

V3 83161 Standard 831613 Part number 83161338



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

	Туре	Function	Connections
00404		1	
	High release force 831611	I (changeover)	W2
83161118	High release force 831611	I (changeover)	W3
83161110	High release force 831611	I (changeover)	W6A5*
MADE TO	High release force 831611	I (Changeover)	W3R5* - W5 - W6D8* - W7A5 - 2W7A8*
ORDER MADE TO			
ORDER MADE TO	High release force 831611	R (Normally closed)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
ORDER MADE TO	High release force 831611	C (Normally open)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
ORDER	High-current 831612	I (Changeover)	W2
MADE TO ORDER	High-current 831612	I (Changeover)	W3
MADE TO ORDER	High-current 831612	I (Changeover)	W6A5*
MADE TO ORDER	High-current 831612	I (Changeover)	W3R5* - W5 - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER	High-current 831612	R (Normally closed)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER	High-current 831612	C (Normally open)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
83161301	Standard 831613	I (Changeover)	W2
	Standard 831613	I (Changeover)	W3
		I (Changeover)	W6A5*
	Standard 831613	r (Grangeover)	WOAS
MADE TO ORDER	Standard 831613	I (Changeover)	W3R5* - W5 - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER	Standard 831613	R (Normally closed)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER	Standard 831613	C (Normally open)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER	Low force 831614	I (Changeover)	W2
MADE TO ORDER	Low force 831614	I (Changeover)	W3
MADE TO ORDER	Low force 831614	I (Changeover)	W6A5*
MADE TO ORDER	Low force 831614	I (Changeover)	W3R5* - W5 - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER	Low force 831614	R (Normally closed)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER	Low force 831614	C (Normally open)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
83161502	Very low force 831615	I (Changeover)	W2
	Very low force 831615	I (Changeover)	W3
	Very low force 831615	I (Changeover)	W6A5*
MADE TO			
ORDER MADE TO	Very low force 831615	I (Changeover)	W3R5* - W5 - W6D8* - W7A5 - 2W7A8*
ORDER MADE TO	Very low force 831615	R (Normally closed)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
ORDER MADE TO	Very low force 831615	C (Normally open)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
ORDER	Very low force 831615 SP 4136	I (changeover)	W2
MADE TO ORDER	Very low force 831615 SP 4136	I (changeover)	W3
MADE TO ORDER	Very low force 831615 SP 4136	I (changeover)	W6A5*
MADE TO ORDER	Very low force 831615 SP 4136	I (Changeover)	W3R5* - W5 - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER	Very low force 831615 SP 4136	R (Normally closed)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER	Very low force 831615 SP 4136	C (Normally open)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER	Wide contact gap 831616	I (changeover)	W2

MADE TO ORDER Wide contact gap 831616	I (changeover)	W3
MADE TO ORDER Wide contact gap 831616	I (changeover)	W6A5*
MADE TO ORDER Wide contact gap 831616	I (Changeover)	W3R5* - W5 - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER Wide contact gap 831616	R (Normally closed)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*
MADE TO ORDER Wide contact gap 831616	C (Normally open)	W2 - W3 - W3R5* - W5 - W6A5* - W6D8* - W7A5 - 2W7A8*

Electrical characteristics

Rating nominal / 250 V (A)	16
Rating thermal / 250 V (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
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 (APN):

- Contacts : AgNi

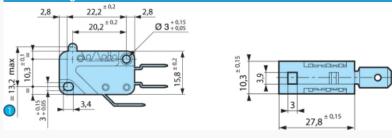
Levers

- Flat : stainless steel

- Roller : stainless steel, glass-filled polyamide roller

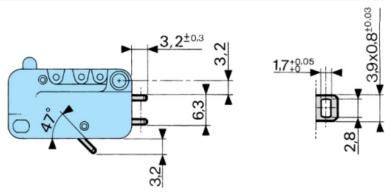
- Other polyamides Approvals : NF

Dimension Diagram: 83161

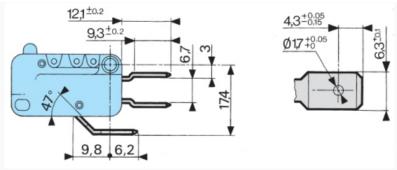


Nº	Legend
1	OL

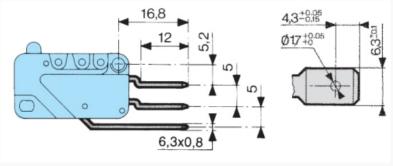
Dimension Diagram : W2 solder



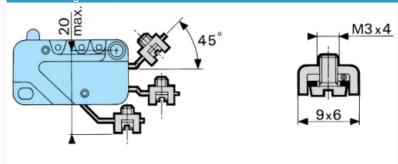
Dimension Diagram : W3 for 6.35 mm clips (6.3 x 0.8)



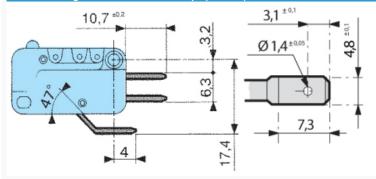
Dimension Diagram : W3R5 for 6.35 mm clips (6.3 x 0.8)



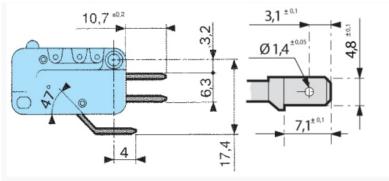
Dimension Diagram : W5 screw



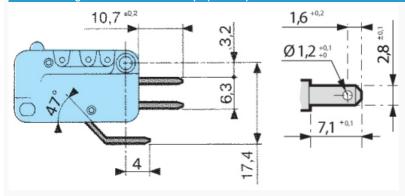
Dimension Diagram: W6A5 for 4.8 mm clips (4.8 x 0.5)



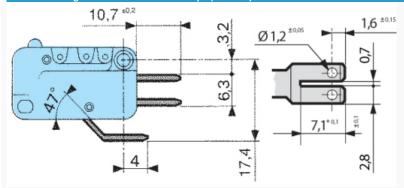
Dimension Diagram : W6D8 for 4.8 mm clips (4.8 x 0.8)



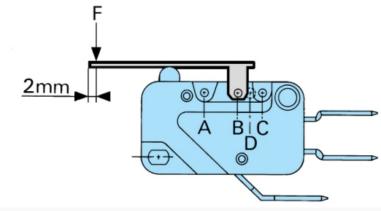
Dimension Diagram: W7A5 for 2.8 mm clips (2.8 x 0.5)



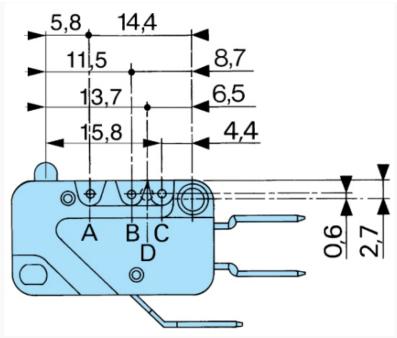
Dimension Diagram: 2W7A8 for 2.8 mm clips (2.8 x 0.8)



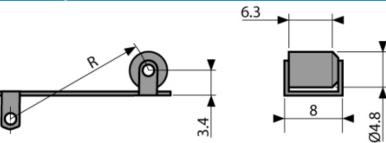
Dimension Diagram : Levers



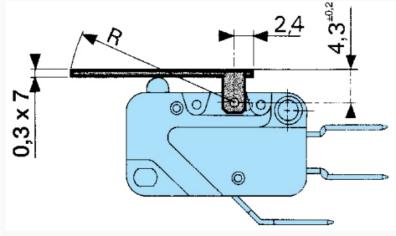
Dimension Diagram:



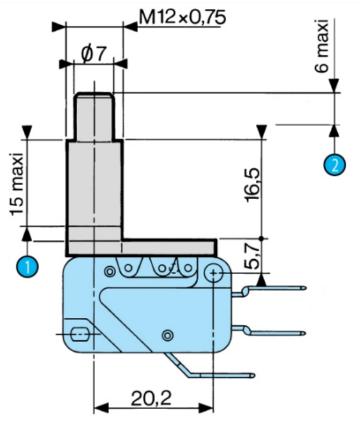
Dimension Diagram : 161 E



Dimension Diagram : 161 A



Dimension Diagram : 161 L



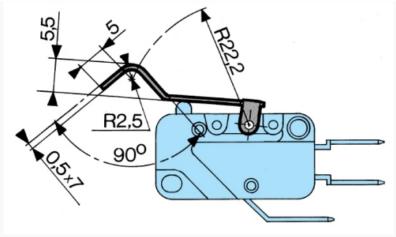
N°	Legend
1	Thread
2	Total travel

Dimension Diagram : 161 V

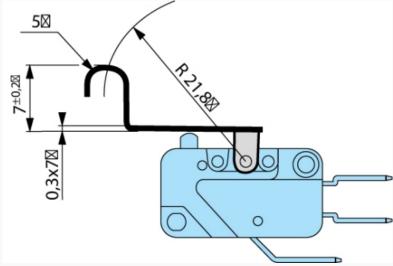
Ø 3,5±0,1 X3,8±0,1

0





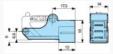
Dimension Diagram: 161 G



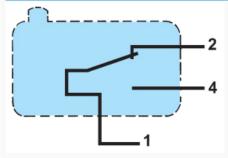
Dimension Diagram : Nut 70602118

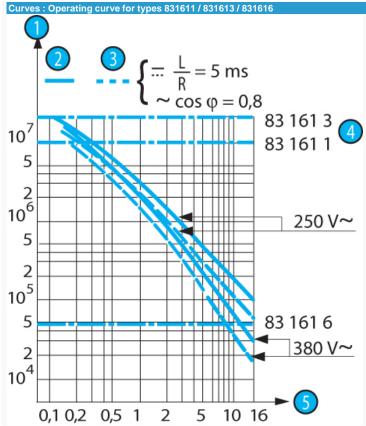


Dimension Diagram: Housing 161 J for connections W3 R5



: Single break changeover switch





Nº	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 2	79 215 740		70 507 524		79 215 742		70 507 529			70 507 528	
Actuators	Plain 1	Plain 161A R14,2		Plain 161A R25,4		Roller 161E R13,6		Roller 161E R24,1			Dummy roller 161F R22,2	
	-		*			A.		Ą		9		
Fixing positions	A	В	А	В	С	A	В	A	В	C	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 (41)	15,2100	15,2**	15,2 ***	20,5*13	20,5 ×××	20,5100	20,5+13	20,5 **2	20,412	20,4 "
Tripping point 83 161 6	14,8 *1	15 44.41	14,4 00	14,8**	14,9=	20,1 413	20,3 ^{cos}	19,710	20,1 40	20,2 ===	20,2 42	20,2 4
Part numbers for standard actuators	79 2	18 651										
Actuators Dummy roller 161G R21,8		**Telescopic Manual action plunger 161 L			n 16	1617		using 161		t for 1611 Part no.: 0602 118		
Fixing positions	A	В	D				_ D		. 4			
Coefficient	3	1,8	1				1					
Tripping point (except 83 161 6)		21,7 =07	21,511			18,35:06						
Tripping point 83 161 6	21,5 =2	21,5 ≈	21,5 :1									

Special adaptations

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