

V3 83161 Dual-current Dual-current 831618 Part number 83161806



- Minimum rating 1 mA / 4 VDC
- Operating temperature up to +125 °C
- Conforming to EN 61058 and UL 1054
- Choice of actuators with 4 possible fixing positions

Part numbers

Туре	Function	Connections
83161806 Dual-current 831618	I (Changeover)	W3

Specifications

Electrical characteristics

Rating nominal / 250 VAC (A)	0,1
Rating thermal / 250 VAC (A)	6

Mechanical characteristics

Mechanical characteristics	
Maximum operating force (N)	0,8
Min. Release force (N)	0,2
Maximum total travel force (N)	2
Max. permitted overtravel force (N)	20
Maximum rest position (mm)	16,2
Operating position (mm)	14,7 ^{±0,3}
Maximum differential travel (mm)	0,35
Min. overtravel CRA (mm)	1,2
Ambient operating temperature (°C)	-20 →+125
Mechanical life for 2/3 CRA (operations)	2 x 10 ⁷
Contact gap (mm)	0,4
Weight (g)	5.6

Additional specifications

Components Material

- Housings : polyamide or polyester - Button : polyamide

- Contacts : gold alloy

Levers

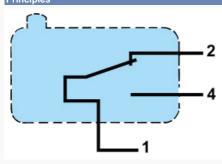
- Flat : stainless steel

- Roller : stainless steel, glass-filled polyamide roller

- Other polyamides

Approvals: NF

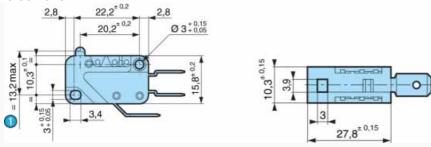
Principles



Dimensions (mm)

Product

83161

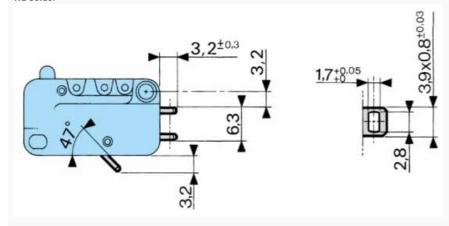


Nº	Legend
0	OL

Dimensions (mm)

Connections

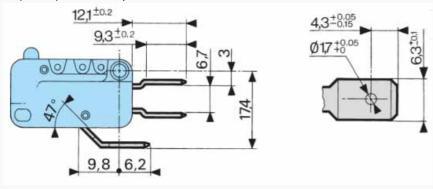
W2 solder



Dimensions (mm)

Connections

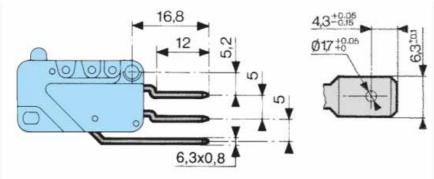
W3 (6.3 x 0.8) for 6.35 mm clips



Dimensions (mm)

Connections

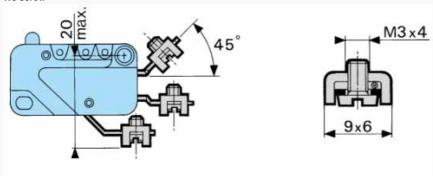
W3R5 (6.3 x 0.8) for 6.35 mm clips



Dimensions (mm)

Connections

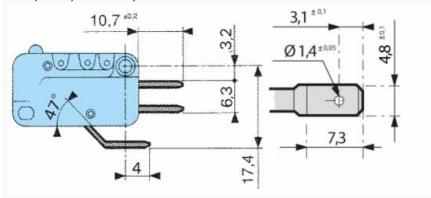
W5 screw



Dimensions (mm)

Connections

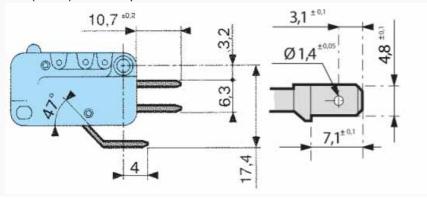
W6A5 (4.8 x 0.5) for 4.8 mm clips



Dimensions (mm)

Connections

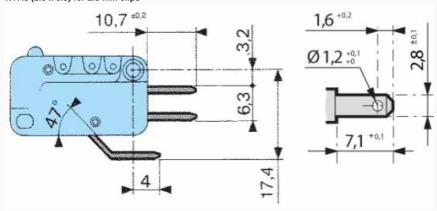
W6D8 (4.8 x 0.8) for 4.8 mm clips



Dimensions (mm)

Connections

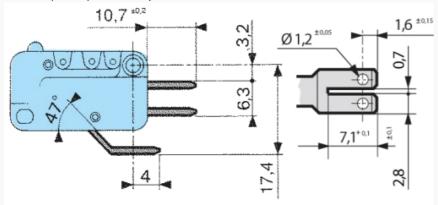
W7A5 (2.8 x 0.5) for 2.8 mm clips



Dimensions (mm)

Connections

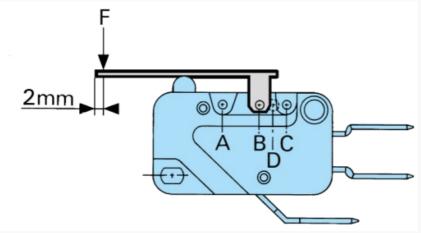
2W7A8 2 x (2.8 x 0.8) for 2.8 mm clips



Dimensions (mm)

Actuator mounting positions

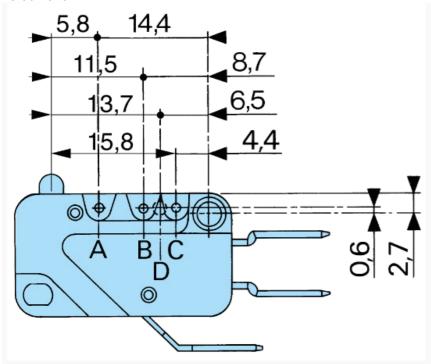
Levers



To calculate force Divide the switch force by the coefficient given in the table. To calculate travel Multiply the switch travel by the same coefficient. Example: 83 161 8 with lever 161 A - R 25.4 position A (coeff. 4) Operating force: 0.8: 4 = 0.2 N Pre-travel: 1.4 x 4 = 5.6 mm

Dimensions (mm)

Actuator mounting positions

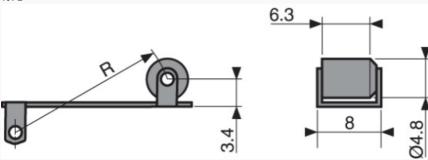


To calculate force Divide the switch force by the coefficient given in the table. To calculate travel Multiply the switch travel by the same coefficient. Example: 83 161 8 with lever 161 A - R 25.4 position A (coeff. 4) Operating force: 0.8: 4 = 0.2 N Pre-travel: 1.4 x 4 = 5.6 mm

Dimensions (mm)

Actuators

161 E

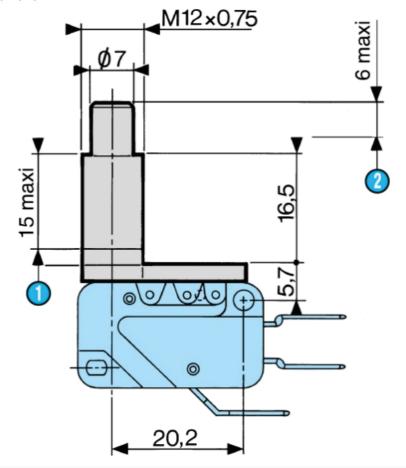


To calculate force Divide the switch force by the coefficient given in the table. To calculate travel Multiply the switch travel by the same coefficient. Example: 83 161 8 with lever 161 A - R 25.4 position A (coeff. 4) Operating force: 0.8: 4 = 0.2 N Pre-travel: 1.4 x 4 = 5.6 mm

Dimensions (mm)

Actuators

161 L



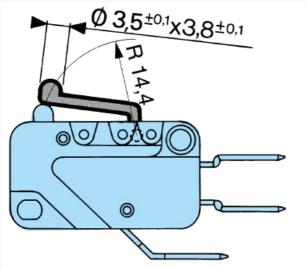
Nut thickness Max. torque 1.5 mm 5 Cm N 2 mm 7 Cm N 2.5 mm 10 Cm N $\,$

No	Legend
0	Thread
0	Total travel

Dimensions (mm)

Actuators

161 V

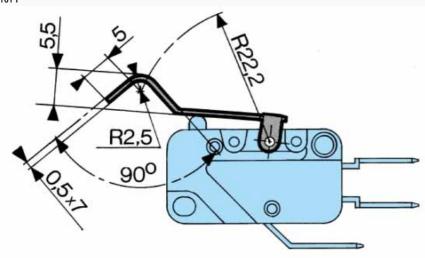


Nut thickness Max. torque 1.5 mm 5 Cm N 2 mm 7 Cm N 2.5 mm 10 Cm N $\,$

Dimensions (mm)

Actuators

161 F

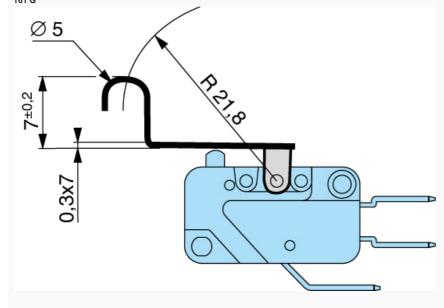


Nut thickness Max. torque 1.5 mm 5 Cm N 2 mm 7 Cm N 2.5 mm 10 Cm N $\,$

Dimensions (mm)

Actuators

161 G



Nut thickness Max. torque 1.5 mm 5 Cm N 2 mm 7 Cm N 2.5 mm 10 Cm N $^{\circ}$

Dimensions (mm)

Mounting accessories

Nut 70602118

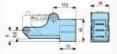


Nut thickness Max. torque 1.5 mm 5 Cm N 2 mm 7 Cm N 2.5 mm 10 Cm N $\,$

Dimensions (mm)

Mounting accessories

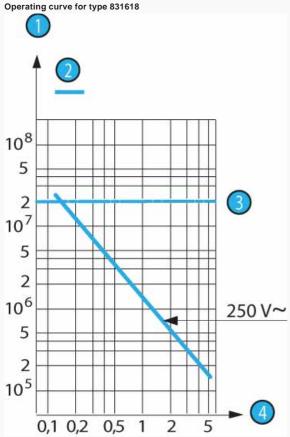
Housing 161 J for connections W3 R5



Nut thickness Max. torque 1.5 mm 5 Cm N 2 mm 7 Cm N 2.5 mm 10 Cm N

Curves





For types 83 161 8 - 9 and 9 SP 4136 Dual-current These models are designed to operate equally well on dual-current (1 mA 4 V minimum) or medium-current (5 A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life.

Nº	Legend
0	Number of cycles
②	Resistive circuit
③	Mechanical life limit
0	Current in Amps

Connections

Actuators and fixing positions

Part numbers for standard actuators	79 2	15 740	70	507 5	524	79 2	15 742	7	0 507 5	29	70 5	07 528	
Actuators	Plain 1	Plain 161A R14,2		Plain 161A R25,4			Roller 161E R13,6		Roller 161E R24,1			Dummy roller 161F R22,2	
	-		-		7			A				-	
Fixing positions	A	В	A	В	С	A	В	A	В	С	A	В	
Coefficient	2	1	4	2	1,5	2	1	4	2	1,5	3	1,8	
Tripping point (except 83 161 6)	15,2 *1	15,2 *4.45	15,2*25	15,2*1	15,2 *48	20,5 ***	20,5 ***	20,5 449	20,5 *1.5	20,5 *1.2	20,412	20,4 *4	
Tripping point 83 161 6	14,8 *1	15 10/6	14,4*25	14,8 11	14,9***	20,1 41,5	20,3 10,8	19,7 449	20,1 *15	20,2 =1.2	20,2 *2	20,2 12	
Part numbers for standard actuators	79 2	18 651	l										
Actuators	Dummy roller 161G R21,8		**Telescopic Manua plunger 161 L			anual actio	nual action 161V				J Nut for 161L Part no.: 70 602 118		
Fixing positions	A	В	D		-	-40b	- D		A	2		\cup	
	- ^	1,8	1										
Coefficient			_										
Coefficient Tripping point (except 83 161 6)	21,7=2	21,7 44,7	21,5*1				18,35 **	(A)					

Except where otherwise indicated, plain and roller levers are supplied unmounted. For factory mounting, specify fixing position A, B or C.

** For 83 161 1, 83 161 2, 83 161 3, 83 161 6 mounted in factory (supplied without nut)

Other information

Mounting - Operation
See basic technical concepts

Product adaptations



- Special levers
- Special connections
- Specific fixingHigh operating temperature
- Special operating forceApprovals : UL cUL