

# Protected

→ 83 154

- Double break switching
- High DC switch rating
- Choice of actuators and fixing positions



## Main specifications

		Magnetic blow-out 83 154 0
<b>Function</b>	<b>Connections</b>	
I (changeover)	W1 - W2 - W3	●
R (normally closed)	W1 - W2 - W3	●
C (normally open)	W1 - W2 - W3	●
<b>Electrical characteristics</b>		
Rating nominal / 250 V DC (A)		5
Rating thermal / 250 V DC (A)		17.5
<b>Mechanical characteristics</b>		
Maximum operating force (N)		4
Min. Release force (N)		1
Tripping point (mm)		20
Min. overtravel (mm)		0.7
Mechanical life (operations)		10 <sup>7</sup>
Max. permitted overtravel force (N)		20
Rest position max. (mm)		-
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
<b>Comments</b>		
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
- Approvals : UL - cUL

# Principles

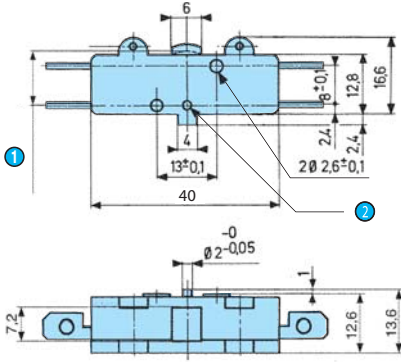
Single break changeover switch



# Dimensions

## → Product

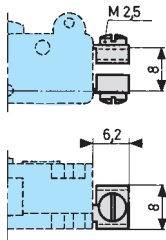
83 154 0



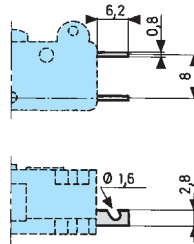
- 1 OL = 10.65
- 2  $\varnothing 2^{+0.01 +0.65}$  Depth 1.2

## → Connections

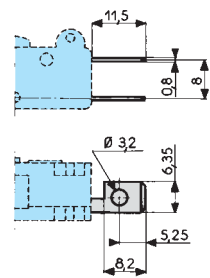
W1 screw



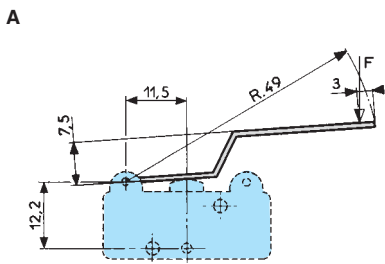
W2 solder



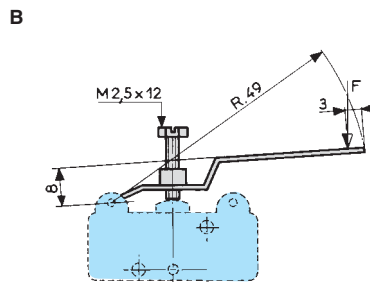
W3 for 6.35 mm clips



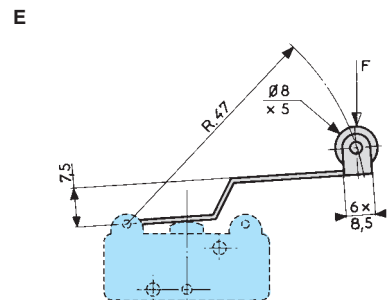
## → Actuators



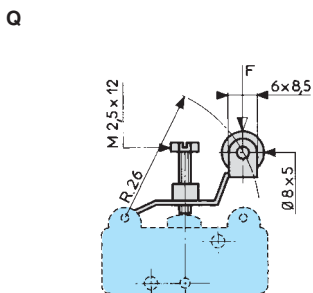
Lever cross-section 1 x 6.4 mm



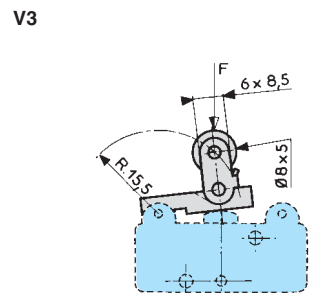
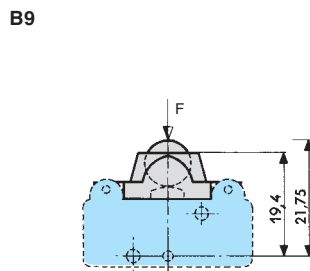
Lever cross-section 1 x 6.4 mm



Lever cross-section 1 x 6.4 mm



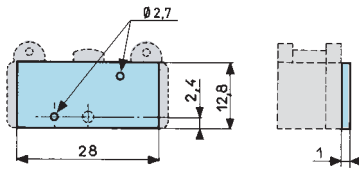
Lever cross-section 1 x 6.4 mm



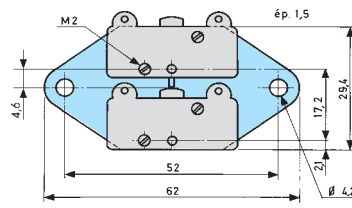
Lever cross-section 1 x 6.4 mm

## → Mounting accessories

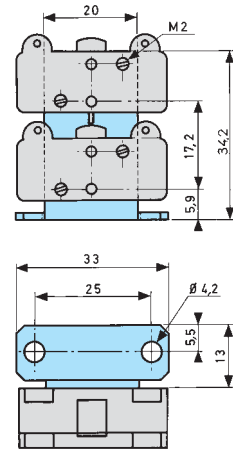
**Y**  
Side plate



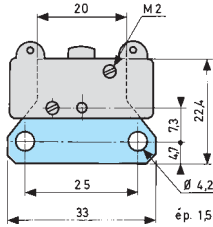
**O2**  
2-pole side mounting plate



**K2**  
2-pole vertical mounting plate



**H**  
Horizontal single-pole mounting plate



Unless indicated, the thickness of plates is 1.5 mm

## Actuators and fixing positions

### Actuators and fixing positions

Actuators		AR49	BR47	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

**Y** Side plate



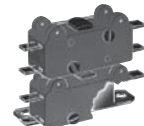
**H** Horizontal single-pole mounting plate



**O2** 2-pole side mounting plate



**K2** 2-pole vertical mounting plate



## Other information

**Mounting - Operation**  
See basic technical concepts