

# Protected

## → 83 154

- Double break switching
- High DC switch rating
- Option for operation in stable positions
- Choice of actuators and mounting accessories



## Main specifications

		Magnetic blow-out 83 154 0
Function	Connections	83 154 001
I (changeover)	W3	●
R (normally closed)	W3	●
C (normally open)	W3	
Electrical characteristics		
Rating nominal / 250 V DC (A)		5
Rating thermal / 250 V DC (A)		17.5
Mechanical characteristics		
Maximum operating force (N)		4
Min. Release force (N)		1
Tripping point (mm)		11.45 <sup>+0.2 -0.25</sup>
Min. overtravel (mm)		0.7
Mechanical life (operations)		10 <sup>7</sup>
Max. permitted overtravel force (N)		20
Rest position max. (mm)		12.75
differential travel (mm)		0.65 <sup>+0.25</sup>
Ambient operating temperature (°C)		-40 → +125
Contact gap (mm)		0.5 x 2
Weight (g)		11
Comments		
At 250 VDC 5 A resistive 500.000 cycles		

## Additional specifications

### Components

#### Material

- Case : polyamide UL94V0
- Contacts : nickel silver

#### Levers

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

## Product adaptations



- Special levers
- Reinforced spring
- Special contacts
- Solder or screw connections
- Approvals : UL - cUL

## Principles

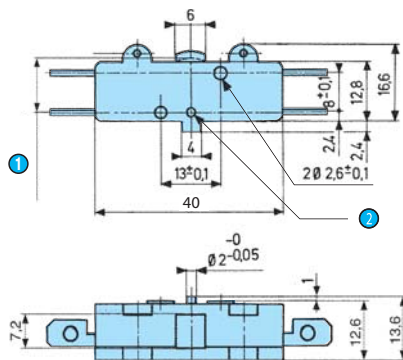
### Single break changeover snap-action switch



## Dimensions

### → Product

83 154 0

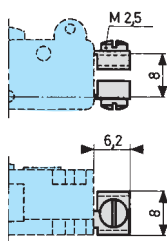


① OL = 10.65

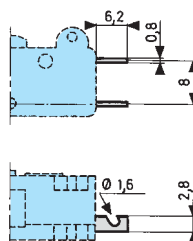
② Ø 2<sup>+0.01 +0.65</sup> Depth 1.2

### → Connections

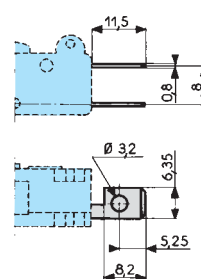
#### W1 screw



#### W2 solder

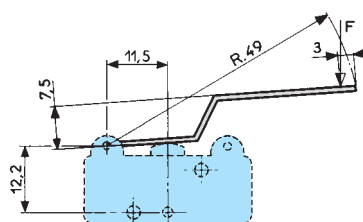


#### W3 for 6.35 mm clips



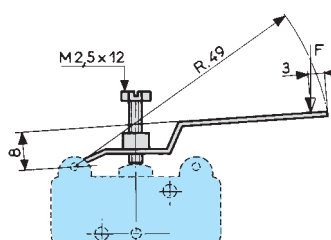
### → Actuators

A



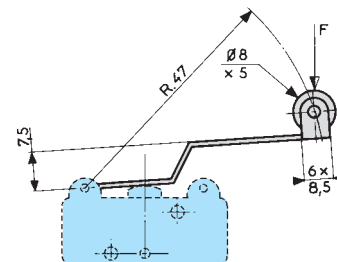
Lever cross-section 1 x 6.4 mm

B



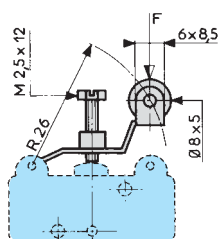
Lever cross-section 1 x 6.4 mm

E



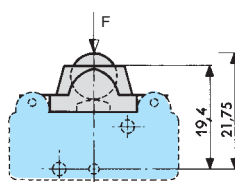
Lever cross-section 1 x 6.4 mm

Q

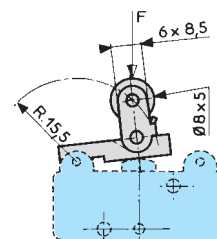


Lever cross-section 1 x 6.4 mm

B9



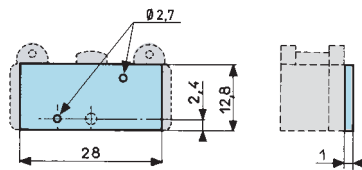
V3



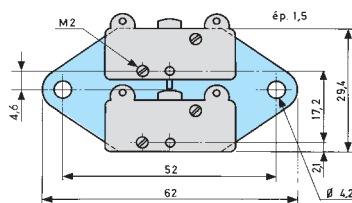
Lever cross-section 1 x 6.4 mm

## → Mounting accessories

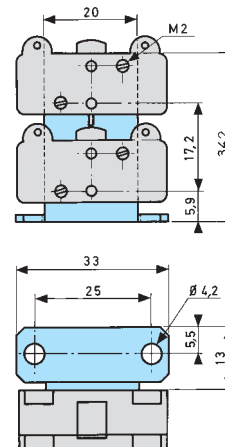
**Y**  
Side plate



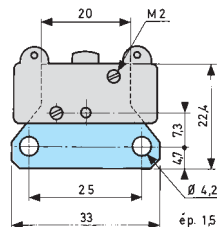
**O2**  
2-pole side mounting plate



**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

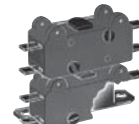
Actuators	70500888	70500828	70500813	70500840	70500870	70500170
	<b>AR49</b>	<b>BR49</b>	<b>ER47</b>	<b>Q</b>	<b>V3 R15.5</b>	<b>B9</b>
						
Operating force - max.	N 1.2	1.2	1.2	2.8	4	4
Release force - min.	N 0.25	0.25	0.2	0.45	0.8	1
Pre-travel - max.	mm 6.2	6.2	6.2	3.2	1.45	1.5
Differential travel	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
	<b>Y Side plate</b>	<b>H Horizontal single-pole mounting plate</b>	<b>O2 2-pole side mounting plate</b>	<b>K2 2-pole vertical mounting plate</b>

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.

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