

## V4 83170 Mushroom-head button Dual-current 831709 Part number made to order



- Nominal ratings 0.1 A to 10 A / 250 VAC
- Minimum rating 1 mA / 4 VDC
- Operating temperature up to +125 °C
- Operated via multidirectional action
- Conforming to standards EN 61058 and UL 1054
- Choice of actuators with 2 possible fixing positions

### Part numbers

|                      | Type                | Function       | Connections                                |
|----------------------|---------------------|----------------|--------------------------------------------|
| <b>MADE TO ORDER</b> | Dual-current 831709 | I (changeover) | W2 - W7A5 - X1 - X1S - X2 - X2S - X3 - X3S |

### Specifications

#### Electrical characteristics

|                              |      |
|------------------------------|------|
| Rating nominal / 250 VAC (A) | 0,1* |
| Rating thermal / 250 VAC (A) | 6    |

#### Mechanical characteristics

|                                     |                 |
|-------------------------------------|-----------------|
| Maximum operating force (N)         | 0,6             |
| Min. Release force (N)              | 0,1             |
| Maximum total travel force (N)      | 1               |
| Max. permitted overtravel force (N) | 10              |
| Maximum rest position (mm)          | 10,8            |
| Operating position (mm)             | 9,9 $\pm$ 0,3   |
| Maximum differential travel (mm)    | 0,15            |
| Min. overtravel (mm)                | 0,5             |
| Ambient operating temperature (°C)  | -20 → +125      |
| Mechanical life (operations)        | 10 <sup>6</sup> |
| Contact gap (mm)                    | 0,4             |
| Weight (g)                          | 1,7             |

### Comments

\* see operating curves

\*\* for 2/3 of the overtravel

### Additional specifications

#### Components

##### Material

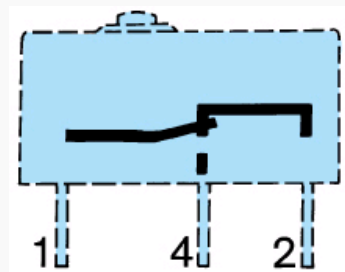
- Case : polyester UL 94 VO
- Button : glass-filled polyamide
- Contacts : nickel silver - gold alloy (dual-current)
- Terminals : cupro-nickel except W7A5 in brass

##### Levers

- Flat : stainless steel
- Roller : stainless steel, polyamide roller

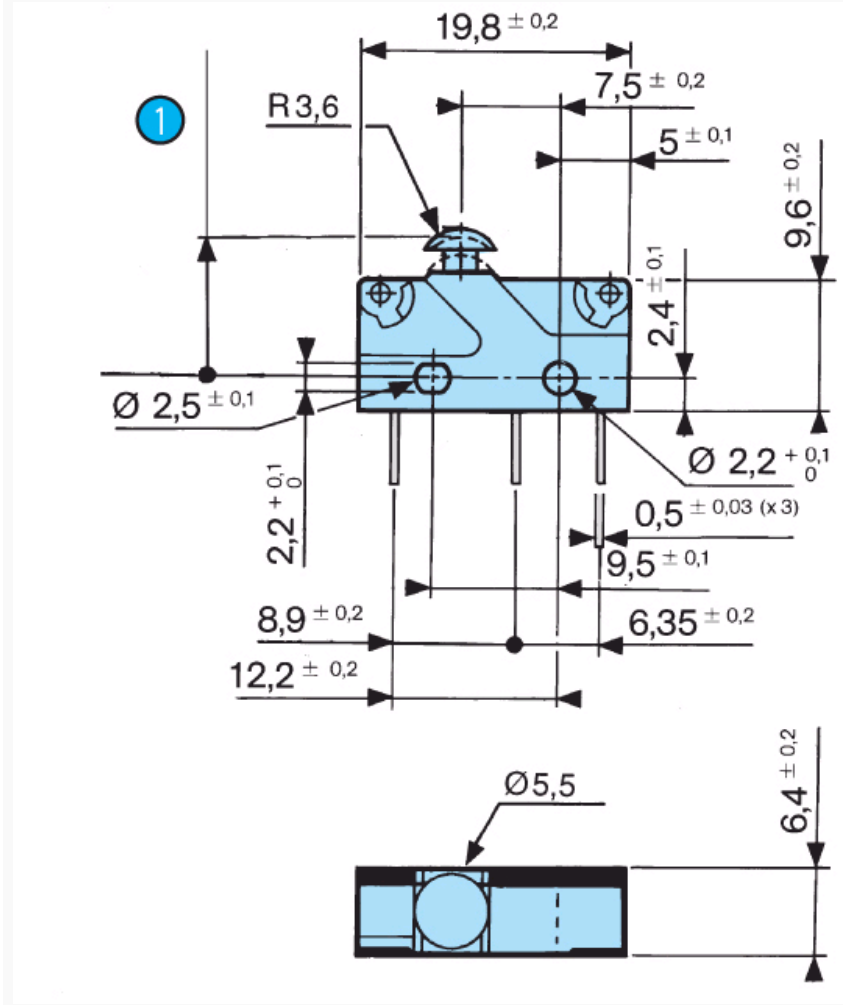
**Approvals** : NF - UL - cUL

### Principles



### Dimensions (mm)

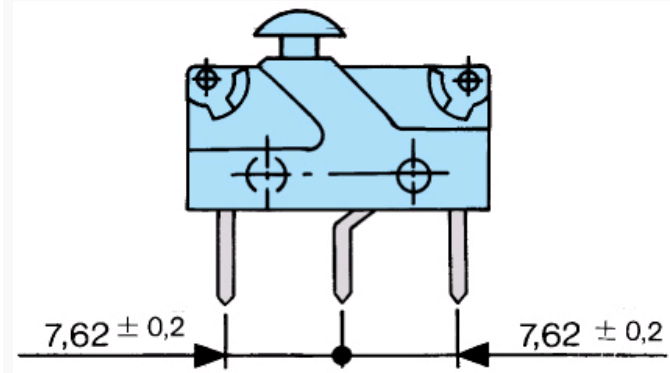
Product  
83170  
Asymmetrical version



| N° | Legend        |
|----|---------------|
| 1  | OL : 9.1 max. |

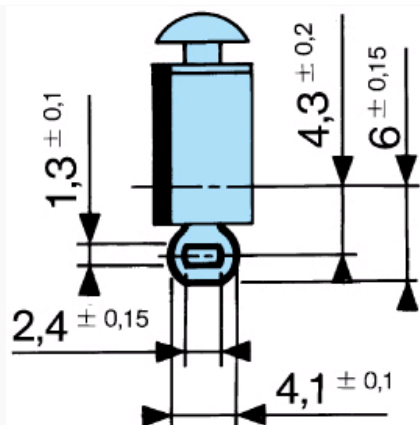
Dimensions (mm)

Product  
83170  
Symmetrical version



Dimensions (mm)

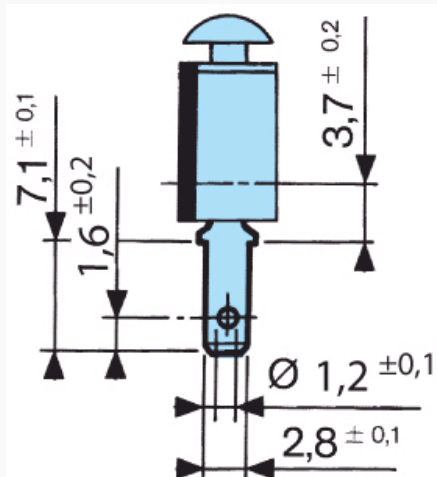
Connections  
W2



#### Dimensions (mm)

#### Connections

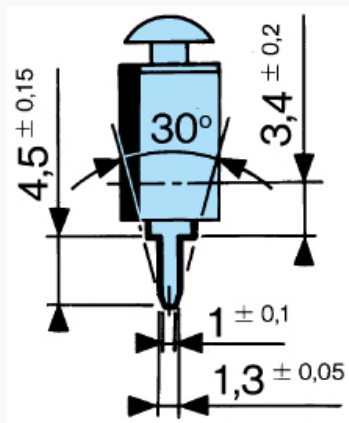
W7A5



#### Dimensions (mm)

#### Connections

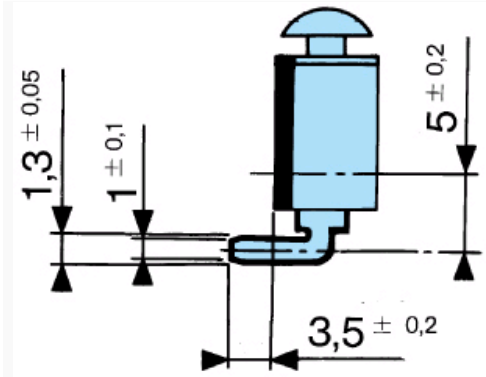
X1 - X1S



#### Dimensions (mm)

#### Connections

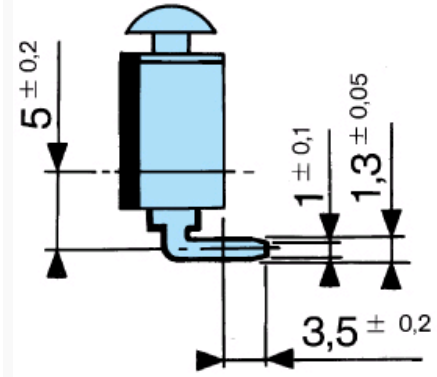
X2 - X2S



Dimensions (mm)

Connections

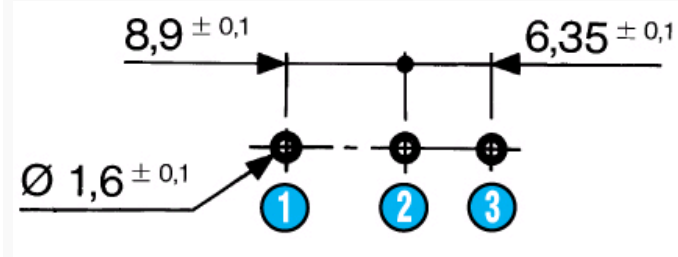
X3 - X3S



Dimensions (mm)

Drilling

Printed circuit board mounting  
Asymmetrical X1 - X2 - X3

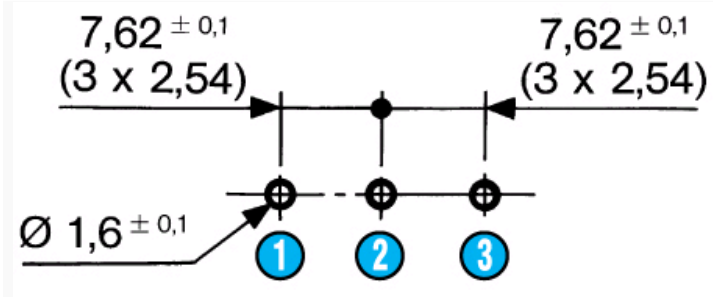


| N° | Legend |
|----|--------|
| 1  | 1.C    |
| 2  | 4.NO   |
| 3  | 2.NC   |

Dimensions (mm)

Drilling

Printed circuit board mounting  
Symmetrical X1 - X2 - X3

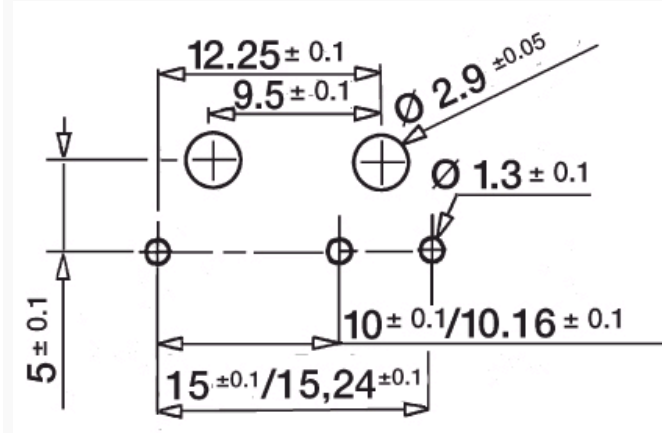


| N° | Legend |
|----|--------|
| 1  | 1.N    |
| 2  | 4.NO   |
| 3  | 2.NC   |

Dimensions (mm)

Drilling

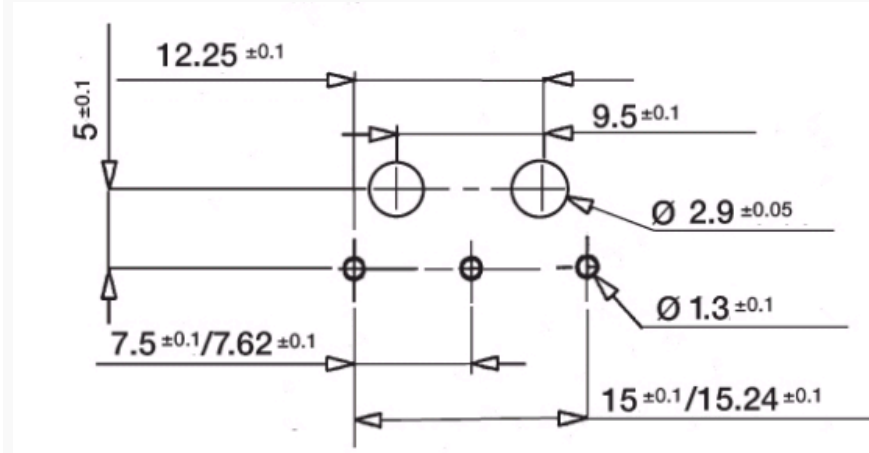
Mounting on a printed circuit board with fixing pins  
Asymmetrical



Dimensions (mm)

Drilling

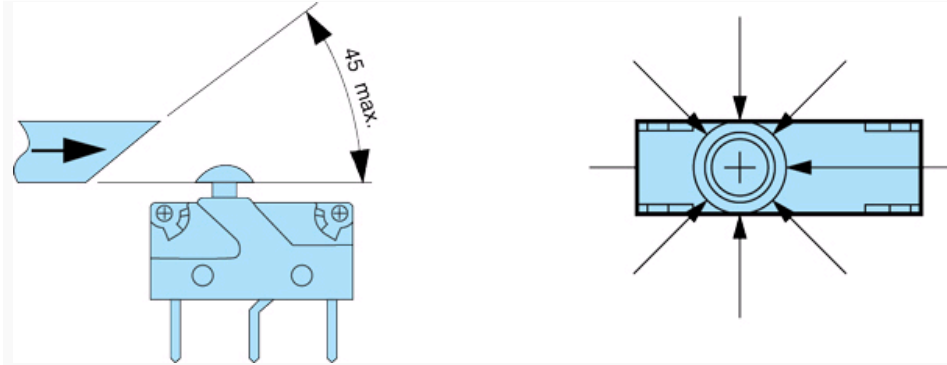
Mounting on a printed circuit board with fixing pins  
Symmetrical



Dimensions (mm)

Drilling

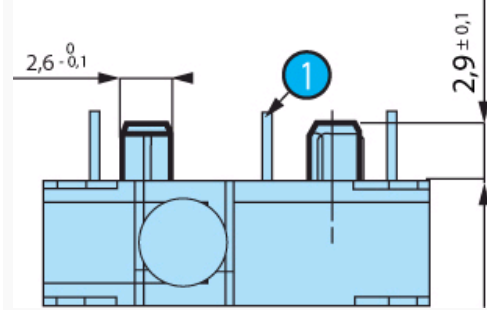
Recommendations for operation from the side



Dimensions (mm)

Drilling

Fixing pins

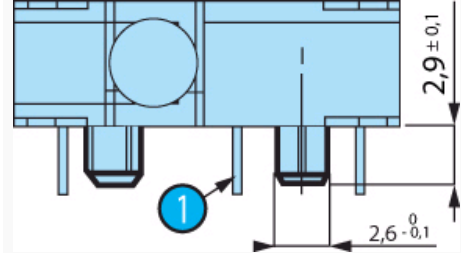


| N° | Legend                   |
|----|--------------------------|
| 1  | Output on unit side : X2 |

Dimensions (mm)

Drilling

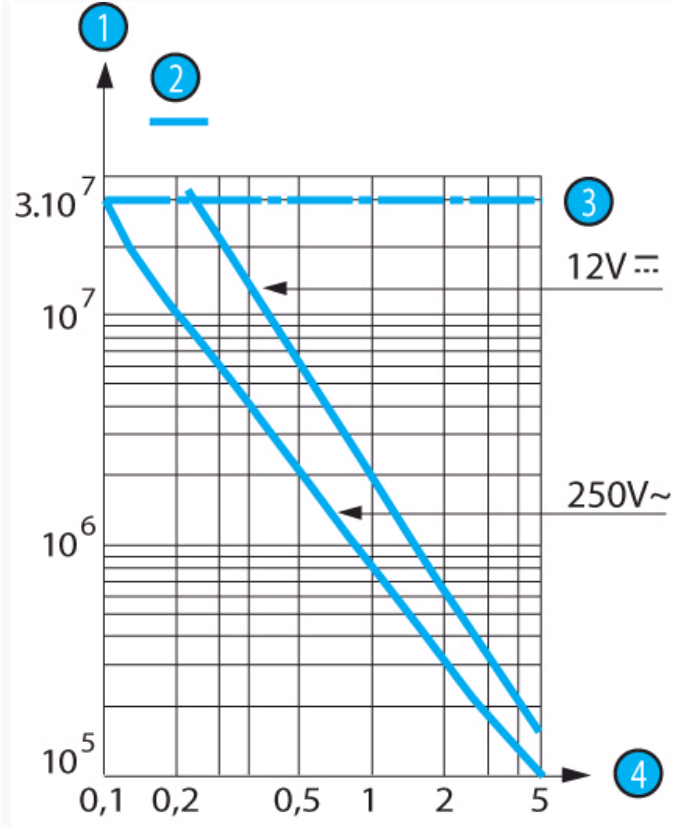
Fixing pins



| N° | Legend                    |
|----|---------------------------|
| 1  | Output on cover side : X3 |

Curves

Operating curve for types 83 170 8 / 83 170 9



Models 83 170 8 and 83 170 9 are designed to operate equally well on dual-current (1 mA 4 V minimum) or medium-current (5 A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life.

| N° | Legend                |
|----|-----------------------|
| ①  | Number of cycles      |
| ②  | Resistive circuit     |
| ③  | Mechanical life limit |
| ④  | Current in Amps       |

Other information

Mounting - Operation

See basic technical concepts

Product adaptations



- Special connections

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[831709C7.MB](#) [831709C2.BL](#) [831709C2.EL](#) [831709B1.0](#) [831709B2.0](#) [831709C1.AL](#) [831709C1.BL](#) [831709C1.CL](#)  
[831709C1.79250083L](#) [831709C3.AL](#) [831709C3.FR](#) [831709C4.0](#) [831709C7.0](#) [831709C8.0](#) [831709A1.BL](#)  
[831709A2.0](#) [831709B2.BL](#) [831709C2.9785.30](#) [831709C2.CL](#) [831709C2.MB](#) [831709C3.0](#) [831709C2.CR](#)  
[831709C2.DL](#) [831709C2.ER](#) [831709C2.FL](#) [831709C5.0](#) [831709A1.0](#)