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 mA 4 V— to 6 A 250 V \sim
- > Very long life
- > Extended range of terminals

Main specifications

- > cURus approved
- > Choice of actuators: stainless steel or plastic



Positive break 831607 Standard Dual-current (DORE) Function Connections I (changeover) 83160702 83160796 W2 (solder) W3 (QC 6.3x0.8) 83160704 83160786 I (changeover) I (changeover) W6 (QC 4.8x0.5) 83160706 I (changeover) X1 (PCB, straight) X2 (PCB, rear) I (changeover) 83160708 I (changeover) X3 (PCB, front) R (normally closed) W2 (solder) 83160701 83160794 W3 (QC 6.3x0.8) 83160703 83160797 R (normally closed) R (normally closed) W6 (QC 4.8x0.5) 83160705 83160732 R (normally closed) X2 (PCB, rear) • R (normally closed) 83160707 X3 (PCB, front) • Positive opening action ()()Rating nominal / 250 V \sim (A) 6 6* Thermal current (Ith) (A) 10 10 Maximum operating force (N) 4 4 1.5 Min. Release force (N) 1.5 Minimum positive opening force (N) 18 18 Max. Allowable overtravel force (N) 200 200 Rest position max. (mm) 15.7 15.7 14.8±0.3 14.8±0.3 Operating position (mm) Positive opening position (mm) 13.5 13.5 Maximum differential travel (mm) 0.3 0.3 Min. overtravel (mm) 1.3 1.3 Ambient operating temperature (°C) -40 → +85 -40 → +85 Mechanical life (operations) 107 107 Contact gap (mm) 1.2 1.2 Weight (g) 7 7

Additional specifications

- Case, Button: PBT GF (UL 94-V0 / GWFI 960 °C)

- Cover: PC (UL 94-V0 / GWFI 850 °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 mm/s to 0.5 m/s
- Rated insulation voltage Ui: 250 V
- Impulse withstand voltage Uimp: 4 kV
- Certification marks: Rus (CE

Product adaptations

- > Special levers : special shapes and lengths
- > Special connections : angled, screw with clamp (W5), full wiring with custom connector....

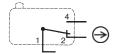
- > Adjustable fixing by metal threaded barrel (SP9627) > Variant for irradiated environment

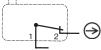




Principles

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)





Electrical life

- Resistive load: 250 V ~ 6 A: 105 cycles

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

DC13: 24 V- 20 W L/R = 40 ms: 3 x 10⁵ cycles

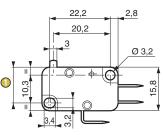
120 V 20W L/R = 40 ms: 5 x 10⁵ cycles

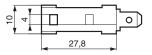
* Dual-current models are designed to operate equally well on low current (10 mA 4 V minimum recommended) or medium-current (6 A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life

Dimensions

Product

831607

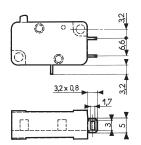




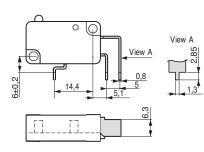
Total travel position = 13.2 max.

Connections

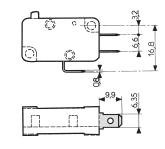
W2 solder



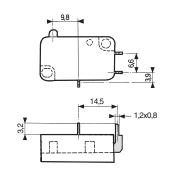
X1 for PCB, straight output



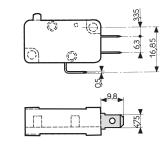
W3 quick-connect 6.3 x 0.8



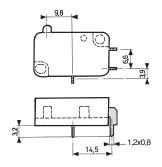
X2 for PCB, rear output



W6 quick-connect 4.8x0.5



X3 for PCB, front output

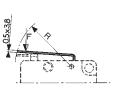


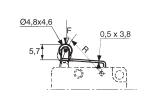
Actuator mounting position



Actuators

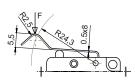
153AX flat





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
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 ±0,45	20.3 ±0,6
Positive opening position	mm	14	19.2	18
Maximum total travel position	mm	13.9	19.1	17.6

For unmounted supply, please also order associated pin 79210424.

Part numbers for standard

actuators

Actuators

79211694*

Two-pole 153A2XB R 24**

Flexible with roller 153B**

Plastic 153V**

** Consult us







831607 microswitches with referenced actuators

	Actuators	153AX R16.2	153EX R15.8	153FX R24.3
		79211670	79211672	79211668
831607	I W2	•	83160789	•
Standard	I W3	•	83160710	•
I X3	I X3	•	•	•
	RW2	•	83160787	•
	R W3	•	83160711	83160713
	R X3	•	83160714	•



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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 7AS12

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