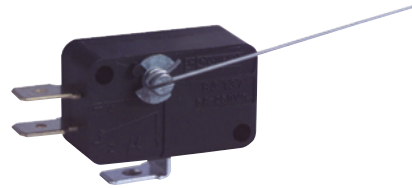


MINIATURE MICROSWITCHES - ROTARY ACTION

83137

- › Highly sensitive snap-action mechanism with rotary action
- › Operation by stainless steel wire, easily adaptable to the installation conditions
- › Very low operating torques
- › Ratings from 1 mA 4 V $\overline{\text{DC}}$ to 5 A 250 V \sim
- › Very long mechanical life
- › +125 °C max operating temperature



Main specifications

		Standard 831370		Increased torque 831375	
		With lever	Without lever	With lever	Without lever
Function	Connections	83137004	83137019	83137507	83137502
I (changeover)	W3 (QC 6.3 x 0.8)	83137003	83137017	●	●
I (changeover)	W2 (solder)	83137055	83137020	●	●
I (changeover)	W6 (QC 4.8 x 0.5)	83137008	83137028	●	●
R (normally closed)	W3 (QC 6.3 x 0.8)	●	83137027	●	●
R (normally closed)	W2 (solder)	●	●	●	●
R (normally closed)	W6 (QC 4.8 x 0.5)	83137006	83137026	83137517	83137503
C (normally open)	W3 (QC 6.3 x 0.8)	83137005	83137025	●	●
C (normally open)	W2 (solder)	●	●	●	●
C (normally open)	W6 (QC 4.8 x 0.5°)				
Electrical characteristics		5	5	5	5
Rating nominal / 250 V AC (A)		14	14	14	14
Rating thermal / 250 V AC (A)					
Mechanical characteristics		1.2	1.2	2	2
Max. Operating torque (mN.m)		0.1	0.1	0.1	0.1
Min. Release torque (mN.m)		26	26	26	26
Max Pretravel (°)		10 ± 4	10 ± 4	10 ± 4	10 ± 4
Differential travel (°)		12	12	12	12
Min. Overtravel (°)		-20 → +125	-20 → +125	-20 → +125	-20 → +125
Ambient operating temperature (°C)		10 ⁷	10 ⁷	10 ⁷	10 ⁷
Mechanical life (operations)		0.8	0.8	0.8	0.8
Contact gap (mm)		8.4	8.1	8.4	8.1
Weight (g)					

Additional specifications

- Case: PA66 GF (UL 94-V0 / GWFI 960 °C)
- Contacts: silver alloy (gold-plated silver alloy : on request)
- Terminals: brass (except W2: copper nickel), silver plated common
- Levers: stainless steel wire

- Degree of protection: IP40 (mechanism)
- Recommended min actuating speed: 1 °/s
- Protection against electric shock: wire lever has reinforced insulation for Ui 250V / Uimp 2,5kV / pollution 2
- Conformity / Certifications: on request /

Product adaptations

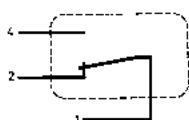


- › Special wire levers: special shapes and lengths
- › Specific angular setting of the lever
- › Lever supplied separately (length 100 mm: 70509034)
- › Other connections: screw+clamp (W5), angled terminals, ...
- › Low-current version with gold plated contacts for use from 1 to 100 mA at 4 to 30 V
- › Specific switching hysteresis : increased or reduced differential travel
- › High resistance to shock (SP2867)
- › cURus approved versions

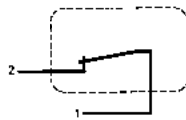
Principles

Single break snap-action switch

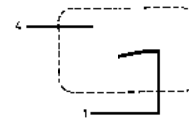
Changeover - SPDT (form C)



Normally closed - SPST-NC (form B)



Normally open - SPST-NO (form A)



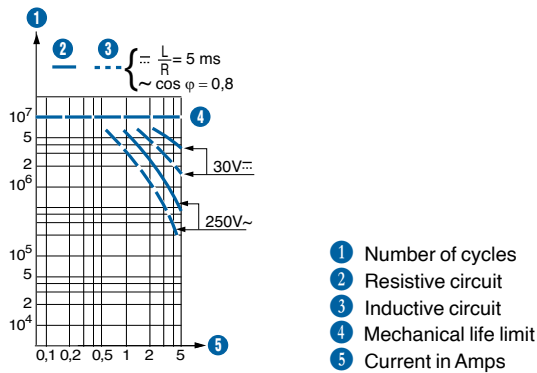
Standard product

Product made to order

● Contact us

Curves

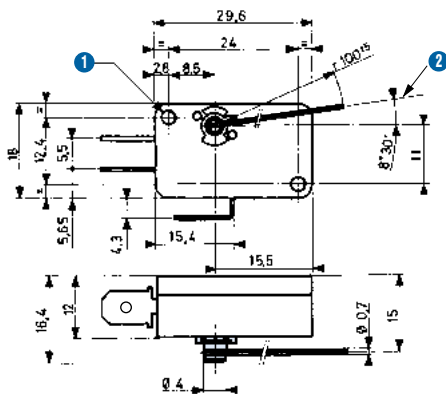
Operating curve for types 831370 - 831375



Dimensions

Product

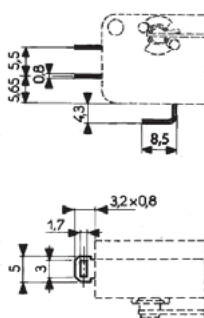
83137



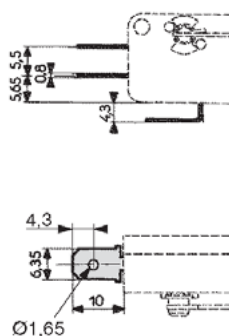
- 1 2 holes $\varnothing 3.2$
- 2 Rest position

Connections

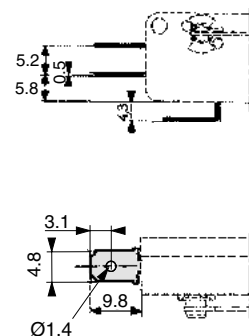
W2 solder



W3 quick-connect 6.3 x 0.8



W6 quick-connect 4.8 x 0.5



Installation recommendations

See “Basic technical concepts”.

For models supplied without lever: it is recommended to clamp the shaft after mounting the lever in order to secure the assembly

How to order

Use the 8 digit part numbers when they are defined

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

* if needed

Example: 831375 I W2 LVR UL

Examples of special adaptations



Customized wire lever

Warning:

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