

Protected

→ 83 111



- Double break switching
- Rear-fixing via nut or clips
- Options for operation in stable positions
- Choice of actuators and fixing positions



Main specifications

		Rear-fixing with a nut 83 111 0	Rear-fixing with clips 83 111 5
Function	Connections		
I (changeover)	W1 - W2 - W3	•	•
R (normally closed)	W1 - W2 - W3	•	•
C (normally open)	W1 - W2 - W3	•	•
Electrical characteristics			
Rating nominal / 250 V AC (A)		5	5
Rating thermal / 250 V AC (A)		17.5	17.5
Mechanical characteristics			
Maximum operating force (N)		4	4
Min. Release force (N)		1	1
Tripping point (mm)		11.45 ± 0.2 - 0.25	11.45 ± 0.2 - 0.25
Min. overtravel (mm)		0.7	0.7
Mechanical life (operations)		10 ⁷	10 ⁷
Max. permitted overtravel force (N)		20	20
Rest position max. (mm)		-	-
Maximum differential travel (mm)		0.5 ^{+0.2}	0.5 ^{+0.2}
Ambient operating temperature (°C)		- 40 → +85	- 40 → +85
Contact gap (mm)		0.4 x 2	0.4 x 2
Weight (g)		8	8

Additional specifications

Components

Material

- Case : polyamide UL94V2
- Contacts : nickel silver

Levers

- Mild steel (zinc)
- Roller : polyamide
- Adjusting screws : self-retaining
- Plates : iridescent passivated mild steel (zinc)

NB : Fixing holes for these microswitches have metal ferrules.

Product adaptations



- Special levers
- Reinforced spring
- Special contacts
- Approvals : UL - cUL

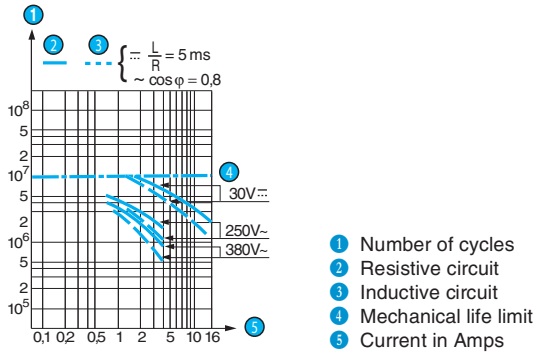
Principles

Double break changeover switch



Curves

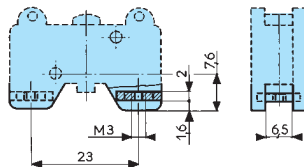
Operating curve for types 83 111 0 - 83 111 5



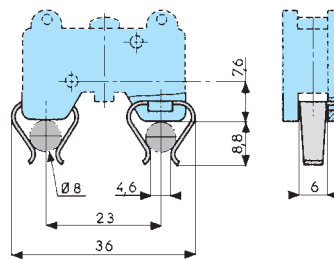
Dimensions

→ Product

83 111 0

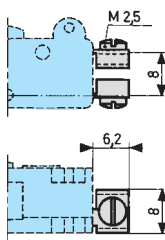


83 111 5

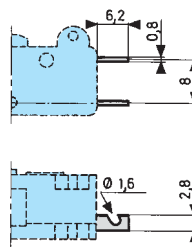


→ Connections

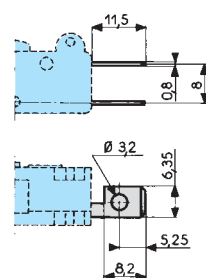
W1 screw



W2 solder

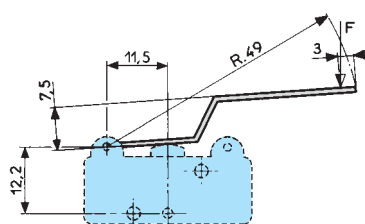


W3 for 6.35 mm clips



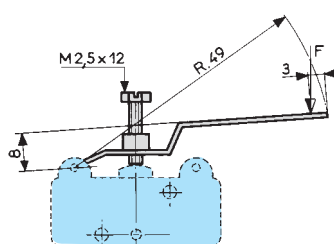
→ Actuators

A



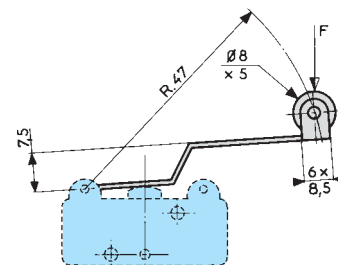
Lever cross-section 1 x 6.4 mm

B



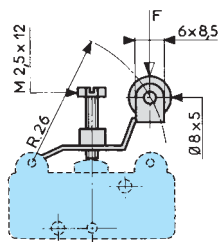
Lever cross-section 1 x 6.4 mm

E



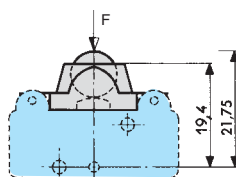
Lever cross-section 1 x 6.4 mm

Q

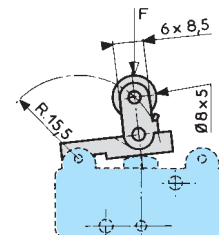


Lever cross-section 1 x 6.4 mm

B9



V3



Lever cross-section 1 x 6.4 mm

Actuators and fixing positions

Actuators and fixing positions

Actuators		A R49	B R47	E R47	Q	V3 R15.5	B9
Operating force - max.	N	1.2	1.2	1.2	2.8	4	4
Release force - min.	N	0.25	0.25	0.2	0.45	0.8	1
Pre-travel - max	mm	6.2	6.2	6.2	3.2	1.45	1.5
Differential travel	mm	2.1 ±0.9	2.1 ±0.9	2.1 ±0.9	1.05 ±0.4	0.5 ±0.2	0.5 ±0.2
Total travel max.	mm	7.5	8.4	7.5	4.5	1.9	1.9

Except where otherwise indicated, the flat and roller levers are mounted as shown in the dimensional drawings (mounted on the left)..

Other information

Mounting - Operation

See basic technical concepts