



V4 8318 Sealed Standard 83186 Part number 83186003



IP 67 protection
 Nominal ratings 0.1 A to 10 A / 250 VAC
 Minimum rating 1 mA / 4 VDC
 Operating temperature -40 °C to +125 °C
 Choice of actuators with 2 possible fixing positions

	Type	Function	Connections
MADE TO ORDER	High-current 83180	I (changeover)	W2S
MADE TO ORDER	High-current 83180	I (changeover)	W7S
MADE TO ORDER	High-current 83180	I (changeover)	FD0
831800	High-current 83180	I (changeover)	X1A* - X1S* - X2A* - X2S* - X3A* - X3S* - FB0 - FG0 - CD0** - CB0** - CG0**
831806	High-current 83180	R (normally closed)	W2S - W7S - FD0 - FB0 - FG0 - CD0** - CB0** - CG0**
831808	High-current 83180	C (normally open)	W2S - W7S - FD0 - FB0 - FG0 - CD0** - CB0** - CG0**
MADE TO ORDER	Dual-current 83181	I (changeover)	W2S
MADE TO ORDER	Dual-current 83181	I (changeover)	W7S
MADE TO ORDER	Dual-current 83181	I (changeover)	FD0
831810	Dual-current 83181	I (changeover)	X1A* - X1S* - X2A* - X2S* - X3A* - X3S* - FB0 - FG0 - CD0** - CB0** - CG0**
831816	Dual-current 83181	R (normally closed)	W2S - W7S - FD0 - FB0 - FG0 - CD0** - CB0** - CG0**
831818	Dual-current 83181	C (normally open)	W2S - W7S - FD0 - FB0 - FG0 - CD0** - CB0** - CG0**
MADE TO ORDER	Medium current 83183	I (changeover)	W2S
MADE TO ORDER	Medium current 83183	I (changeover)	W7S
MADE TO ORDER	Medium current 83183	I (changeover)	FD0
831830	Medium current 83183	I (changeover)	X1A* - X1S* - X2A* - X2S* - X3A* - X3S* - FB0 - FG0 - CD0** - CB0** - CG0**
831836	Medium current 83183	R (normally closed)	W2S - W7S - FD0 - FB0 - FG0 - CD0** - CB0** - CG0**
831838	Medium current 83183	C (Normally open)	W2S - W7S - FD0 - FB0 - FG0 - CD0** - CB0** - CG0**
83186001	Standard 83186	I (changeover)	W2S
83186002	Standard 83186	I (changeover)	W7S
83186003	Standard 83186	I (changeover)	FD0
831860	Standard 83186	I (changeover)	X1A* - X1S* - X2A* - X2S* - X3A* - X3S* - FB0 - FG0 - CD0** - CB0** - CG0**
831866	Standard 83186	R (normally closed)	W2S - W7S - FD0 - FB0 - FG0 - CD0** - CB0** - CG0**
831868	Standard 83186	C (normally open)	W2S - W7S - FD0 - FB0 - FG0 - CD0** - CB0** - CG0**

Electrical characteristics

Rating nominal / 250 V (A)	6
Rating thermal / 250 V (A)	7,5
Mechanical characteristics	
Maximum operating force (N)	2,5
Min. Release force (N)	0,8
Maximum total travel force (N)	4,2
Max. permitted overtravel force (N)	10
Maximum rest position (mm)	9,3
Operating position (mm)	8,4 ±0,3
Maximum differential travel (mm)	0,1
Min. overtravel (mm)	0,6
Ambient operating temperature for blade version (°C)	-40 → +125
Ambient operating temperature for wires/cable version (°C)	-40 → +105
Mechanical life (operations)	2x10 ⁶
Contact gap (mm)	0,4
Weight (g) (tag version)	2

Additional specifications

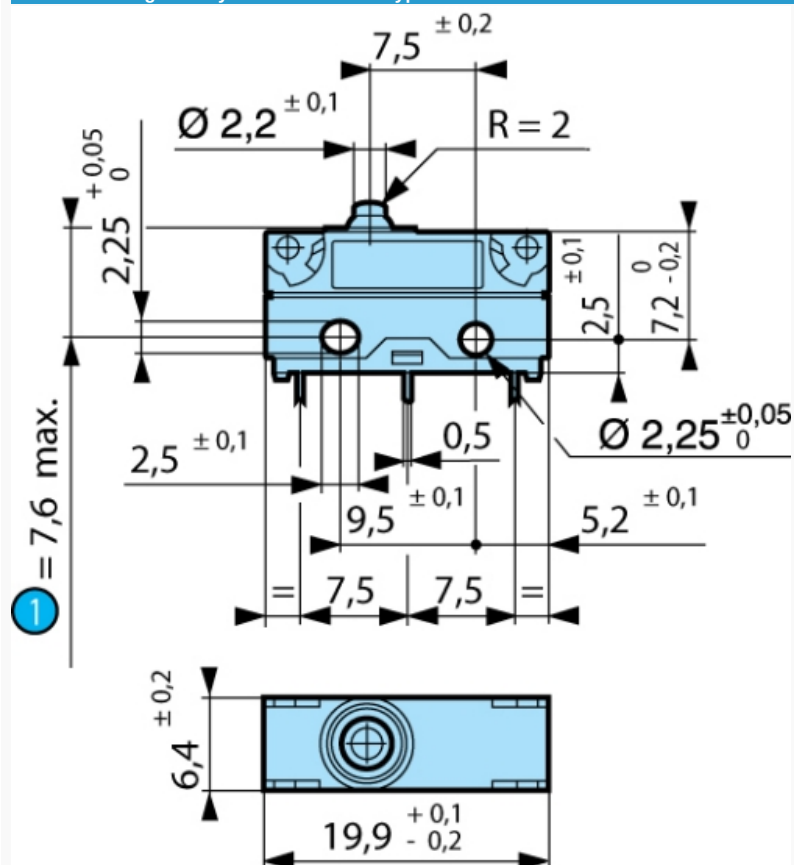
Components

Material

- Case : polyester UL 94VO
- Button : polyester
- Membrane : silicon
- Contacts : AgCdO or AgSnO₂ gold-plated AgNi (dual-current)

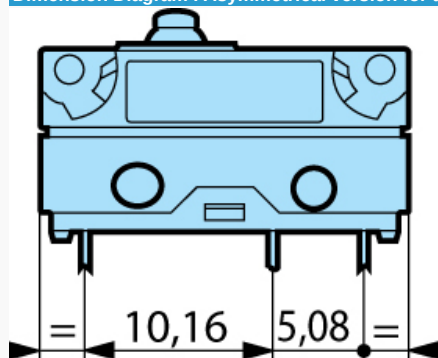
- Terminals : silver-plated, tinned brass
- Cable/Lead : PVC
- Levers
- Flat : stainless steel
- Roller : stainless steel, polyamide roller

Dimension Diagram : Symmetrical version types 83180 / 181 / 183 / 186

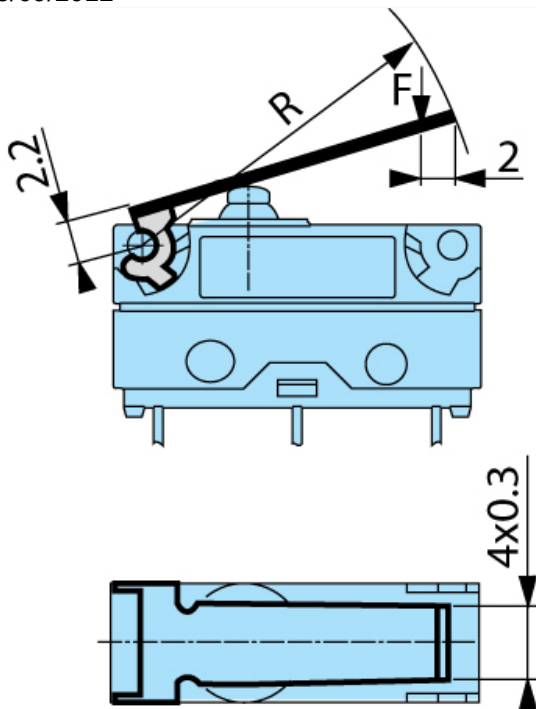


N°	Legend
1	OL = 7.6 max.

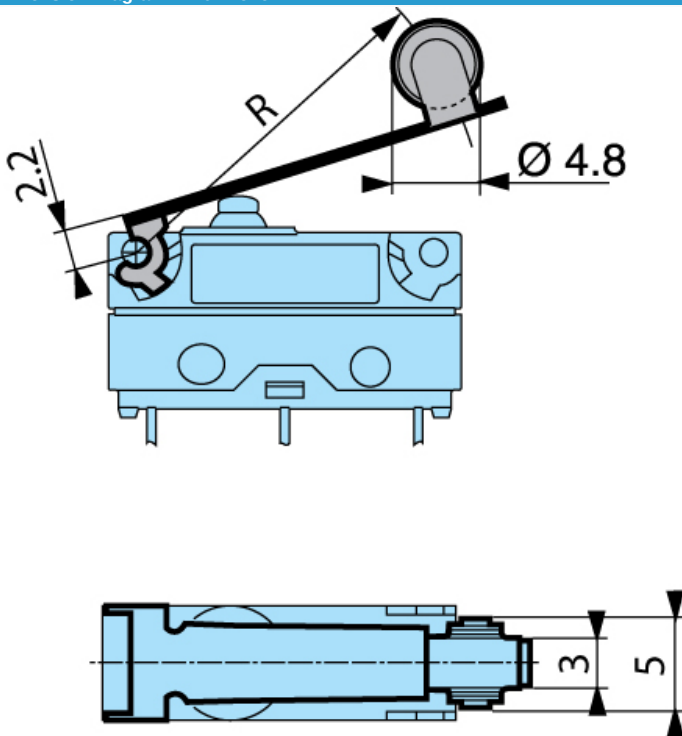
Dimension Diagram : Asymmetrical version for types 83180 / 181 / 183 / 186



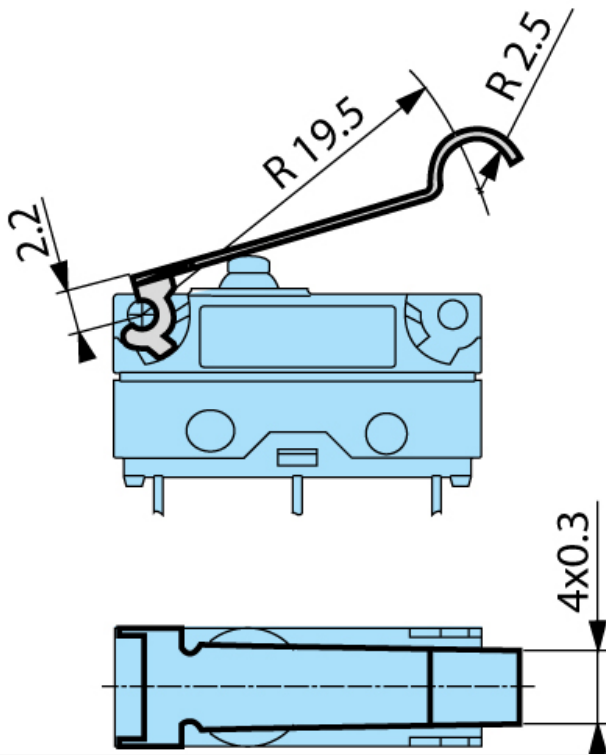
Dimension Diagram : 170AFlat



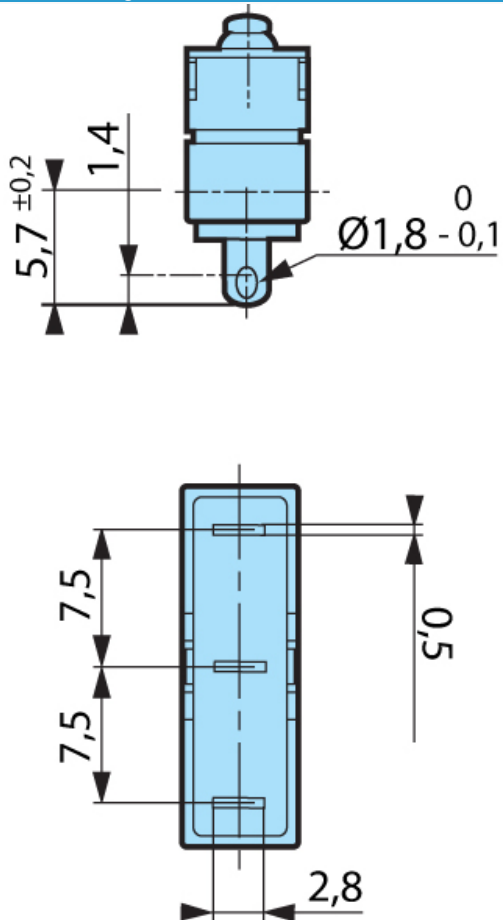
Dimension Diagram : 170ERoller



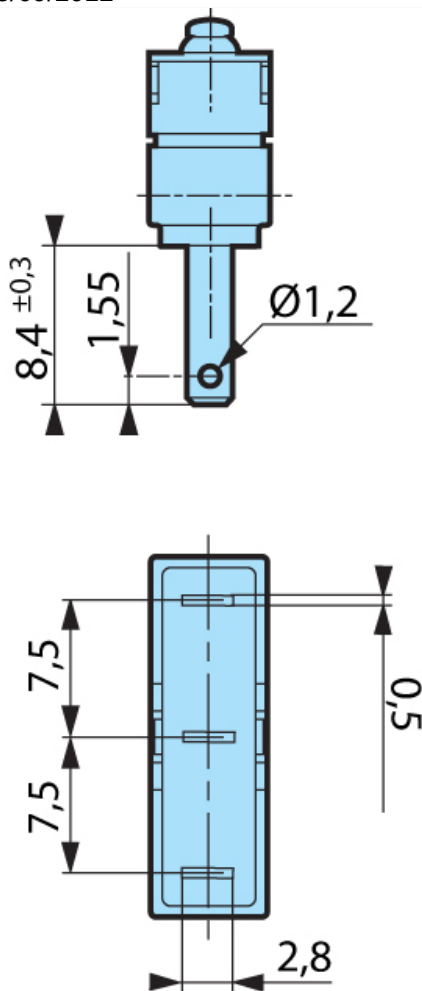
Dimension Diagram : 170FDummy roller



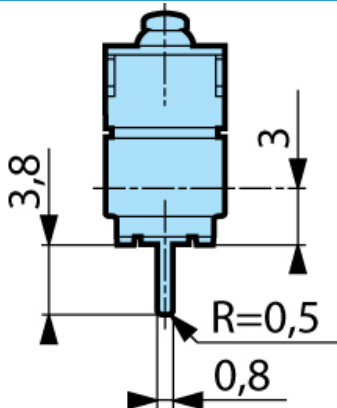
Dimension Diagram : W2SSolder



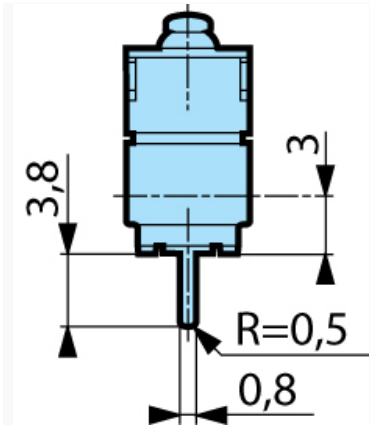
Dimension Diagram : W7SFaston 2.8 x 0.5



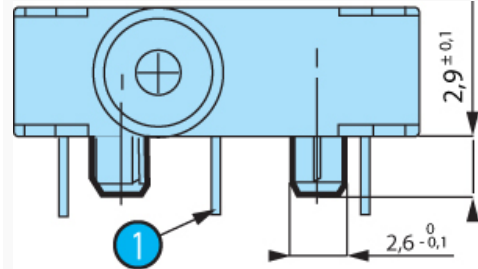
Dimension Diagram : X1A Straight PCB output



Dimension Diagram : X1S Straight PCB output

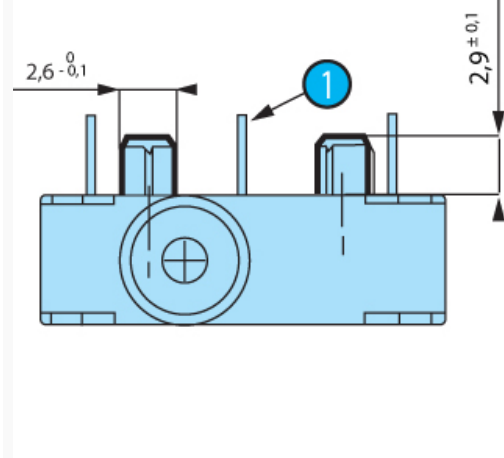


Dimension Diagram : Fixing pins



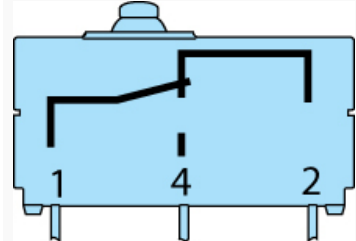
N°	Legend
1	X3 output

Dimension Diagram : Fixing pins

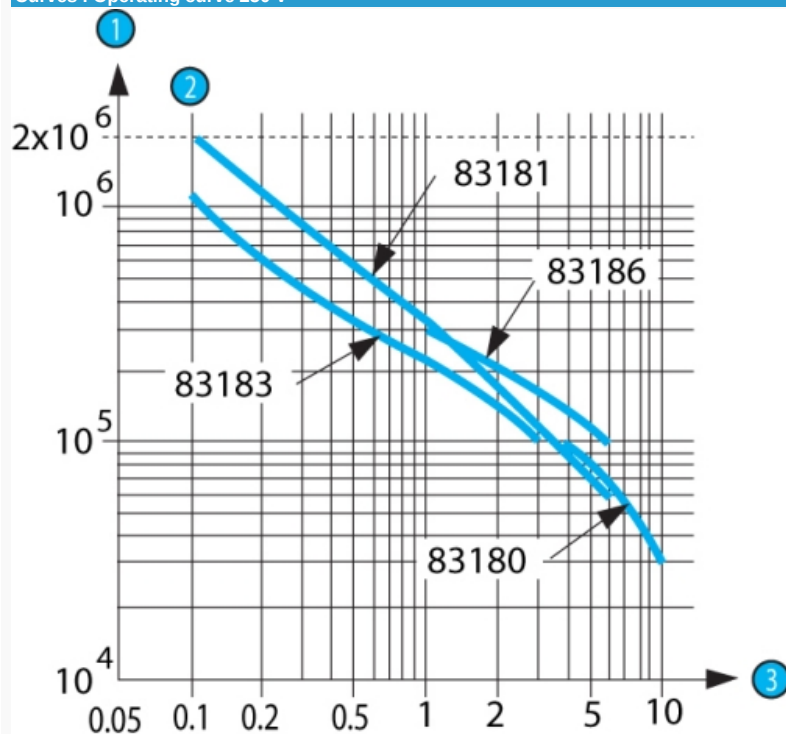


N°	Legend
1	X2 output

: Single break changeover switch



Curves : Operating curve 250 V



N°	Legend
1	Number of cycles
2	Resistive circuit
3	Current in Amps

Curves : Switch rating with DC supply

		83180	83181	83183	83186
12 V	Resistive	10 A	6 A	3 A	6 A
	Inductive L/R 5 ms	10 A	6 A	3 A	6 A
24 V	Resistive	10 A	6 A	3 A	6 A
	Inductive L/R 5 ms	5 A	5 A	3 A	5 A

Part numbers for standard actuators				
	79253327	79253326	79218454	
Actuators	Flat 170A R18.3	Flat 170A R24	Flat 170A R41	Roller 170E R20
Mounting position	A B	A B	A B	A B
Coefficient	3 1.5	4 2	7 3.5	3 1.5
Tripping point	10 ^{11.4} 9.2 ^{10.8}	10.7 ^{11.7} 9.6 ^{11.1}	12.7 ¹³ 10.6 ^{11.8}	15.5 ^{13.4} 14.5 ^{10.0}
83180			11 ^{11.5} 8.8 ^{11.8}	
83181 / 183 / 186			11.4 ^{11.5} 9.3 ^{11.8}	
Part numbers for standard actuators				
	79253329			
Actuators	Dummy roller 170F R19.5	Screw 170D *	Transverse roller 170 EL *	
Mounting position	A B			
Coefficient	3 1.5			
Tripping point	12.9 ^{11.5} 11.9 ^{10.7}			

Except where otherwise indicated, levers are supplied unmounted.
For factory mounting specify fixing position A or B.
* To special order

Special adaptations

- Special levers
- Specific fixings

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- Special leads, cables, cable harnesses
- NF - UL - cUL approvals