MICROSWITCHES 05/2016

# **Protected**

- **→** 83 154
- Double break switching
- High DC switch rating
- Option for operation in stable positions
- Choice of actuators and mounting accessories

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Main specification	S	
		Magnetic blow-out 83 154 0
Function	Connections	
I (changeover)	W3	83 154 001
R (normally closed)	W3	•
C (normally open)	W3	•
Electrical characteristics		
Rating nominal / 250 V DO		5
Rating thermal / 250 V DC (A)		17.5
Mechanical characterist		
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)		107
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)

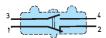
#### **Product adaptations**



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

#### **Principles**

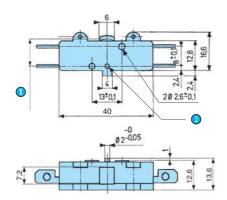
Single break changeover snap-action switch



### Dimensions

#### → Product

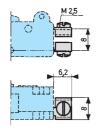
83 154 0



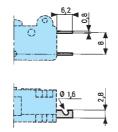
- **1** OL = 10.65
- 2 Ø 2+0.01 +0.65 Depth 1.2

#### → Connections

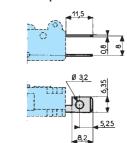
W1 screw



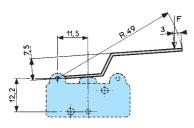
W2 solder



W3 for 6.35 mm clips

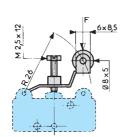


#### → Actuators

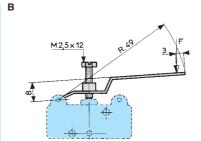


Lever cross-section 1 x 6.4 mm

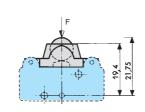
Q

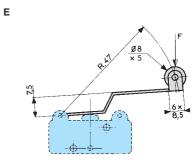


Lever cross-section 1 x 6.4 mm



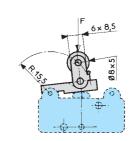
Lever cross-section 1 x 6.4 mm





Lever cross-section 1 x 6.4 mm

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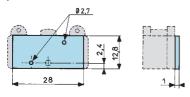


Lever cross-section 1 x 6.4 mm

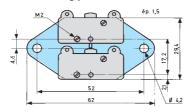
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#### → Mounting accessories

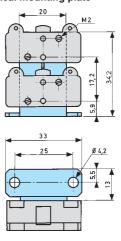
### Side plate



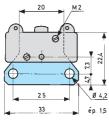
2-pole side mounting plate



2-pole vertical mounting plate



## 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>A</b> P49	<b>B</b> P49	EP47	Q	<b>V3</b> 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).

Mounting aco	essories	70500206	70500208	70500218	70500216
		Y Sde plate	<b>H</b> Horizontal single-pole mounting plate	<b>O2</b> 2-pole side mounting plate	<b>K2</b> 2-pole vertical mounting plate
Screws: Length	14.5 <b>70599106</b> 16 <b>70599102</b> 27.5 <b>70599110</b>	0	- 5		

#### 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.