

SUB-SUBMINIATURE MICROSWITCHES - STANDARD

V5D - 83194

- › Coil spring snap-action mechanism with wiping contacts
- › Very small size
- › Ratings from 1 mA 4 V_{DC} to 5 A 250 V_{AC}
- › Low operating force
- › cURus and CCC approved
- › Very long mechanical life
- › Auxiliary actuators: stainless steel or plastic, pre-assembled or retrofittable



Main specifications

		Standard 831940	Dual-current 831948
Function	Connections		
I (changeover)	W2 (solder)		
Electrical characteristics		83194001	83194801
Rating nominal / 250 V AC (A)		5	5*
Rating thermal / 250 V AC (A)		8.5	8.5
Mechanical characteristics			
Max. operating force (N)		1.4	1.4
Min. Release force (N)		0.25	0.25
Max. Allowable overtravel force (N)		10	10
Max. rest position (mm)		8.8	8.8
Operating position (mm)		8.1+0.3/-0.2	8.1+0.3/-0.2
Max. differential travel (mm)		0.13	0.13
Min. overtravel (mm)		0.25	0.25
Ambient operating temperature (°C)		-40 → +85	-40 → +85
Mechanical life (operations)		10 ⁷	10 ⁷
Contact gap (mm)		0.3	0.3
Weight (g)		1	1

Additional specifications

- Case, Button: PA66 GF (UL 94-V0 / GWFI 960 °C / GWIT 775 °C)
- Moving blade: beryllium copper
- Contacts: gold-plated silver nickel
- Terminals: gold-plated brass
- Levers: stainless steel or PARA GF

- Degree of protection: IP40 (mechanism)
- Recommended actuating speed: 0.1 mm/s to 0.3 m/s
- Certification marks: cULus ENEC

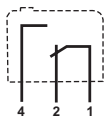
Product adaptations



- › Special actuators: stainless steel or plastic, special shapes and lengths
- › Normally closed (R) or normally open (C) SPST versions
- › Connections: for PCB, quick-connect 2.8 x 0.5, special connections
- › High operating temperature: +110 °C
- › ENEC approval

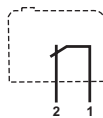
Principles

Single break snap-action switch
Changeover - SPDT (form C)



** Consult us

Normally closed - SPST-NC (form B)**

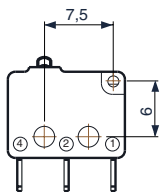


Normally open - SPST-NO (form A)**





Other shapes and dimensions:
consult us

Actuator mounting position



Actuators and mounting accessories

Actuators		Dummy roller stainless steel 194F R17	Dummy roller plastic 194FP R17
			
Operating force - max.	N	0.7	0.7
Release force - min.	N	0.09	0.09
Rest position - max.	mm	11.7	11.7
Operating position	mm	10.3 $\pm 0.8/-0.55$	10.3 $\pm 0.8/-0.55$
Total travel position - max.	mm	9.3	9.3
Differential travel - max.	mm	0.45	0.45
Mechanical life	operations	2.10 ⁶	10 ⁶

V5D-83194 microswitches with referenced actuators

	Actuators	194F R17	194FP R17
831940	I W2	83194015	83194014
831948	I W2	83194813	83194814

Installation recommendations

See "Basic technical concepts"

For use above 150 V: to ensure protection against electric shock after installation in the application, any parts inserted in the mounting holes shall be insulated.

How to order

Use the 8 digit part numbers when they are defined

Other cases, precise: Type of microswitch - Function - Connection - Actuator*

* if needed

Example: 831940 C W2 194FP R17

Standard product

Product made to order



Contact us

Warning:

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