



V4 83170 Standard 831700 Part number 83170002



- Nominal ratings 0.1 A to 10 A / 250 VAC
- Minimum rating 1 mA / 4 VDC
- Operating temperature up to +125°C
- Conforming to standards EN 61058 and UL 1054
- Choice of actuators with 2 possible fixing positions

	Type	Function	Connections
83170002	Standard 831700	I (changeover)	W2
83170005	Standard 831700	I (changeover)	W7A5
83170008	Standard 831700	I (changeover)	X1
MADE TO ORDER	Standard 831700	I (changeover)	X1S - X2 - X2S - X3 - X3S
MADE TO ORDER	Standard 831700	R (normally closed)	W2 - W7A5
MADE TO ORDER	Standard 831700	C (normally open)	W2 - W7A5
MADE TO ORDER	Low force 831704	I (changeover)	W2
MADE TO ORDER	Low force 831704	I (changeover)	W7A5
MADE TO ORDER	Low force 831704	I (changeover)	X1
MADE TO ORDER	Low force 831704	I (changeover)	X1S - X2 - X2S - X3 - X3S
MADE TO ORDER	Low force 831704	R (normally closed) **	W2 - W7A5
MADE TO ORDER	Low force 831704	C (normally open) **	W2 - W7A5
83170802	Dual-current 831708	I (changeover)	W2
83170805	Dual-current 831708	I (changeover)	W7A5
83170808	Dual-current 831708	I (changeover)	X1
MADE TO ORDER	Dual-current 831708	I (changeover)	X1S - X2 - X2S - X3 - X3S
MADE TO ORDER	Dual-current 831708	R (normally closed) **	W2 - W7A5
MADE TO ORDER	Dual-current 831708	C (normally open) **	W2 - W7A5
MADE TO ORDER	Dual-current low force 831709	I (changeover)	W2
MADE TO ORDER	Dual-current low force 831709	I (changeover)	W7A5
MADE TO ORDER	Dual-current low force 831709	I (changeover)	X1
MADE TO ORDER	Dual-current low force 831709	I (changeover)	X1S - X2 - X2S - X3 - X3S
MADE TO ORDER	Dual-current low force 831709	R (normally closed) **	W2 - W7A5
MADE TO ORDER	Dual-current low force 831709	C (normally open) **	W2 - W7A5

Electrical characteristics

Rating nominal / 250 VAC (A)	10
Rating thermal / 250 VAC (A)	12,5
Mechanical characteristics	
Maximum operating force (N)	1,5
Min. Release force (N)	0,3
Maximum total travel force (N)	1,8
Max. permitted overtravel force (N)	10
Rest position max. (mm)	9,2
Operating position (mm)	8,4 ^{±0,3}
Maximum differential travel (mm)	0,15
Min. overtravel (mm)	0,5
Ambient operating temperature (°C)	-20 → +125
Mechanical life (operations)	10 ⁷⁺
Contact gap (mm)	0,4
Weight (g)	1,7

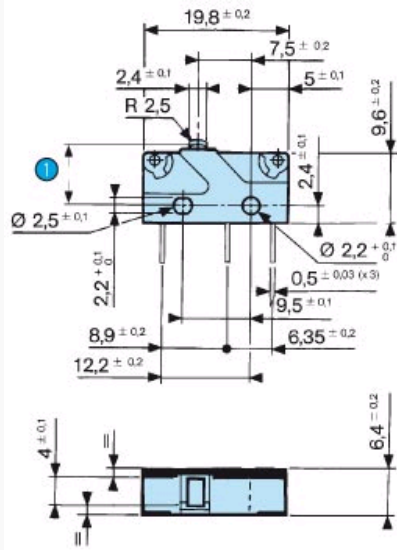
Additional specifications

- Case: polyester UL 94 VO
- Button: Glass-filled polyamide
- Contacts: AgNi, gold-plated AgNi (dual-current)
- Terminals: cupro-nickel (except W7A5 in brass)

- Flat: stainless steel
- Roller: stainless steel, polyamide roller

NF - UL - cUL

Dimension Diagram : 83170 Asymmetrical version



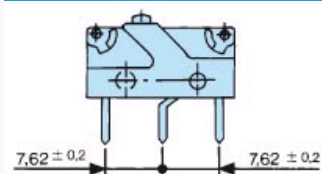
N°

1

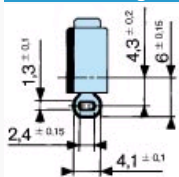
Legend

OL = 7.6

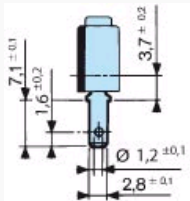
Dimension Diagram : 83170 Symmetrical version



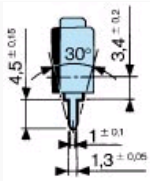
Dimension Diagram : W2



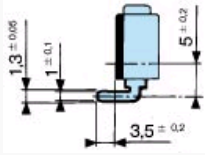
Dimension Diagram : W7A5



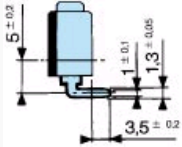
Dimension Diagram : X1 - X1S



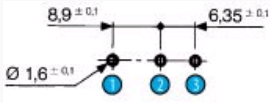
Dimension Diagram : X2 - X2S



Dimension Diagram : X3 - X3S

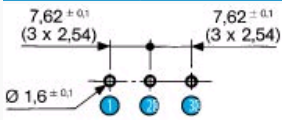


Dimension Diagram : Printed circuit board mounting Asymmetrical X1 - X2 - X3



N°	Legend
1	1.C
2	4.NO
3	2.NC

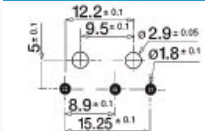
Dimension Diagram : Printed circuit board mounting Symmetrical X1S - X2S - X3S



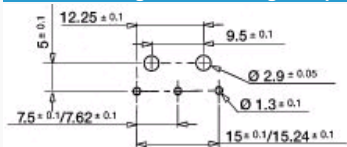
N°	Legend
1	1.C
2	4.NO
3	2.NC

Dimension Diagram :

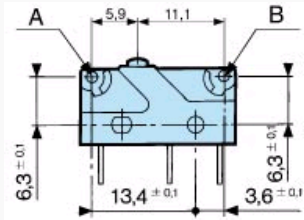
Dimension Diagram : Mounting on a printed circuit board with fixing pins Asymmetrical



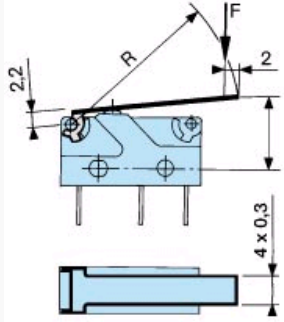
Dimension Diagram : Mounting on a printed circuit board with fixing pins Symmetrical



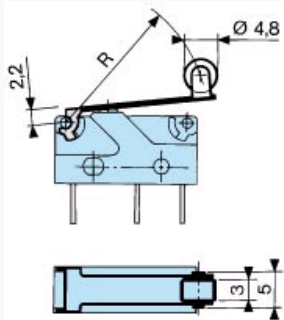
Dimension Diagram :



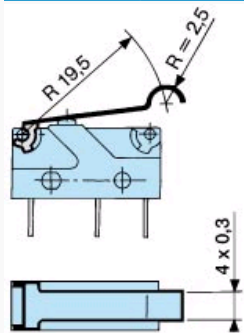
Dimension Diagram : 170A



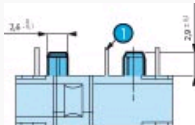
Dimension Diagram : 170E



Dimension Diagram : 170F

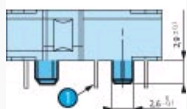


Dimension Diagram : Fixing pins



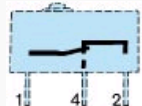
N°	Legend
1	Output on unit side: X2

Dimension Diagram : Fixing pins

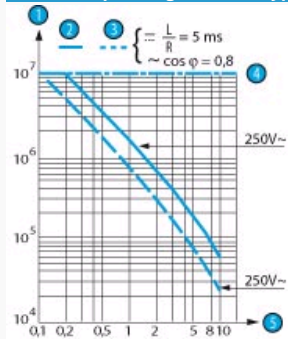


N°	Legend
1	Output on cover side: X3

: Single break changeover switch



Curves : Operating curve for type 831700



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	79253327	79253326	79253328	79218454	79253329	
Actuators	Flat 170A R18.3	Flat 170A R24	Flat 170A R41	Roller 170E R20	Dummy roller 170F	
Fixing positions						
Coefficient	A	B	A	B	A	B
Tripping point	3	1.5	4	2	3	1.5
	10 ^{±1.4}	9.2 ^{±0.9}	10.7 ^{±1.7}	9.6 ^{±1}	15.5 ^{±1.4}	14.5 ^{±0.9}
Levers	Screw 170D		Transverse roller 170EL			
	Characteristics available on request					

Special adaptations

- Special levers
- Special connections