small size, just 0.504" x 0.228" x 0.256" (12.8mm x 5.8mm x 6.5mm)
- Contact rating of 0.05A up to 3A
- Can be mounted to circuit boards in upright position or horizontally with terminals bent left or right
- Mechanical life: min 1 x 10<sup>6</sup> operations (depending on model)
- RoHS compliant

| Electrical Ratings and Operating Life |                     |                  |                       |                       |
|---------------------------------------|---------------------|------------------|-----------------------|-----------------------|
| Switch Series                         | According to UL1054 |                  | Mechanical Life (min) | Electrical Life (min) |
|                                       | Nominal Load        | Operation cycles |                       |                       |
| DG1                                   | 3A, 125VAC          | 6000             | 1,000,000 cycles      | 10,000 cycles AC load |
|                                       | 2A, 30VDC           |                  |                       | 30,000 cycles DC load |
| DG2                                   | 0.05 A, 30VDC       | 6000             | 1,000,000 cycles      | 200,000 cycles        |
| DG4                                   | 1A, 125VAC          | 6000             | 1,000,000 cycles      | 10,000 cycles AC load |
|                                       | 1A, 30VDC           |                  |                       | 10,000 cycles DC load |

| Technical Specifications |               | Material Specifications |                                         |
|--------------------------|---------------|-------------------------|-----------------------------------------|
| Temperature Rating:      | -25°C to 85°C | Base:                   | PPS UL 94V-0                            |
| Degree of Protection:    | IP40          | Cover:                  | PBTP UL 94V-0                           |
| Contact Gap              | < 3mm (μ)     | Actuator button:        | PBTP UL 94V-0                           |
| Contact Configuration:   | SPDT          | Contacts:               | DG1 / DG4<br>Silver Alloy<br>Gold Flash |
| UL File Number:          | E23301        | Terminals:              | Brass (silver plated)                   |
|                          |               | Auxiliary actuator:     | Stainless steel                         |

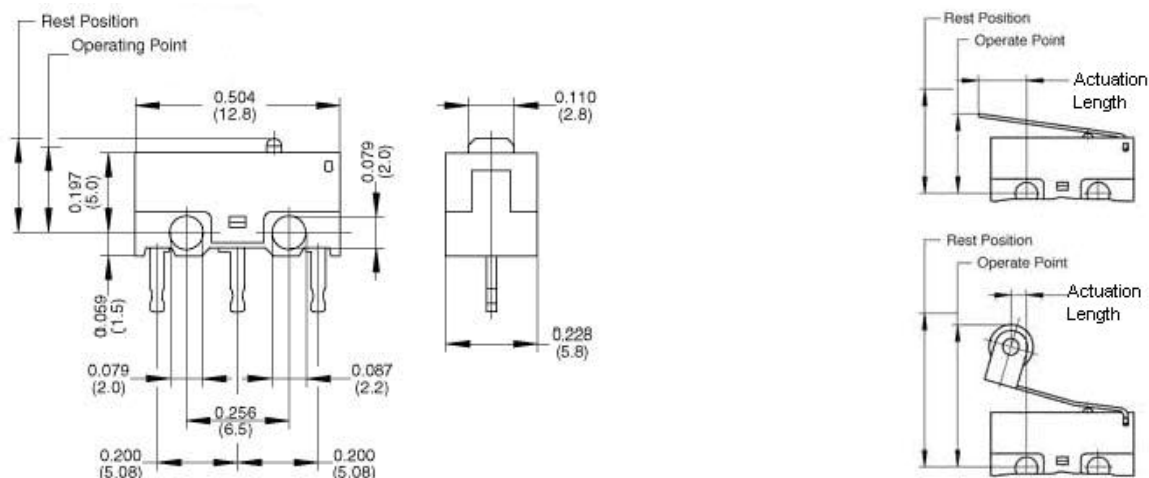
Specifications subject to change



## Subminiature Snap Action Switch

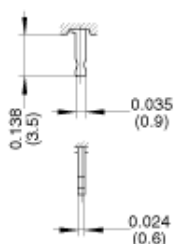
# DG Series

Dimensions inches (mm)

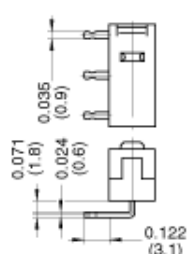


Terminal Options inches (mm)

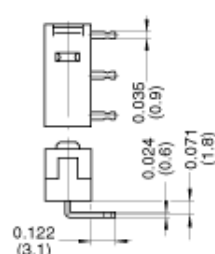
**PCB Terminals  
Straight**



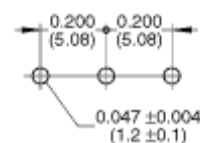
**PCB Terminals  
LH Side**



**PCB Terminals  
RH Side**



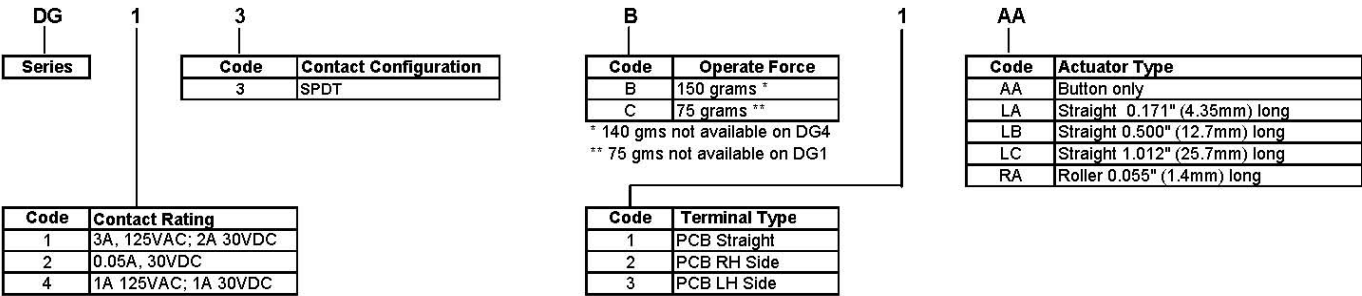
**Drilling Pattern**



Commonly Stocked Distributor Items / Preferred Part Numbers

| Part Number | Lever Type    | Maximum Operate Force (gms) | Maximum Pre-Travel inches (mm) | Operate Point inches (mm)               | Minimum Overtravel inches (mm) | Max. Movement Differential inches (mm) | Max. Rest Position inches (mm) | Actuation Length inches (mm) |
|-------------|---------------|-----------------------------|--------------------------------|-----------------------------------------|--------------------------------|----------------------------------------|--------------------------------|------------------------------|
| DG13B1AA    | N/A           | 140                         | 0.020 (0.5)                    | 0.213 +/- 0.008 (5.4 +/- 0.20)          | 0.008 (0.2)                    | 0.004 (0.1)                            | 0.232 (5.9)                    | N/A                          |
| DG13B1LA    | Flat straight | 45                          | 0.071 (1.80)                   | 0.268 + 0.031/- 0.016 (6.8 + 0.8 / 0.4) | 0.022 (0.55)                   | 0.020 (0.5)                            | 0.370 (9.4)                    | 0.171 (43.5)                 |
| DG13B1RA    | Roller        | 60                          | 0.059 (1.5)                    | 0.488 +/- 0.020 (12.4 +/- 0.5)          | 0.022 (0.55)                   | 0.020 (0.5)                            | 0.547 (13.9)                   | 0.055 (1.4)                  |
| DG13B2LA    | Flat straight | 45                          | 0.071 (1.80)                   | 0.268 + 0.031/- 0.016 (6.8 + 0.8 / 0.4) | 0.022 (0.55)                   | 0.020 (0.5)                            | 0.370 (9.4)                    | 0.171 (43.5)                 |
| DG23B1LA    | Flat straight | 45                          | 0.071 (1.80)                   | 0.268 + 0.031/- 0.016 (6.8 + 0.8 / 0.4) | 0.022 (0.55)                   | 0.020 (0.5)                            | 0.370 (9.4)                    | 0.171 (43.5)                 |
| DG23B1RA    | Roller        | 60                          | 0.059 (1.5)                    | 0.488 +/- 0.020 (12.4 +/- 0.5)          | 0.022 (0.55)                   | 0.020 (0.5)                            | 0.547 (13.9)                   | 0.055 (1.4)                  |
| DG23B2LA    | Flat straight | 45                          | 0.071 (1.80)                   | 0.268 + 0.031/- 0.016 (6.8 + 0.8 / 0.4) | 0.022 (0.55)                   | 0.020 (0.5)                            | 0.370 (9.4)                    | 0.171 (43.5)                 |
| DG23B2RA    | Roller        | 60                          | 0.059 (1.5)                    | 0.488 +/- 0.020 (12.4 +/- 0.5)          | 0.022 (0.55)                   | 0.020 (0.5)                            | 0.547 (13.9)                   | 0.055 (1.4)                  |
| DG23B3LA    | Flat straight | 45                          | 0.071 (1.80)                   | 0.268 + 0.031/- 0.016 (6.8 + 0.8 / 0.4) | 0.022 (0.55)                   | 0.020 (0.5)                            | 0.370 (9.4)                    | 0.171 (43.5)                 |
| DG23B3RA    | Roller        | 60                          | 0.059 (1.5)                    | 0.488 +/- 0.020 (12.4 +/- 0.5)          | 0.022 (0.55)                   | 0.020 (0.5)                            | 0.547 (13.9)                   | 0.055 (1.4)                  |

Ordering Information



Contact

Call, fax or visit our Website for more information.

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Technical data relates to product specifications only. Features may differ from those described. Only drawings combined with product specifications shall be deemed binding.

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