



V3 83161 Dual-current Dual-current 831618 Part number 83161801



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

	Type	Function	Connections
83161801	Dual-current 831618	I (Changeover)	W2
83161806	Dual-current 831618	I (Changeover)	W3
83161812	Dual-current 831618	I (Changeover)	W6A5
MADE TO ORDER	Dual-current 831618	I (Changeover)	W3R5 - W5 - W6D8 - W7A5 - 2W7A8
MADE TO ORDER	Dual-current 831618	R (Normally closed)	W2 - W3 - W3R5 - W5 - W6A5 - W6D8 - W7A5 - 2W7A8
MADE TO ORDER	Dual-current 831618	C (Normally open)	W2 - W3 - W3R5 - W5 - W6A5 - W6D8 - W7A5 - 2W7A8
MADE TO ORDER	Dual-current very low force 831619	I (Changeover)	W2
MADE TO ORDER	Dual-current very low force 831619	I (Changeover)	W3
MADE TO ORDER	Dual-current very low force 831619	I (Changeover)	W6A5
MADE TO ORDER	Dual-current very low force 831619	I (Changeover)	W3R5 - W5 - W6D8 - W7A5 - 2W7A8
MADE TO ORDER	Dual-current very low force 831619	R (Normally closed)	W2 - W3 - W3R5 - W5 - W6A5 - W6D8 - W7A5 - 2W7A8
MADE TO ORDER	Dual-current very low force 831619	C (Normally open)	W2 - W3 - W3R5 - W5 - W6A5 - W6D8 - W7A5 - 2W7A8
MADE TO ORDER	Ultra light dual-current 831619 SP 4136	I (changeover)	W2
MADE TO ORDER	Ultra light dual-current 831619 SP 4136	I (changeover)	W3
MADE TO ORDER	Ultra light dual-current 831619 SP 4136	I (changeover)	W6A5
MADE TO ORDER	Ultra light dual-current 831619 SP 4136	I (Changeover)	W3R5 - W5 - W6D8 - W7A5 - 2W7A8
MADE TO ORDER	Ultra light dual-current 831619 SP 4136	R (Normally closed)	W2 - W3 - W3R5 - W5 - W6A5 - W6D8 - W7A5 - 2W7A8
MADE TO ORDER	Ultra light dual-current 831619 SP 4136	C (Normally open)	W2 - W3 - W3R5 - W5 - W6A5 - W6D8 - W7A5 - 2W7A8

Electrical characteristics

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

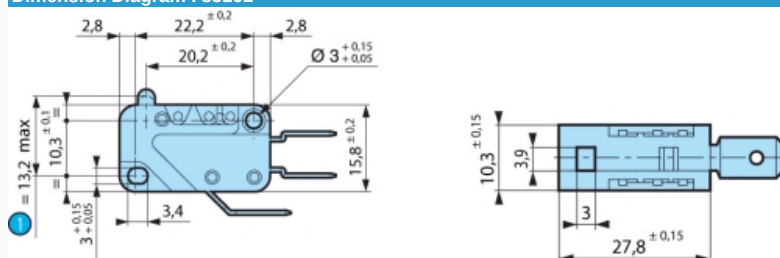
- Housings : polyamide or polyester
- Button : polyamide
- Contacts : gold alloy

Levers

- Flat : stainless steel
- Roller : stainless steel, glass-filled polyamide roller
- Other polyamides

Approvals : NF

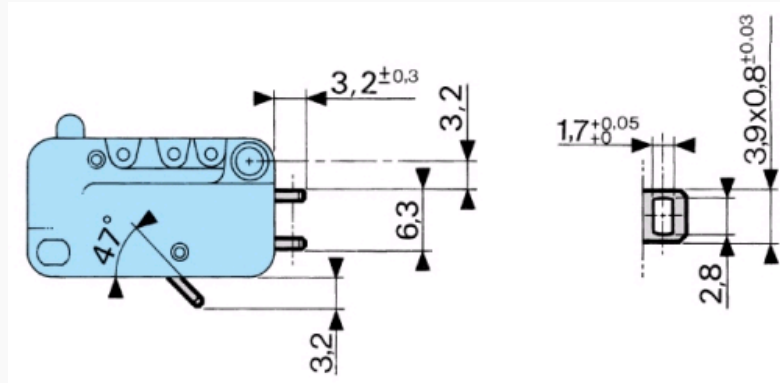
Dimension Diagram : 83161



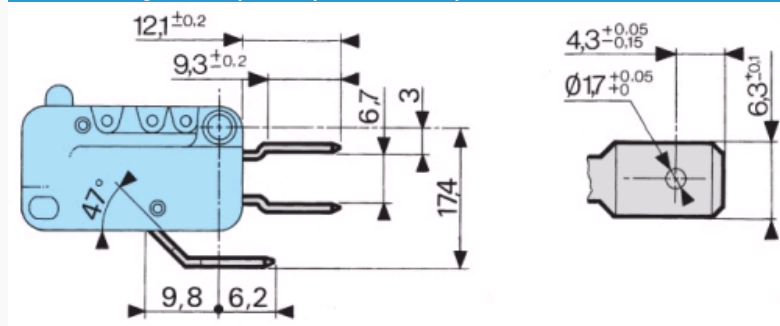
N° Legend

1 OL

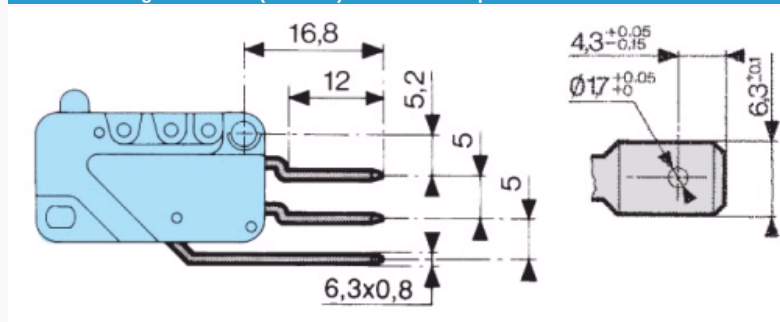
Dimension Diagram : W2 solder



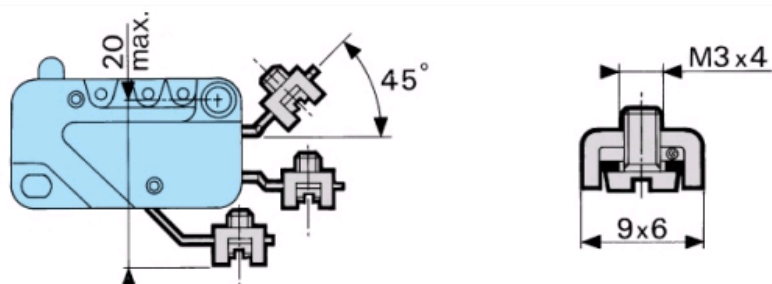
Dimension Diagram : W3 (6.3 x 0.8) for 6.35 mm clips



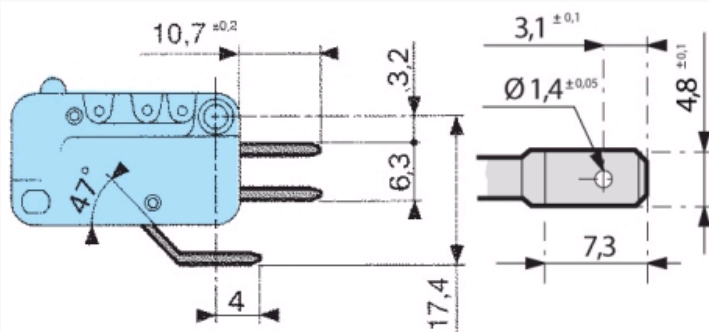
Dimension Diagram : W3R5 (6.3 x 0.8) for 6.35 mm clips



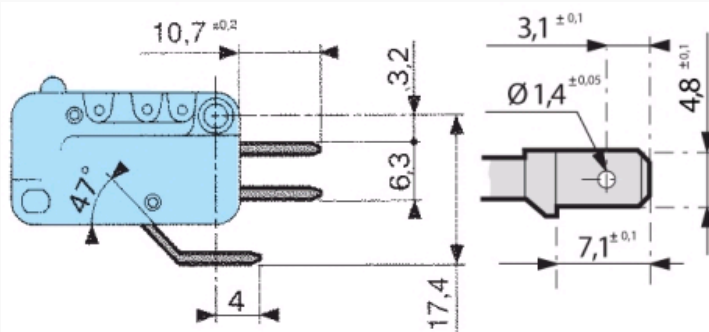
Dimension Diagram : W5 screw



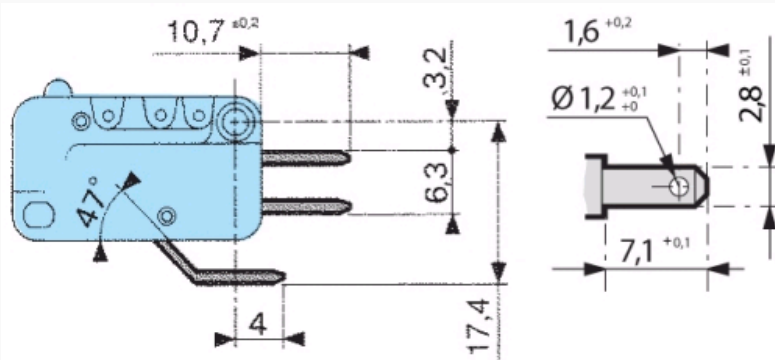
Dimension Diagram : W6A5 (4.8 x 0.5) for 4.8 mm clips



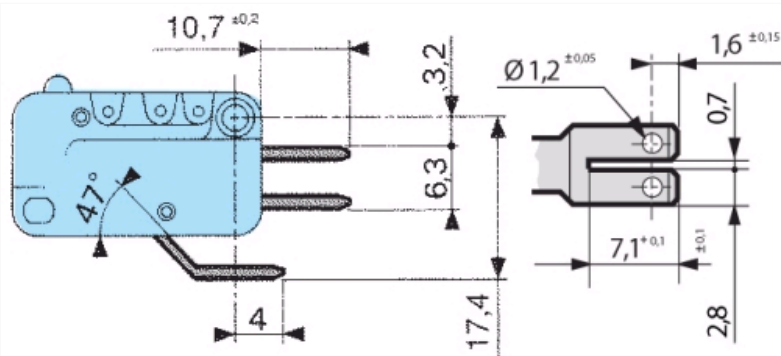
Dimension Diagram : W6D8 (4.8 x 0.8) for 4.8 mm clips



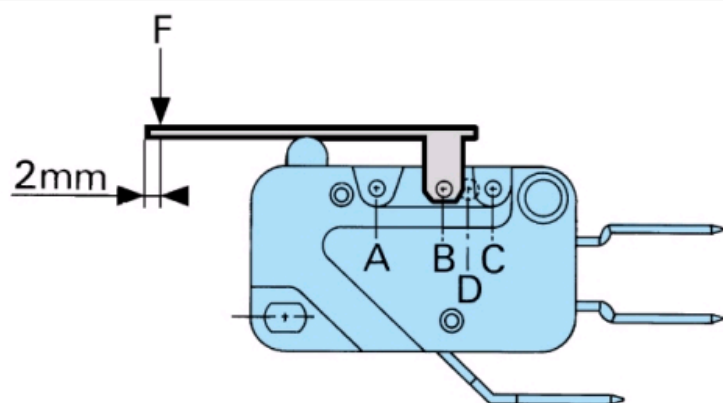
Dimension Diagram : W7A5 (2.8 x 0.5) for 2.8 mm clips



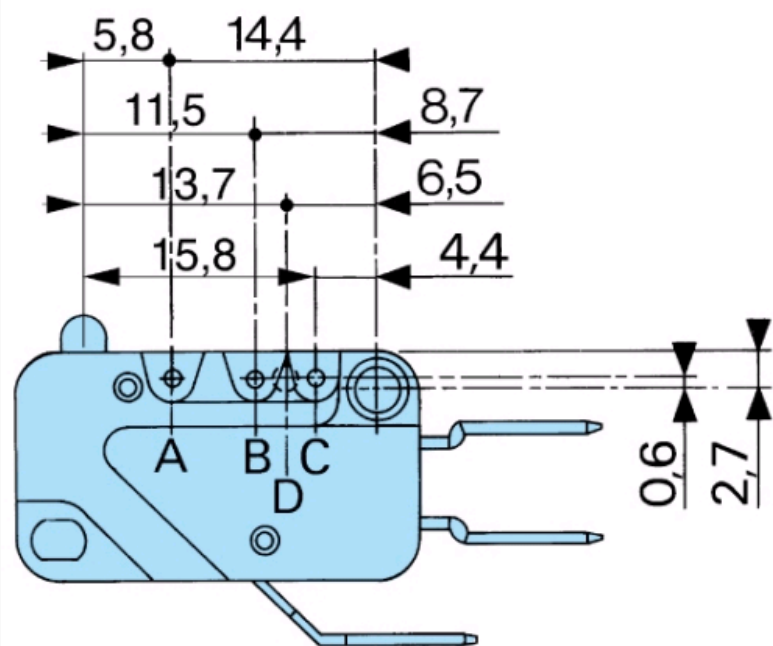
Dimension Diagram : 2W7A8 2 x (2.8 x 0.8) for 2.8 mm clips



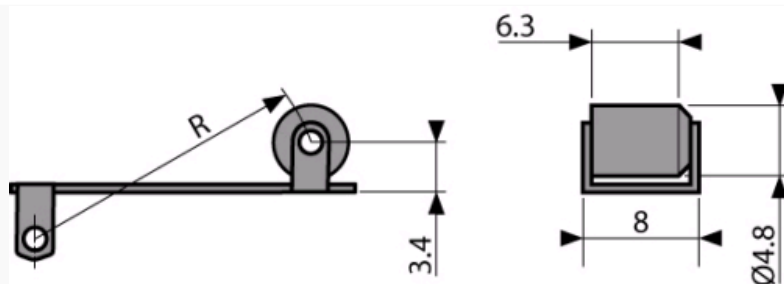
Dimension Diagram : Levers



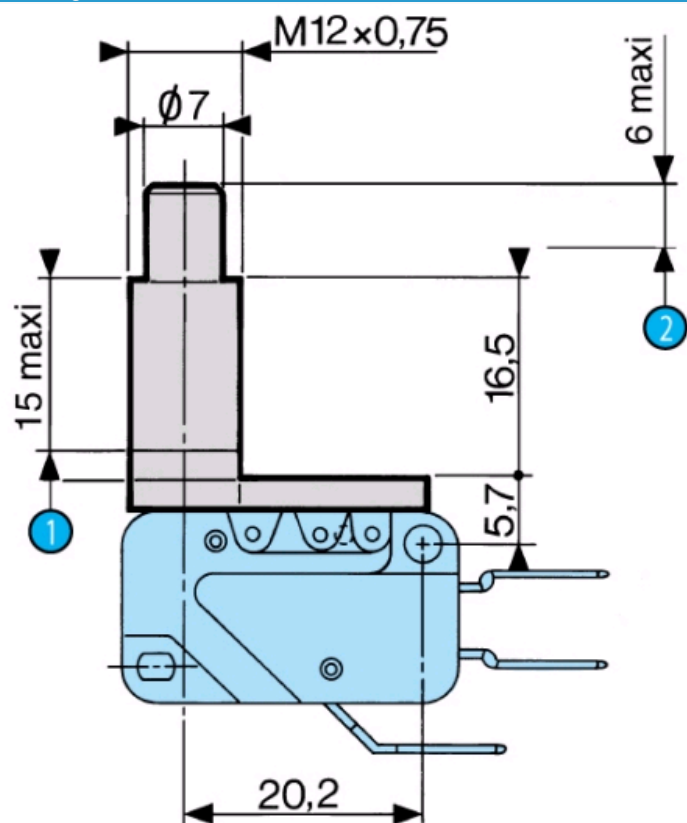
Dimension Diagram :



Dimension Diagram : 161 E

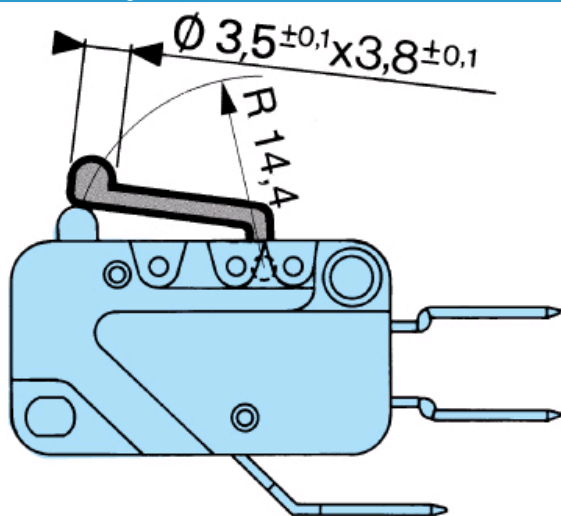


Dimension Diagram : 161 L

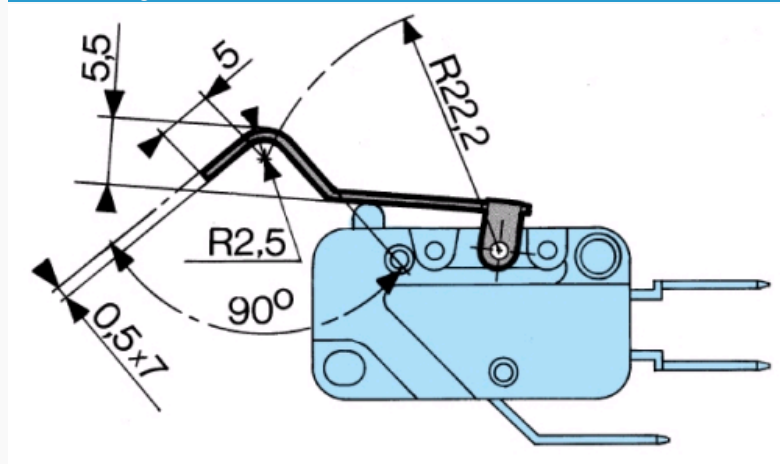


N°	Legend
1	Thread
2	Total travel

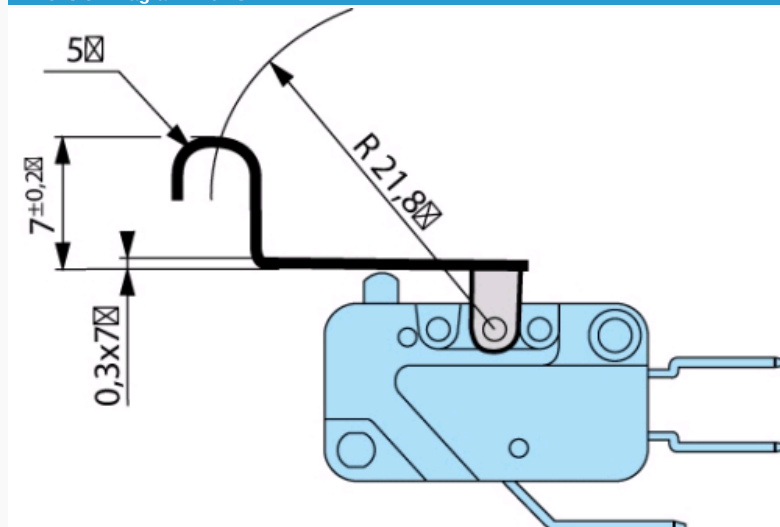
Dimension Diagram : 161 V



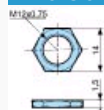
Dimension Diagram : 161 F



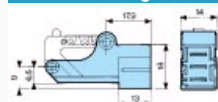
Dimension Diagram : 161 G



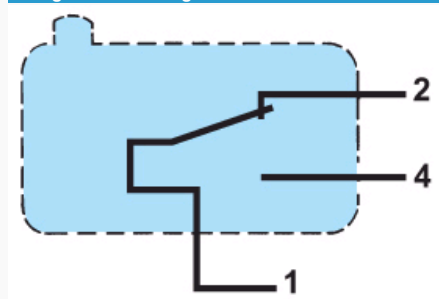
Dimension Diagram : Nut 70602118



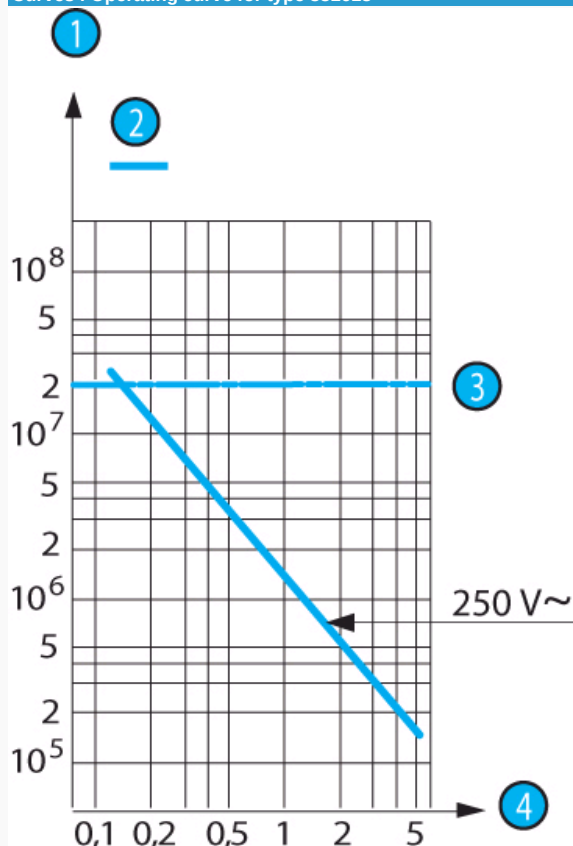
Dimension Diagram : Housing 161 J for connections W3 R5



: Single break changeover switch



Curves : Operating curve for type 831618



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

Part numbers for standard actuators					
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	A B C	A B
Coefficient	2 1	4 2 1,5	2 1	4 2 1,5	3 1,8
Tripping point (except 83 161 6)	15,2 ⁺¹² 15,2 ^{+0,41}	15,2 ⁺¹³ 15,2 ⁺¹² 15,2 ^{+0,8}	20,5 ⁺¹³ 20,5 ^{+0,8}	20,5 ⁺¹³ 20,5 ⁺¹² 20,5 ⁺¹²	20,4 ⁺¹² 20,4 ^{+0,7}
Tripping point 83 161 6	14,8 ⁺¹² 15 ^{+0,41}	14,4 ⁺¹³ 14,8 ⁺¹² 14,9 ^{+0,8}	20,1 ⁺¹³ 20,3 ^{+0,8}	19,7 ⁺¹³ 20,1 ⁺¹² 20,2 ⁺¹²	20,2 ⁺¹² 20,2 ⁺¹²
Part numbers for standard actuators					
Actuators	Dummy roller 161G R21,8	**Telescopic plunger 161 L	Manual action	161V	Housing 161J
Fixing positions	A B	D	D		
Coefficient	3 1,8	1	1		
Tripping point (except 83 161 6)	21,7 ⁺¹² 21,7 ^{+0,7}	21,5 ⁺¹²	18,35 ^{+0,6}		
Tripping point 83 161 6	21,5 ⁺¹² 21,5 ^{+0,7}	21,5 ⁺¹²			

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