



## V4 83170 Dual-current 831708 Part number 83170805



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

### Part numbers

|          | Type                | Function       | Connections |
|----------|---------------------|----------------|-------------|
| 83170805 | Dual-current 831708 | I (changeover) | W7A5        |

### Specifications

#### Electrical characteristics

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

#### Mechanical characteristics

|                                     |                 |
|-------------------------------------|-----------------|
| Maximum operating force (N)         | 1,5             |
| Min. Release force (N)              | 0,3             |
| Maximum total travel force (N)      | 1,8             |
| Max. permitted overtravel force (N) | 10              |
| Maximum rest position (mm)          | 9,2             |
| Operating position (mm)             | 8,4 $\pm$ 0,3   |
| Max. 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             |

### Additional specifications

#### Components

##### Material

- Case : polyester UL 94 VO
- Button : Glass-filled polyamide
- Contacts : AgNi, gold-plated AgNi (dual-current)
- Terminals : cupro-nickel (except W7A5 in brass)

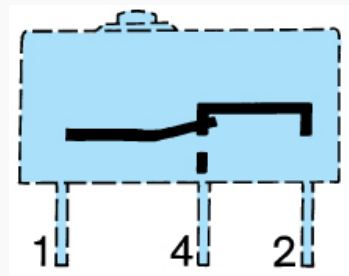
##### Levers

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

##### Approvals

NF - UL - cUL

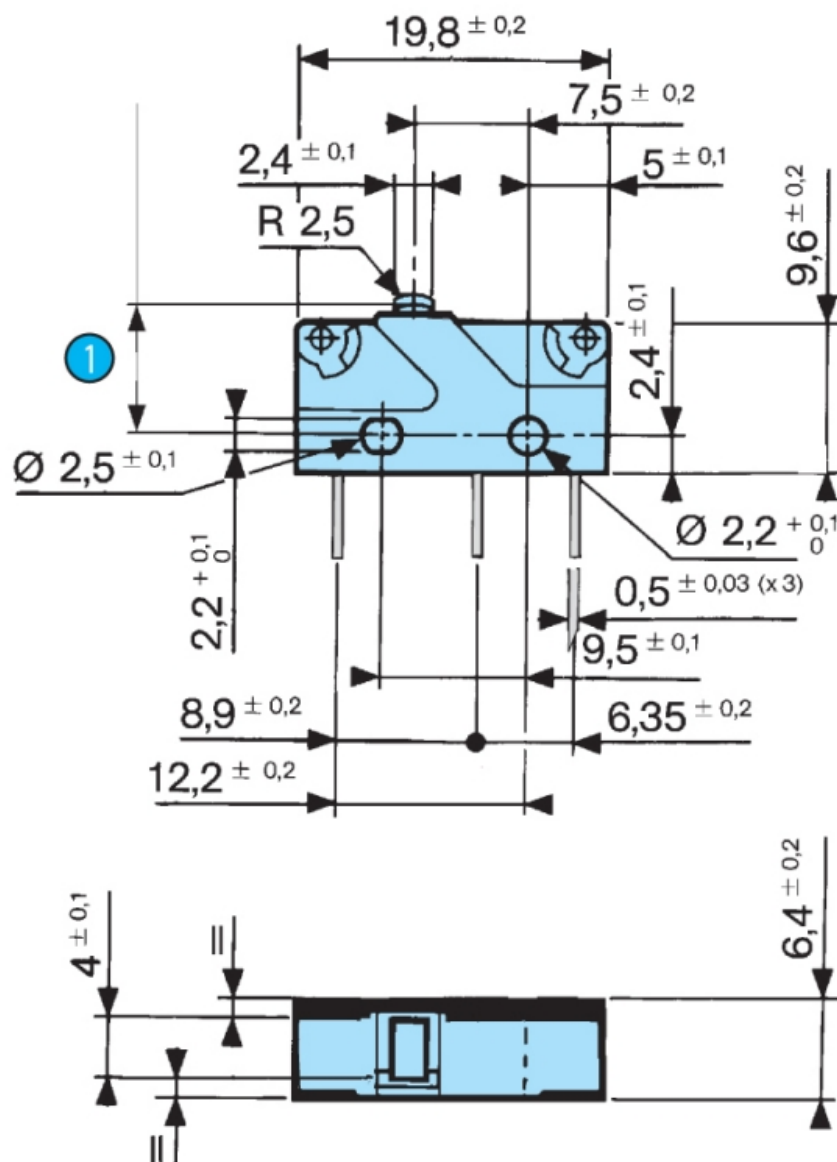
### Principles



### Dimensions (mm)

#### Product

83170  
Asymmetrical version

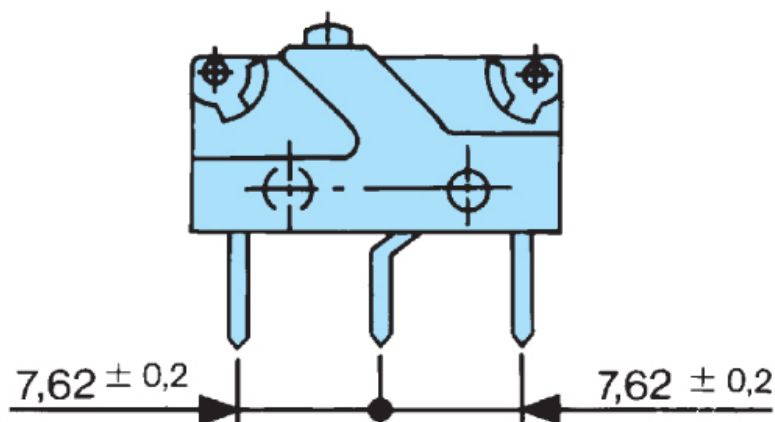


| N° | Legend   |
|----|----------|
| ①  | OL = 7.6 |

#### Dimensions (mm)

#### Product

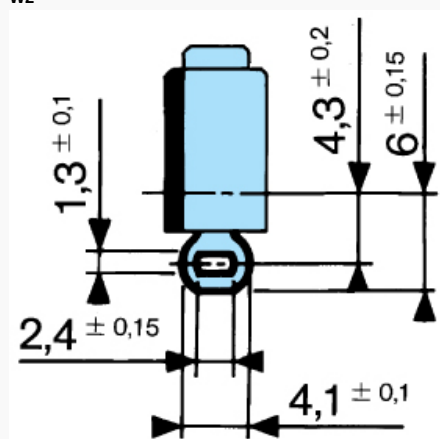
83170 Symmetrical version



## Dimensions (mm)

## Connections

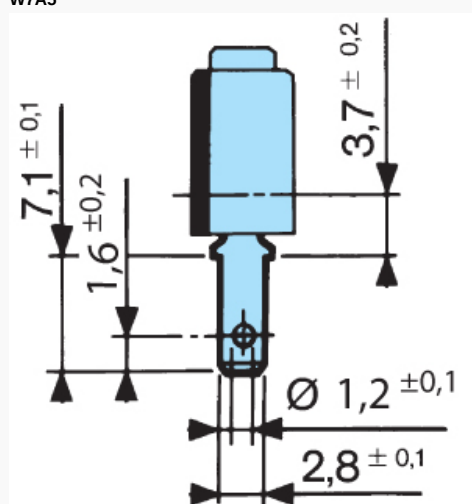
W2



## Dimensions (mm)

## Connections

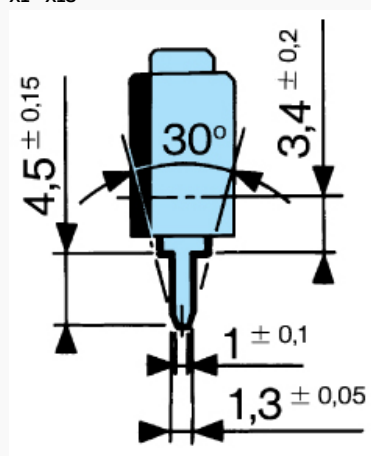
W7A5



## Dimensions (mm)

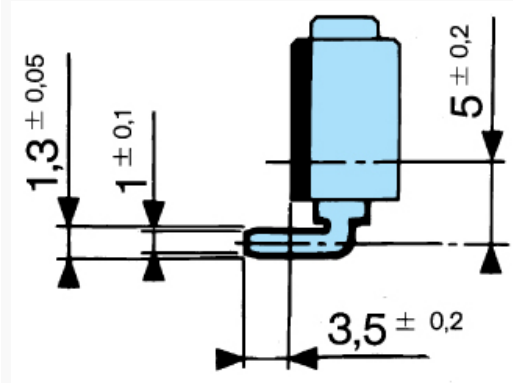
## Connections

X1 - X1S



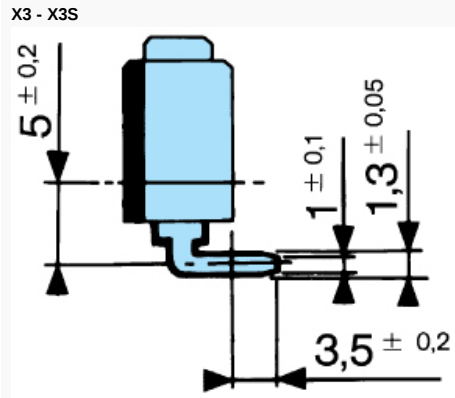
## Dimensions (mm)

## Connections



Dimensions (mm)

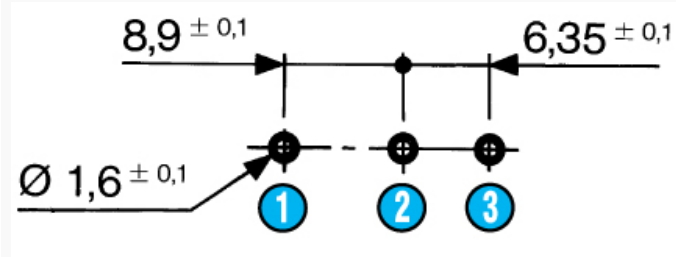
Connections



Dimensions (mm)

Drilling

Printed circuit board mounting  
Asymmetrical X1 - X2 - X3

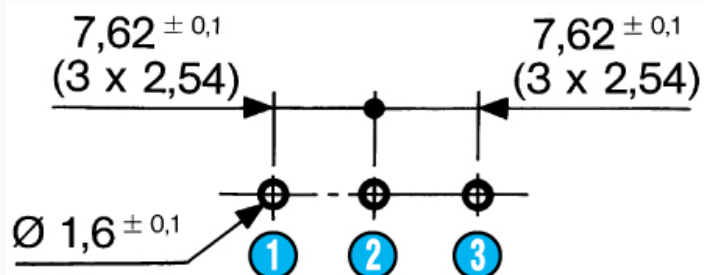


| N° | Legend |
|----|--------|
| 1  | 1.C    |
| 2  | 4.NO   |
| 3  | 2.NC   |

Dimensions (mm)

Drilling

Printed circuit board mounting  
Symmetrical X1S - X2S - X3S

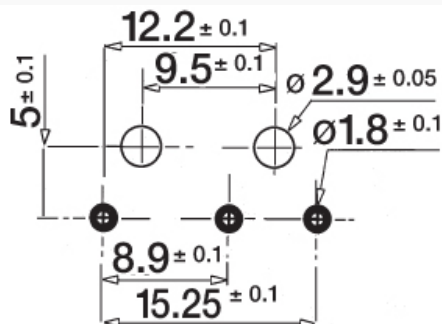


| N° | Legend |
|----|--------|
| 1  | 1.C    |
| 2  | 4.NO   |
| 3  | 2.NC   |

#### Dimensions (mm)

##### Drilling

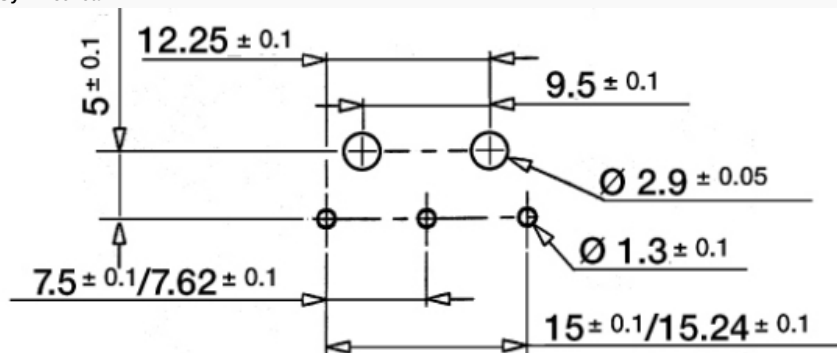
Mounting on a printed circuit board with fixing pins  
Asymmetrical



#### Dimensions (mm)

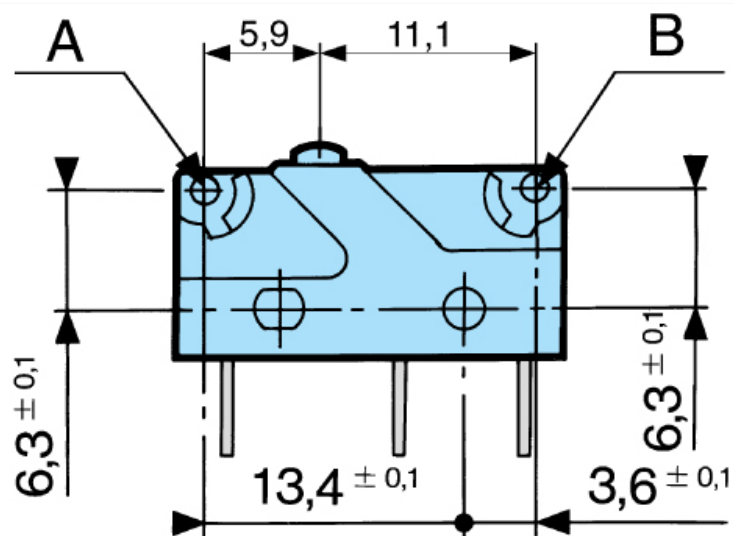
##### Drilling

Mounting on a printed circuit board with fixing pins  
Symmetrical



#### Dimensions (mm)

##### Actuator mounting positions

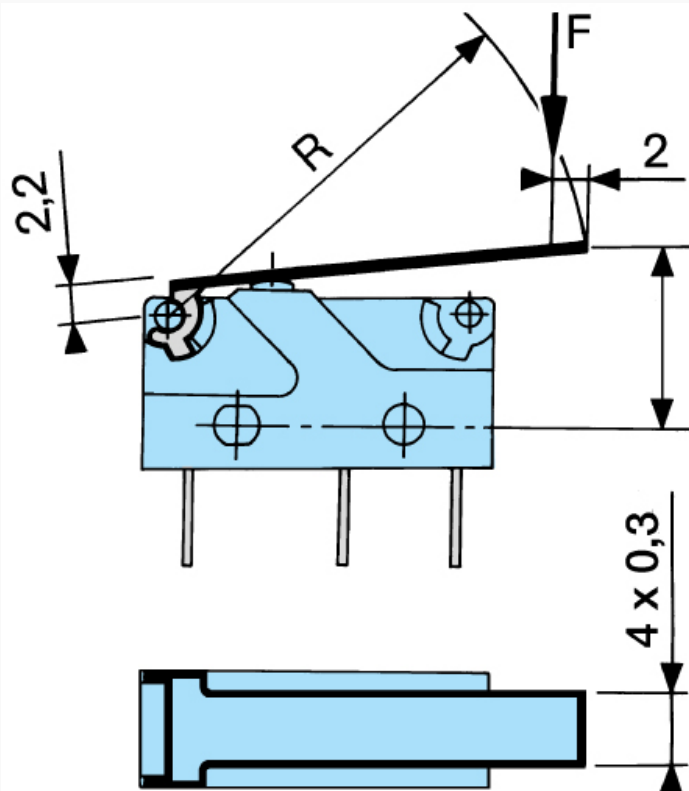


Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

#### Dimensions (mm)

#### Actuators

170A

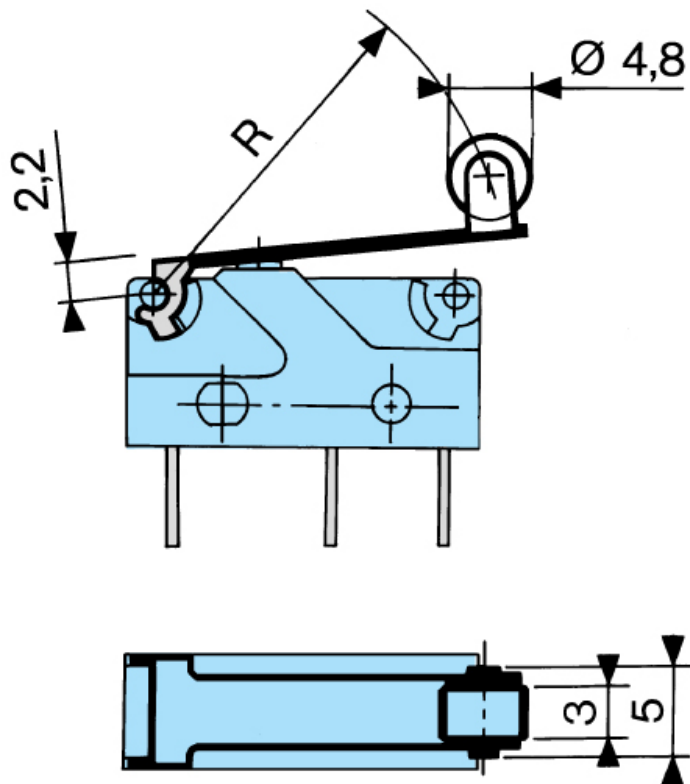


Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

#### Dimensions (mm)

#### Actuators

170E

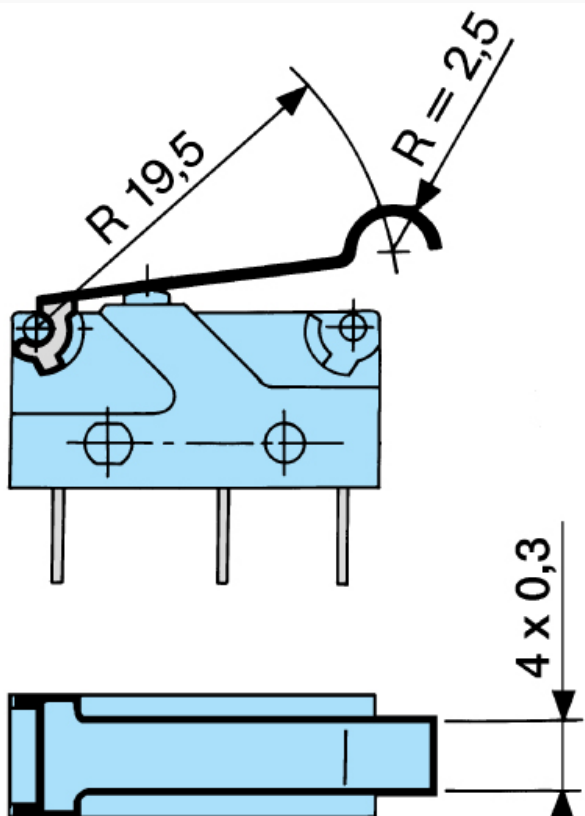


Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

#### Dimensions (mm)

#### Actuators

170F

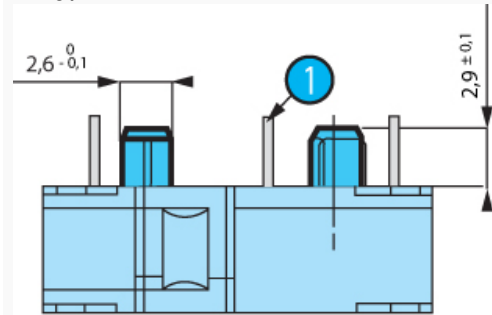


Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

Dimensions (mm)

Actuators

Fixing pins



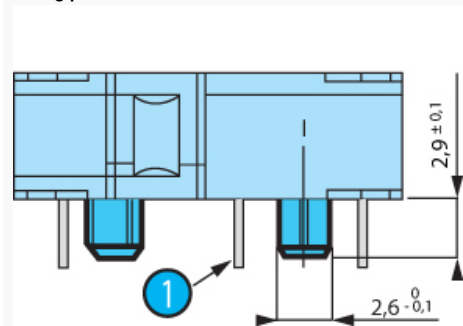
Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

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

Dimensions (mm)

Actuators

Fixing pins



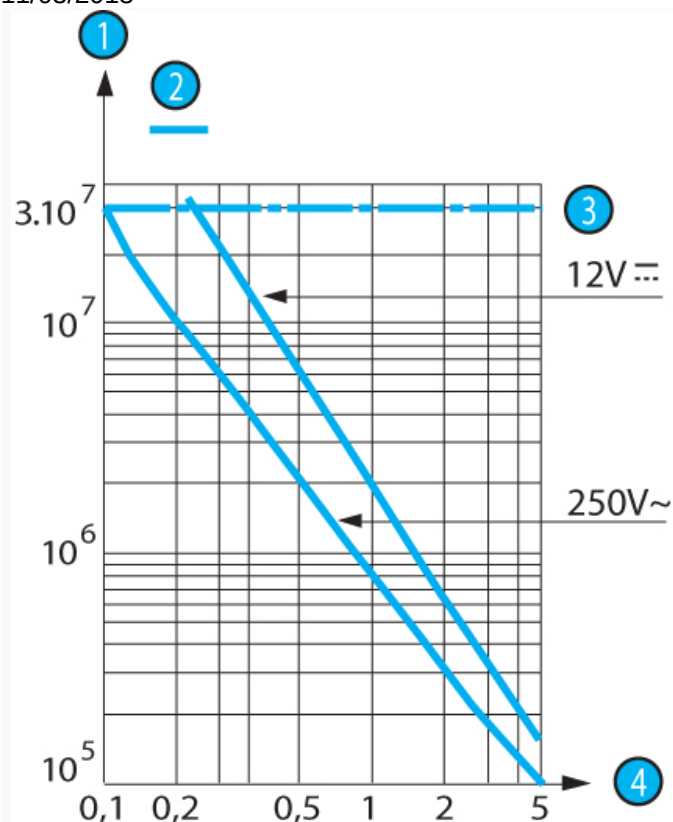
Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

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

Curves

Operating curve for types 831708 / 831709





Models 831708 and 831709 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       |

## Connections

### Actuators and fixing positions

| Part numbers for standard actuators | 79253327                                                                            | 79253326                                                                            | 79253328                                                                            | 79218454                                                                            | 79253329                                                                            |
|-------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Actuators                           | Flat 170A R18.3                                                                     | Flat 170A R24                                                                       | Flat 170A R41                                                                       | Roller 170E R20                                                                     | Dummy roller 170F                                                                   |
| Fixing positions                    |  |  |  |  |  |
| Coefficient                         | A B                                                                                 | A B                                                                                 | A B                                                                                 | A B                                                                                 | A B                                                                                 |
| Tripping point                      | 3 1.5                                                                               | 4 2                                                                                 | 7 3.5                                                                               | 3 1.5                                                                               | 3 1.5                                                                               |
|                                     | 10 $\pm 1.4$ 9.2 $\pm 0.9$                                                          | 10.7 $\pm 1.7$ 9.6 $\pm 1$                                                          | 12.7 $\pm 1$ 10.6 $\pm 1.4$                                                         | 15.5 $\pm 1.4$ 14.5 $\pm 0.9$                                                       | 12.9 $\pm 1.3$ 11.9 $\pm 1.3$                                                       |
| Levers                              | Screw 170D                                                                          | Transverse roller 170EL                                                             |                                                                                     |                                                                                     |                                                                                     |
|                                     |  |  |                                                                                     |                                                                                     |                                                                                     |

Characteristics available on request

## Other information

### Mounting - Operation

See basic technical concepts

## Product adaptations



- Special levers
- Special connections

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
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- Входной контроль качества.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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