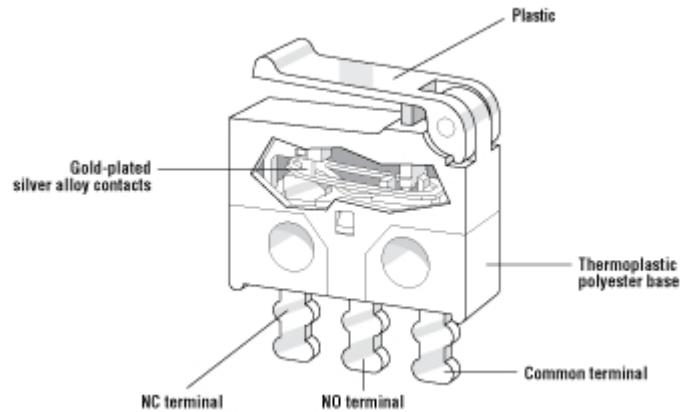


## Subminiature Snap Action Switch

# DH Series



### Features

- Ultraminiature dimensions, just 0.323" x 0.106" x 0.244" (8.2mm x 2.7mm x 6.2mm)
- Specifically designed for low switching currents and voltages
- Can be mounted to circuit boards in upright position or horizontally with terminals bent left or right
- Available with or without auxiliary actuator
- RoHS compliant

### Electrical Ratings and Operating Life

| Switch Series |                  |                       |                       |
|---------------|------------------|-----------------------|-----------------------|
|               | Nominal Load     | Mechanical Life (min) | Electrical Life (min) |
| DH2           | 5-500 mA @ 30VDC | 50,000                | 30,000                |

### Technical Specifications

|                        |                 |
|------------------------|-----------------|
| Temperature Rating:    | -25°C to 70°C   |
| Degree of Protection:  | IP40            |
| Contact Gap            | < 3mm ( $\mu$ ) |
| Contact Configuration: | SPDT            |

### Material Specifications

|                     |                         |         |
|---------------------|-------------------------|---------|
| Base:               | PPHS                    | UL94V-0 |
| Cover:              | PBTP                    | UL94V-0 |
| Actuator button:    | PBTP                    | UL94V-0 |
| Contacts:           | Gold Flash Silver Alloy |         |
| Terminals:          | Brass – Silver Plated   |         |
| Auxiliary actuator: | PBTP                    | UL94V-0 |

Specifications subject to change

# DH Series

Technical drawing of a Cherry lock cylinder showing front, side, and top views with dimensions.

**Front View Dimensions:**

- Overall width: 8.2
- Overall height: 2.7
- Actuation Length:  $0.85 \pm 0.2$
- Distance from top to actuation point: 5.5
- Distance from top to keyhole: 5.1
- Distance from top to keyhole (alternative): 4.55
- Distance from keyhole to bottom: 3.1
- Distance from keyhole to bottom (alternative):  $1.6 \pm 0.1$
- Distance from keyhole to bottom (alternative):  $1.3 \pm 0.1$
- Distance from keyhole to bottom (alternative):  $4 \pm 0.1$
- Distance from keyhole to bottom (alternative): 2.5
- Distance from keyhole to bottom (alternative): 2.5
- Distance from keyhole to bottom (alternative):  $2 - \phi 1.6 \pm 0.1$
- Distance from keyhole to bottom (alternative): N.C.
- Distance from keyhole to bottom (alternative): N.O.
- Distance from keyhole to bottom (alternative): C.

**Side View Dimensions:**

- Overall width: 2.5
- Distance from top to actuation point: 0.5  $\pm$  0.05

**Top View Dimensions:**

- Distance from top to actuation point: 0.85  $\pm$  0.2
- Distance from top to keyhole: 5.5
- Distance from top to keyhole (alternative): 5.1
- Distance from top to keyhole (alternative): 4.55
- Distance from top to keyhole (alternative): 3.1
- Distance from top to keyhole (alternative):  $1.6 \pm 0.1$
- Distance from top to keyhole (alternative):  $1.3 \pm 0.1$
- Distance from top to keyhole (alternative):  $4 \pm 0.1$
- Distance from top to keyhole (alternative): 2.5
- Distance from top to keyhole (alternative): 2.5
- Distance from top to keyhole (alternative):  $2 - \phi 1.6 \pm 0.1$
- Distance from top to keyhole (alternative): N.C.
- Distance from top to keyhole (alternative): N.O.
- Distance from top to keyhole (alternative): C.

**Other Labels:**

- CHERRY
- 0.P.
- F.P.
- Reference Line

Technical drawing of a mechanical part. The drawing shows a cross-section of a component with a central vertical slot. The total width is 4.0 ± 0.1. The central slot has a width of 2.5. The height of the central slot is 3. The height of the top flange is 1.6 ± 0.1. The height of the bottom flange is 0.64 ± 0.1. The distance from the center of the slot to the outer edge of the bottom flange is 2.5. A detail view on the right shows a cross-section of a pin with a diameter of 0.6 ± 0.05.

Technical drawing of a mechanical part with dimensions:

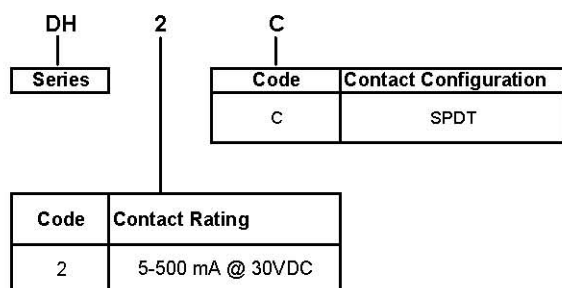
- Overall height:  $1.6 \pm 0.1$
- Distance from top to first step:  $3$
- Distance from top to second step:  $4 \pm 0.1$
- Distance from top to third step:  $1.2 \pm 0.1$
- Distance from top to fourth step:  $0.6 \pm 0.05$
- Distance from top to fifth step:  $2.5$
- Distance from top to sixth step:  $2.5$

**CHERRY** 

### 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) |
|-------------|------------------|-----------------------------|--------------------------------|---------------------------------|--------------------------------|----------------------------------------|--------------------------------|------------------------------|
| DH2CB1AA    | N/A              | 90                          | .014 (0.35)                    | .220 +/- .006<br>(5.6 +/- 0.15) | .004 (0.1)                     | .003 (0.07)                            | .282 (7.17)                    | N/A                          |
| DH2CB1PA    | Simulated Roller | 50                          | .051 (1.3)                     | .264 +/- .020<br>(6.7 +/- 0.5)  | .012 (0.3)                     | .024 (0.6)                             | .335 (8.5)                     | .033 (0.85)                  |

## Ordering Information



| Code | Terminal Type   |                                                                                       |
|------|-----------------|---------------------------------------------------------------------------------------|
| B1   | Solder Straight |    |
| B2   | Solder RH Side  |    |
| B3   | Solder LH Side  |    |
| C4   | PCB Straight    |    |
| C5   | PCB RH Side     |  |
| C6   | PCB LH Side     |  |

| Code | Actuator Type    |
|------|------------------|
| AA   | Button only      |
| PA   | Simulated Roller |

## 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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