## MINIATURE MICROSWITCHES - POSITIVE BREAK

## 831607

Coil spring snap-action mechanism with wiping contacts
> Positive opening action according to IEC 60947-5-1 Annex K
> Ratings from $10 \mathrm{~mA} 4 \mathrm{~V}=$-- to 6 A 250 V ~

## > Very long life

> Extended range of terminals
> cURus approved
Choice of actuators: stainless steel or plastic


Main specifications


## Additional specifications

- Case, Button: PBT GF (UL 94-V0 / GWFI $960^{\circ} \mathrm{C}$ )
- Cover: PC (UL 94-V0 / GWFI $850^{\circ} \mathrm{C}$ ), transparent
- Contacts: silver alloy, gold-plated silver alloy (dual-current)
- Terminals: brass (except W2/X: copper nickel), silver plated common
- Levers: stainless steel or polyamide, polyamide roller
- Degree of protection: IP40 (mechanism)
- Recommended actuating speed: $0.1 \mathrm{~mm} / \mathrm{s}$ to $0.5 \mathrm{~m} / \mathrm{s}$
- Rated insulation voltage Ui: 250 V
- Impulse withstand voltage Uimp: 4 kV



## Product adaptations

## Special levers: special shapes and lengths

> Special connections : angled, screw with clamp (W5), full wiring with custom connector....
, Adjustable fixing by metal threaded barrel (SP9627)
> Variant for irradiated environment

## Principles

Single break snap-action switch with positive opening action on NC contacts (1-2) according to IEC 60947-5-1 Annex K

Changeover - SPDT (form C)


Normally closed - SPST-NC (form B)


## Curves

## Electrical life

- Resistive load: 250 V ~ $6 \mathrm{~A}: 10^{5}$ cycles
- Inductive load (IEC 60947-5-1) : AC15: $250 \mathrm{~V} \sim 6 \mathrm{~A}: 0.3 \times 10^{5}$ cycles

$$
\begin{array}{r}
\mathrm{DC} 13: 24 \mathrm{~V}=20 \mathrm{WL} / \mathrm{R}=40 \mathrm{~ms}: 3 \times 10^{5} \text { cycles } \\
120 \mathrm{~V}=-\mathrm{W} / \mathrm{W}=40 \mathrm{~ms}: 5 \times 10^{5} \text { cycles }
\end{array}
$$

* Dual-current models are designed to operate equally well on low current ( 10 mA 4 V minimum recommended) or medium-current ( 6 A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life


## Dimensions

## Product

831607

(1) Total travel position = 13.2 max.

## Connections

W2 solder


X1 for PCB, straight output


W3 quick-connect $6.3 \times 0.8$


X2 for PCB, rear output


W6 quick-connect 4.8x0.5


X3 for PCB, front output


## Actuator mounting position



## Actuators

153AX flat


153EX roller


## 153FX dummy roller



Actuators and mounting accessories

| Part numbers for standard actuators |  | 79211670* | 79211672* | 79211668* |
| :---: | :---: | :---: | :---: | :---: |
| Actuators |  | Flat 153AX R16.2 | Roller 153EX R15.8 | Dummy roller 153FX R24.3 |
|  |  |  | $\sqrt{0}$ | $\checkmark$ - |
| Operating force - max. | N | 4 | 4 | 2.4 |
| Release force - min. | N | 1 | 1 | 0.9 |
| Min. positive opening force | N | 18 | 18 | 11 |
| Maximum rest position | mm | 16.2 | 21.3 | 21.8 |
| Operating position | mm | 15.3 *0,3 | $20.5 \pm 0.45$ | $20.3 \pm 0.6$ |
| Positive opening position | mm | 14 | 19.2 | 18 |
| Maximum total travel position | mm | 13.9 | 19.1 | 17.6 |

* We recommend that levers are mounted in our factories. See preferred part numbers in table below.

For unmounted supply, please also order associated pin 79210424.

| Part numbers for standard <br> actuators | $79211694^{*}$ |
| :--- | :--- |



831607 microswitches with referenced actuators

| Actuators | 153AX R16.2 | 153EX R15.8 | 153FX R24.3 |  |
| :--- | :---: | :---: | :---: | :---: |
|  |  | 79211670 | 79211672 | 79211668 |
|  | I W2 | $\bullet$ | 83160789 | $\bullet$ |
| Standard | IW3 | $\bullet$ | 83160710 | $\bullet$ |
|  | I X3 | $\bullet$ | $\bullet$ | $\bullet$ |
|  | R W2 | $\bullet$ | 83160787 | $\bullet$ |
|  | R W3 | $\bullet$ | 83160711 | 83160713 |
|  | R X3 | $\bullet$ | 83160714 | $\bullet$ |

## Installation recommendations

See "Basic technical concepts"

## How to order

Use the 8 digit part numbers when they are defined
Other cases, precise: Type of microswitch - Function - Connection - Contact* - Actuator* - Adaptation*

* if needed

Example: 831607 R W3 DORE 153AX R16.2

## Examples of special adaptations



Metal plunger and threaded barrel for heavy duty and precise setting (SP9627)

## Warning

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