

Protected

→ 83 106

- Double break switching
- Options for operation in stable positions
- Choice of actuators and mounting accessories



Main specifications

	Standard 83 106 0	2 stable lever positions 83 106 4	2 stable plunger positions 83 106 7
Function			
I (changeover)	W3		
I (changeover)	W1 - W2		
R (normally closed)	W1 - W2 - W3		
C (normally open)	W1 - W2 - W3		
Electrical characteristics			
Rating nominal / 250 V AC (A)	5	5	5
Rating thermal / 250 V AC (A)	17.5	17.5	17.5
Mechanical characteristics			
Maximum operating force (N)	4	0.45	2
Min. Release force (N)	1	-	-
Tripping point (mm)	11.45 ^{+0.2 -0.25}	-	-
Min. overtravel (mm)	0.7	-	-
Mechanical life (operations)	10 ⁷	10 ⁶	10 ⁶
Max. permitted overtravel force (N)	20	-	-
Rest position max. (mm)	12.75	-	-
Differential travel (mm)	0.5 ^{+0.2}	-	-
Ambient operating temperature (°C)	-40 → +85	-40 → +85	-40 → +85
Contact gap (mm)	0.4 x 2	0.4 x 2	0.4 x 2
Weight (g)	8	9	8

Additional specifications

Components

Material

- Case : polyamide UL94V2 (83 106)
- 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
- High operating temperature: 125 °C
- Approvals : UL - cUL

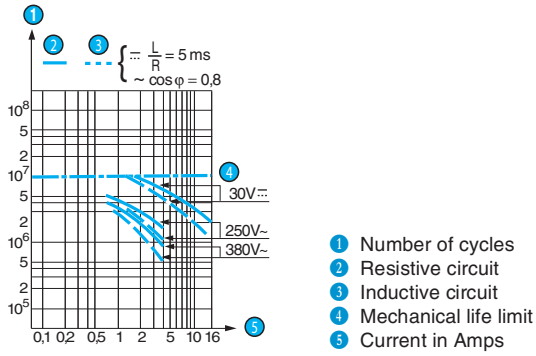
Principles

Double break changeover snap-action switch



Curves

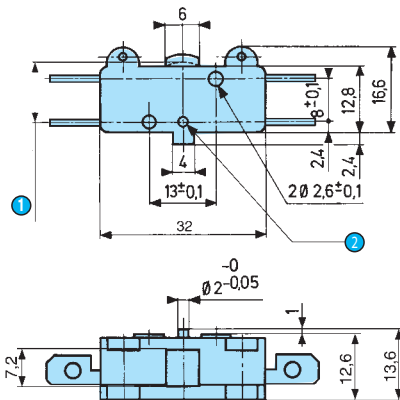
Operating curve for types 83 106 0 / 4 / 7



Dimensions

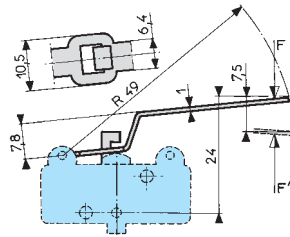
→ Product

83 106

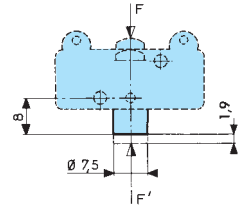


- ① OL = 10.65
- ② Ø 2^{+0.01 +0.65} Depth 1.2

83 106 4

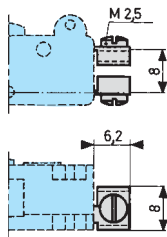


83 106 7

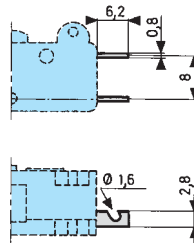


→ Connections

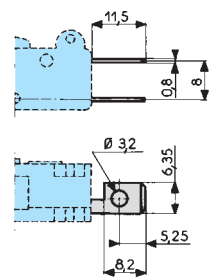
W1 screw



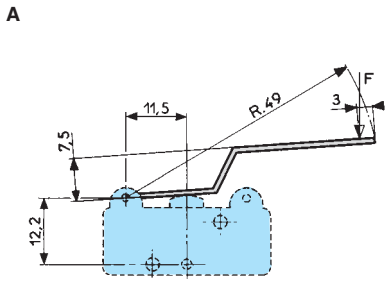
W2 solder



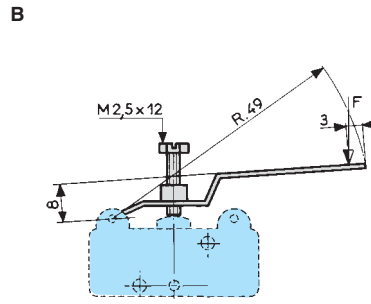
W3 for 6.35 mm clips



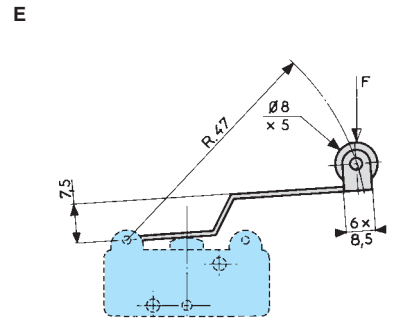
→ Actuators



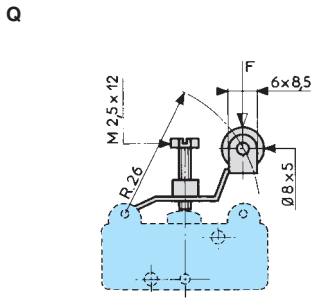
Lever cross-section 1 x 6.4 mm



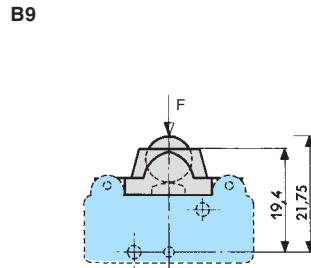
Lever cross-section 1 x 6.4 mm



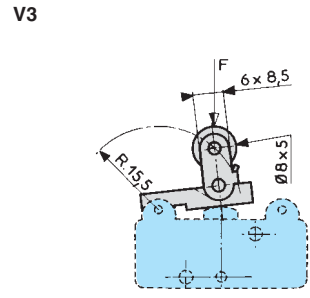
Lever cross-section 1 x 6.4 mm



Lever cross-section 1 x 6.4 mm



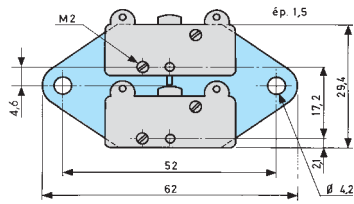
Lever cross-section 1 x 6.4 mm



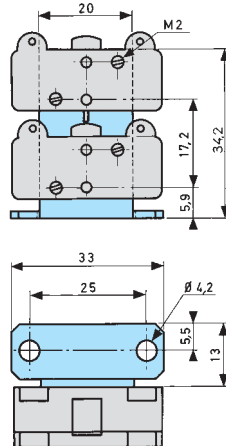
Lever cross-section 1 x 6.4 mm

→ Mounting accessories

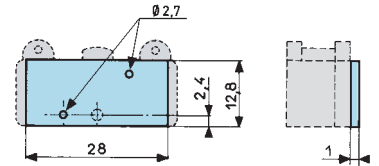
O2 2-pole side mounting plate



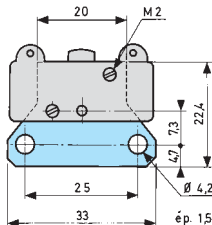
K2 2-pole vertical mounting plate



Y Side plate









H Horizontal single-pole mounting plate




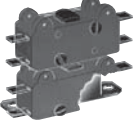


Unless indicated, the thickness of plates is 1.5 mm

Actuators and mounting accessories

Actuators		70500888	70500828	70500813	70500840	70500870	70500170
		AR49	BR49	ER47	Q	V3 R15.5	E9
							
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).

Mounting accessories		70500206	70500208	70500218	70500216
		Y Side plate	H Horizontal single-pole mounting plate	O2 2-pole side mounting plate	K2 2-pole vertical mounting plate
					

Screws: Length	14.5	70599106
	16	70599102
	27.5	70599110

Other information

Mounting - Operation

See basic technical concepts

To ensure protection against electric shock after installation in the application, please consult us when conductive parts are located less than 3mm from case/cover rear mating surfaces, opposite to button side.

Protected

→ 83 109

- Double break switching
- Front connections
- Options for operation in stable positions
- Choice of actuators and mounting accessories



Main specifications

		Outputs on front face 83 109 0
Function	Connections	
I (changeover)	W2	
R (normally closed)	W2	
C (normally open)	W2	
Electrical characteristics		
Rating nominal / 250 V AC (A)		5
Rating thermal / 250 V AC (A)		17.5
Mechanical characteristics		
Maximum operating force (N)		4
Min. Release force (N)		1
Tripping point (mm)		11.45 ^{+0.2 - 0.25}
Min. overtravel (mm)		0.7
Mechanical life (operations)		10 ⁷
Max. permitted overtravel force (N)		20
Rest position max. (mm)		12.75
differential travel (mm)		0.5 ^{-0.2}
Ambient operating temperature (°C)		- 40 → +85
Contact gap (mm)		0.4 x 2
Weight (g)		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

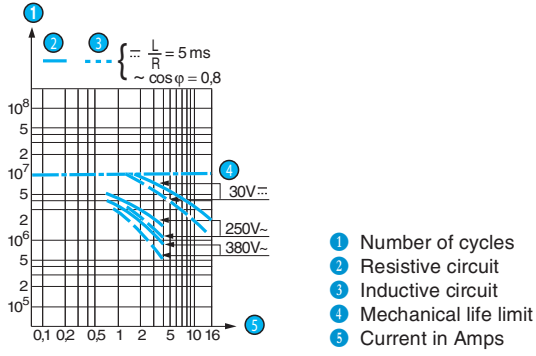
Principles

Double break changeover snap-action switch



Curves

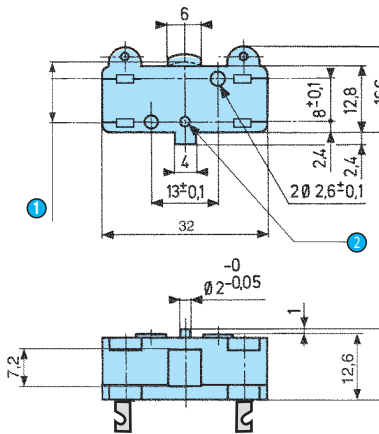
Operating curve for type 83 109 0



Dimensions

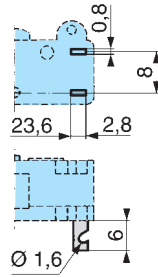
→ Product

83 109 0



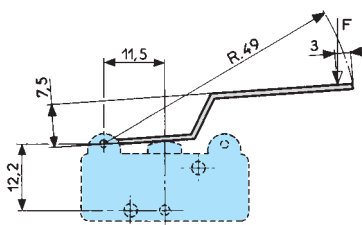
→ Connections

W2 solder



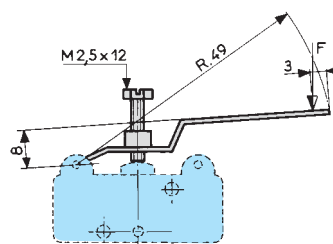
→ Actuators

A



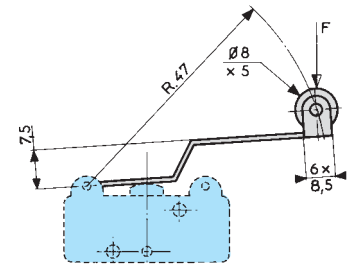
Lever cross-section 1 x 6.4 mm

B

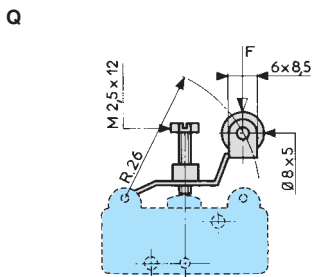


Lever cross-section 1 x 6.4 mm

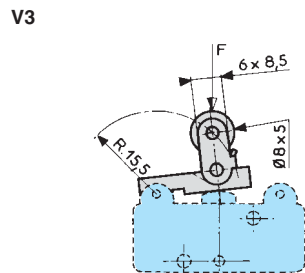
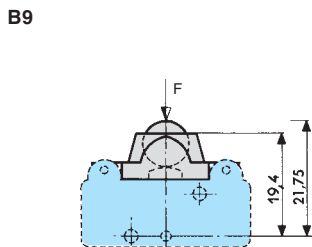
E



Lever cross-section 1 x 6.4 mm



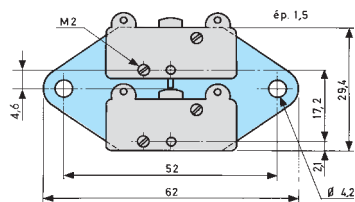
Lever cross-section 1 x 6.4 mm



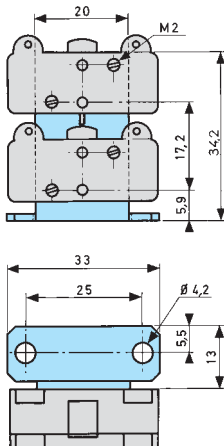
Lever cross-section 1 x 6.4 mm

→ Mounting accessories

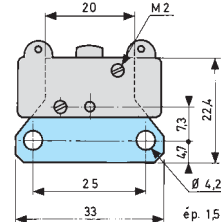
O2 2-pole side mounting plate



K2 2-pole vertical mounting plate



H Horizontal single-pole mounting plate



Unless indicated, the thickness of plates is 1.5 mm

Actuators and mounting accessories

Actuators	70500888	70500828	70500813	70500840	70500870	70500170
	AR49	BR49	ER47	Q	V3 R15.5	B9
Operating force - max.	N	1.2	1.2	1.2	2.8	4
Release force - min.	N	0.25	0.25	0.2	0.45	0.8
Pre-travel - max.	mm	6.2	6.2	6.2	3.2	1.45
Differential travel	mm	2.1 ±0.9	2.1 ±0.9	2.1 ±0.9	1.05 ±0.4	0.5 ±0.2
Total travel max.	mm	7.5	8.4	7.5	4.5	1.9

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

Mounting accessories	70500208	70500218	70500216
	H Horizontal single-pole mounting plate	O2 2-pole side mounting plate	K2 2-pole vertical mounting plate
Screws: Length	14.5	70599106	

Other information

Mounting - Operation

See basic technical concepts

To ensure protection against electric shock after installation in the application, please consult us when conductive parts are located less than 3mm from case/cover rear mating surfaces, opposite to button side.

Protected

→ 83 111

- Double break switching
- Rear-fixing via nuts or clips
- Choice of actuators



Main specifications

Function	Connections	Rear-fixing by nuts 83 111 0	Rear-fixing by clips 83 111 5
		83 111 001	83 111 525
I (changeover)	W3	●	●
I (changeover)	W1 - W2	●	●
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

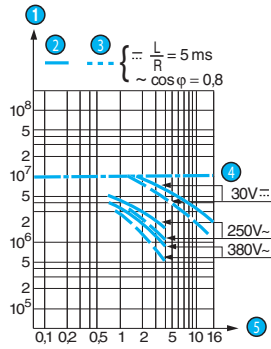
Principles

Double break changeover snap-action switch



Curves

Operating curve for types 83 111 0 - 83 111 5

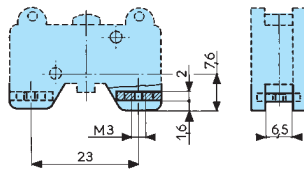


- 1 Number of cycles
- 2 Resistive circuit
- 3 Inductive circuit
- 4 Mechanical life limit
- 5 Current in Amps

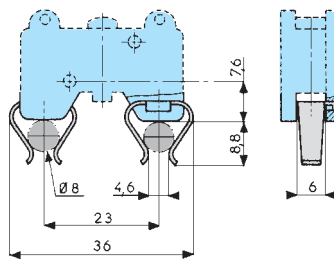
Dimensions

→ Product

83 111 0

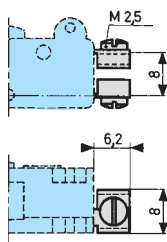


83 111 5

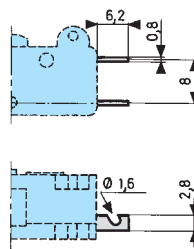


→ Connections

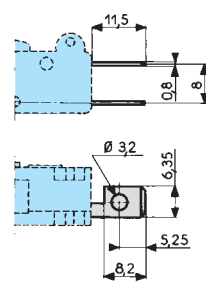
W1 screw



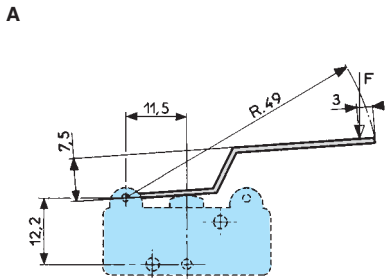
W2 solder



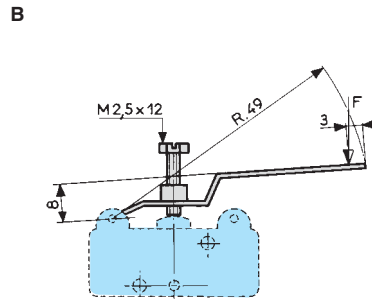
W3 for 6.35 mm clips



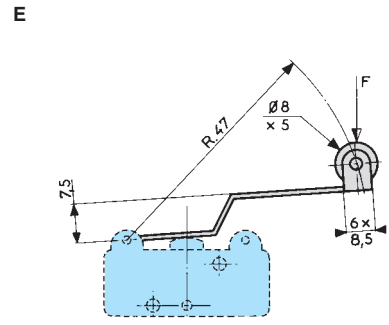
→ Actuators



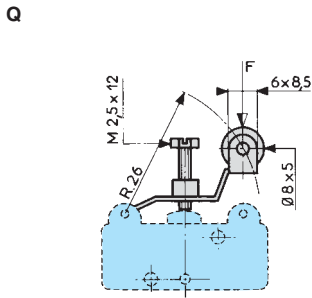
Lever cross-section 1 x 6.4 mm



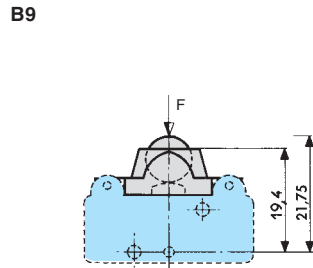
Lever cross-section 1 x 6.4 mm



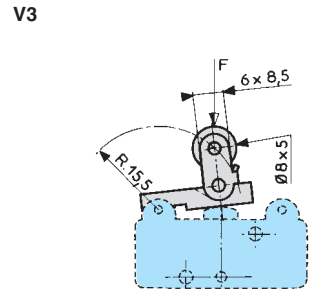
Lever cross-section 1 x 6.4 mm



Lever cross-section 1 x 6.4 mm









Lever cross-section 1 x 6.4 mm



Lever cross-section 1 x 6.4 mm

Actuators and mounting accessories

Actuators	70500888	70500828	70500813	70500840	70500870	70500170	
	AR49	BR49	ER47	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

Protected

→ 83 112

- Double break switching
- Built-in screw connections
- Options for operation in stable positions
- Choice of actuators and mounting accessories



Main specifications

		Built-in screw connections 83 112 0
Function	Connections	
I (changeover)	W1	
Electrical characteristics		83 112 001
Rating nominal / 250 V AC (A)		5
Rating thermal / 250 V AC (A)		17.5
Mechanical characteristics		
Maximum operating force (N)		4
Min. Release force (N)		1
Tripping point (mm)		11.45 ^{+0.2 -0.25}
Min. overtravel (mm)		0.7
Mechanical life (operations)		10 ⁷
Max. permitted overtravel force (N)		20
Rest position max. (mm)		12.75
differential travel (mm)		0.5 ^{+0.2}
Ambient operating temperature (°C)		-40 → +85
Contact gap (mm)		0.4 x 2
Weight (g)		14.5

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

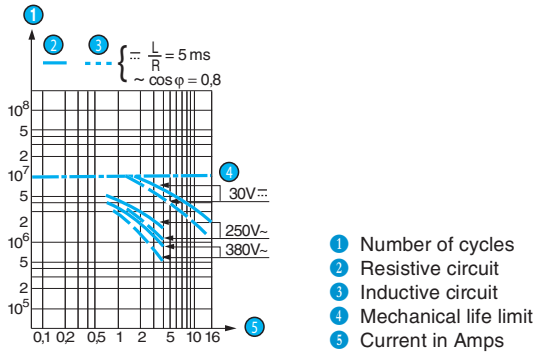
Principles

Double break changeover snap-action switch



Curves

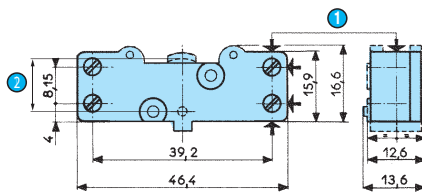
Operating curve for type 83 112 0



Dimensions

→ Product

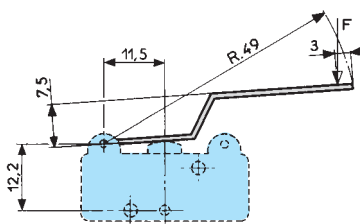
83 112 0



- 1 Connection
- 2 OL = 10.65

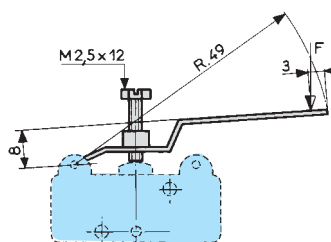
→ Actuators

A



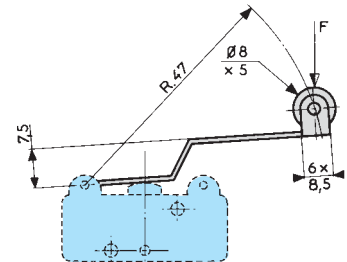
Lever cross-section 1 x 6.4 mm

B



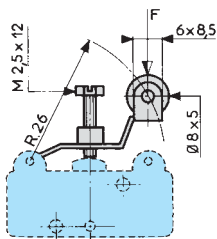
Lever cross-section 1 x 6.4 mm

E



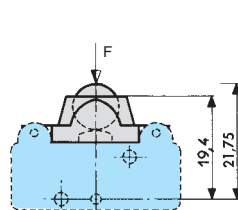
Lever cross-section 1 x 6.4 mm

Q

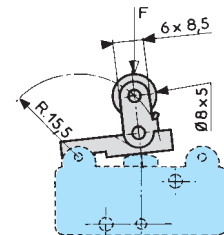


Lever cross-section 1 x 6.4 mm

B9



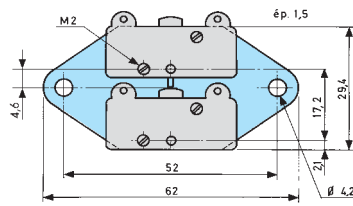
V3



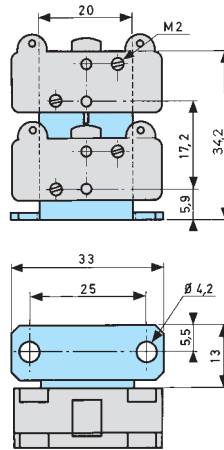
Lever cross-section 1 x 6.4 mm

→ Mounting accessories

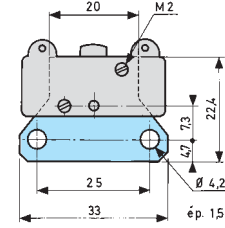
O2
2-pole side mounting plate



K2
2-pole vertical mounting plate









H
Horizontal single-pole mounting plate






Unless indicated, the thickness of plates is 1.5 mm

Actuators and mounting accessories

Actuators	70500888	70500828	70500813	70500840	70500870	70500170
	AR49	BR47	ER47	Q	V3 R15,5	E9
						
Operating force - max.	N	1.2	1.2	1.2	2.8	4
Release force - min.	N	0.25	0.25	0.2	0.45	0.8
Pre-travel - max.	mm	6.2	6.2	6.2	3.2	1.45
Differential travel	mm	2.1 ±0.09	2.1 ±0.09	2.1 ±0.09	1.05 ±0.4	0.5 ±0.2
Total travel max.	mm	7.5	8.4	7.5	4.5	1.9

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

Mounting accessories	70500208	70500218	70500216
	H Horizontal single-pole mounting plate	O2 2-pole side mounting plate	K2 2-pole vertical mounting plate
			
Screws: Length	14.5	70599106	

Other information

Mounting - Operation

See basic technical concepts

To ensure protection against electric shock after installation in the application, please consult us when conductive parts are located less than 3mm from case/cover rear mating surfaces, opposite to button side.

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