

# 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<sub>DC</sub> to 5 A 250 V<sub>AC</sub>
- › Very long mechanical life
- › +125 °C max operating temperature



### Main specifications

	Standard 831370		Increased torque 831375	
	With lever (-)	Without lever (NOLVR)	With lever (-)	Without lever (NOLVR)
<b>Function</b>				
I (changeover)				
I (changeover)				
I (changeover)				
R (normally closed)				
R (normally closed)				
R (normally closed)				
C (normally open)				
C (normally open)				
C (normally open)				
<b>Electrical characteristics</b>				
Rating nominal / 250 V AC (A)	5	5	5	5
Rating thermal / 250 V AC (A)	14	14	14	14
<b>Mechanical characteristics</b>				
Max. Operating torque (mN.m)	1.2	1.2	2	2
Min. Release torque (mN.m)	0.1	0.1	0.1	0.1
Max Pretravel (°)	26	26	26	26
Differential travel (°)	10 <sup>±4</sup>	10 <sup>±4</sup>	10 <sup>±4</sup>	10 <sup>±4</sup>
Min. Overtravel (°)	12	12	12	12
Ambient operating temperature (°C)	-20 → +125	-20 → +125	-20 → +125	-20 → +125
Mechanical life (operations)	10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>	10 <sup>7</sup>
Contact gap (mm)	0.8	0.8	0.8	0.8
Weight (g)	8.4	8.1	8.4	8.1

### 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
- Certification marks:

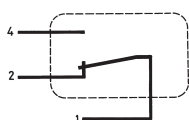
### Product adaptations



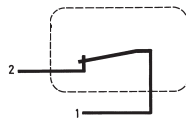
- › Special wire levers: special shapes and lengths
- › Specific angular setting of the lever
- › Lever supplied separately (length 100 mm: 70509034)
- › Other connections: screw+clamp (W5), angled terminals, ...
- › Low-current version with gold plated contacts for use from 1 to 100 mA at 4 to 30 V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

### Principles

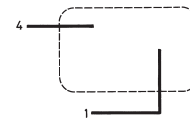
Single break snap-action switch  
Changeover - SPDT (form C)



Normally closed - SPST-NC (form B)



Normally open - SPST-NO (form A)



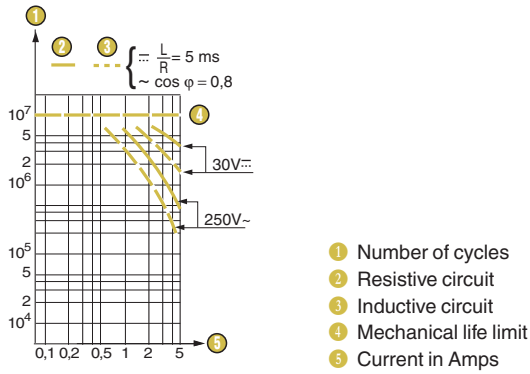
Standard product

Product made to order

Contact us

Curves

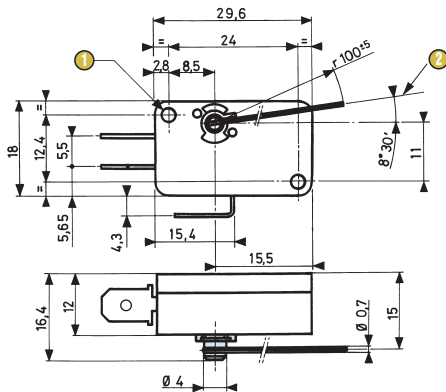
Operating curve for types 831370 - 831375



Dimensions

Product

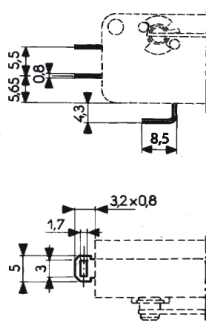
83137



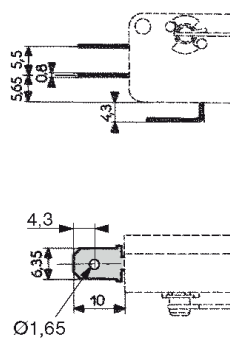
- ① 2 holes Ø 3.2
- ② Rest position

Connections

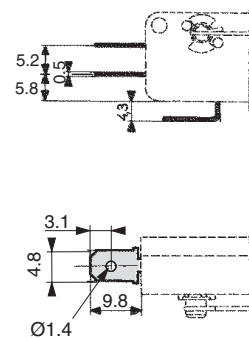
W2 solder



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 NOLVR UL

## Examples of special adaptations



Customized wire lever

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### Warning:

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