



83161301-Standard 831613



- ✓ Nominal ratings 0.1 A to 20 A / 250 VAC
- ✓ Operating temperature up to +125°C
- ✓ Conforming to EN 61058 and UL 1054
- ✓ Choice of actuators with 4 possible fixing positions

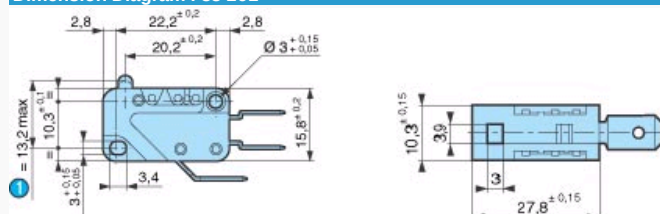
Electrical characteristics

Rating nominal / 250 VAC (A)	16
Rating thermal / 250 VAC (A)	20
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
Tripping point (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

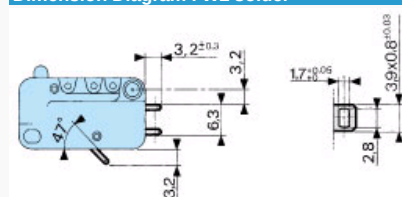
- Housings: polyamide or polyester
- Button: polyamide
- Contacts: AgNi
- Flat: stainless steel
- Roller: stainless steel, glass-filled polyamide roller
- Other polyamides
- : NF

Dimension Diagram : 83 161

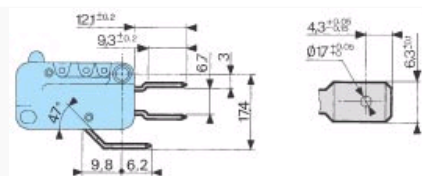


N°	Legend
1	OL

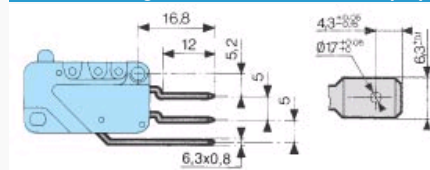
Dimension Diagram : W2 solder



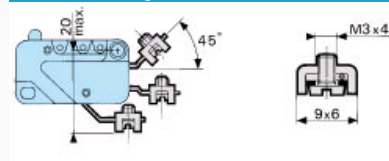
Dimension Diagram : W3 for 6.35 mm clips (6.3 x 0.8)



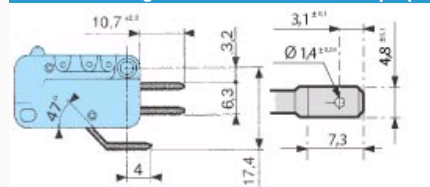
Dimension Diagram : W3R5 for 6.35 mm clips (6.3 x 0.8)



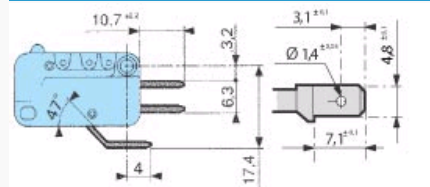
Dimension Diagram : W5 screw



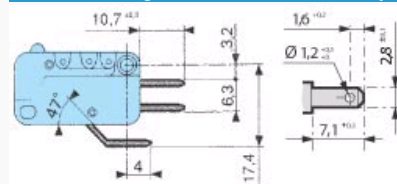
Dimension Diagram : W6A5 for 4.8 mm clips (4.8 x 0.5)



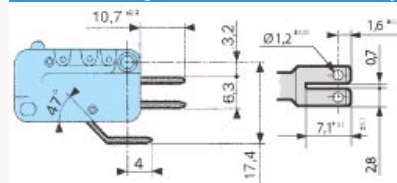
Dimension Diagram : W6D8 for 4.8 mm clips (4.8 x 0.8)



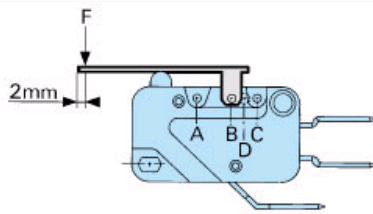
Dimension Diagram : W7A5 for 2.8 mm clips (2.8 x 0.5)



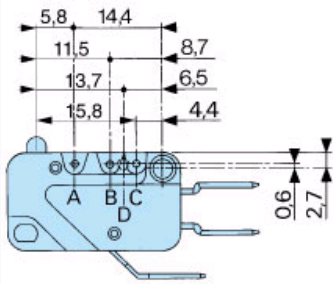
Dimension Diagram : 2W7A8 for 2.8 mm clips (2.8 x 0.8)



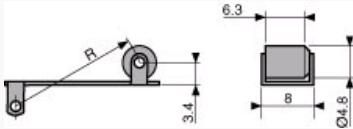
Dimension Diagram : Levers



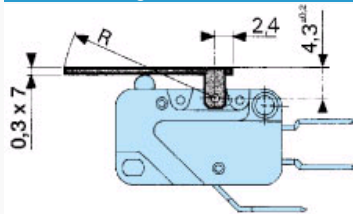
Dimension Diagram :



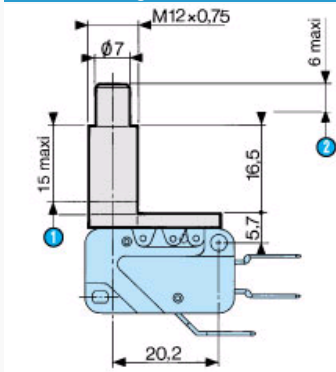
Dimension Diagram : 161 E



Dimension Diagram : 161 A

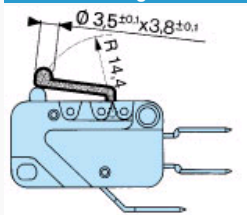


Dimension Diagram : 161 L

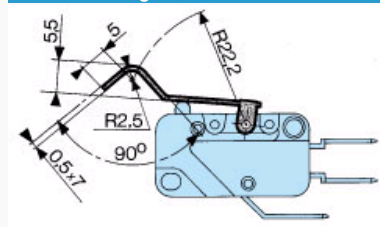


N°	Legend
1	Thread
2	Total travel

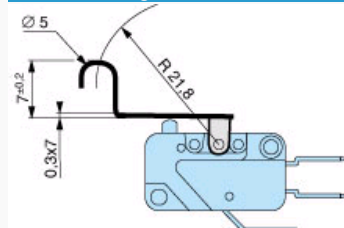
Dimension Diagram : 161 V



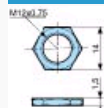
Dimension Diagram : 161 F



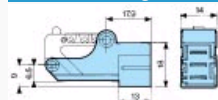
Dimension Diagram : 161 G



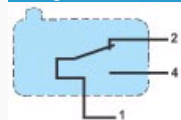
Dimension Diagram : Nut 70 602 118



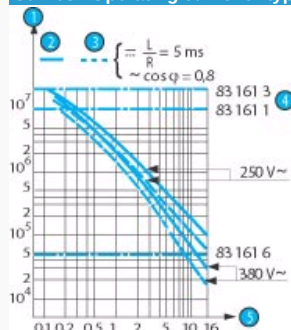
Dimension Diagram : Housing 161 J for connections W3 R5



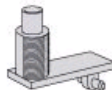
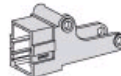
: Single break changeover switch



Curves : Operating curve for types 83 161 1 / 83 161 3 / 83 161 6



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

Part numbers for standard actuators		79 215 740		70 507 524		79 215 742		70 507 529		70 507 528	
Actuators		Plain 161A R14,2		Plain 161A R25,4		Roller 161E R13,6		Roller 161E R24,1		Dummy roller 161F R22,2	
											
Fixing positions		A	B	A	B	C	A	B	C	A	B
Coefficient		2	1	4	2	1,5	2	1	4	2	1,5
Tripping point (except 83 161 6)		15,2 ±1	15,2 ±0,45	15,2 ±25	15,2 ±1	15,2 ±0,8	20,5 ±1,5	20,5 ±0,8	20,5 ±2,8	20,5 ±1,5	20,5 ±1,2
Tripping point 83 161 6		14,8 ±1	15 ±0,45	14,4 ±25	14,8 ±1	14,9 ±0,8	20,1 ±1,5	20,3 ±0,8	19,7 ±2,8	20,1 ±1,5	20,2 ±1,2
										20,2 ±2	20,2 ±2
Part numbers for standard actuators		79 218 651									
Actuators		Dummy roller 161G R21,8		**Telescopic plunger 161 L		Manual action		161V		Housing 161J	
											
Fixing positions		A	B	D		D		D			
Coefficient		3	1,8	1		1		1			
Tripping point (except 83 161 6)		21,7 ±2	21,7 ±0,7	21,5 ±1		18,35 ±0,45					
Tripping point 83 161 6		21,5 ±2	21,5 ±0,7	21,5 ±1							

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)

Special adaptations

- ✓ Special levers
- ✓ Special connections
- ✓ Specific fixing
- ✓ High operating temperature
- ✓ Special operating force
- ✓ Approvals: UL - cUL