



V4 83170 Dual-current 831708 Part number 83170805



- 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

Part numbers

	Type	Function	Connections
83170805	Dual-current 831708	I (changeover)	W7A5

Specifications

Electrical characteristics

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

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
Maximum rest position (mm)	9,2
Operating position (mm)	8,4 $\pm$ 0,3
Max. differential travel mm	0,15
Min. overtravel (mm)	0,5
Ambient operating temperature (°C)	-20 → +125
Mechanical life (operations)	10 ⁶
Contact gap (mm)	0,4
Weight (g)	1,7

Additional specifications

Components

Material

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

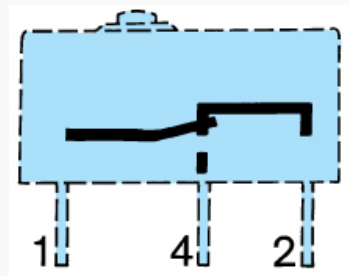
Levers

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

Approvals

NF - UL - cUL

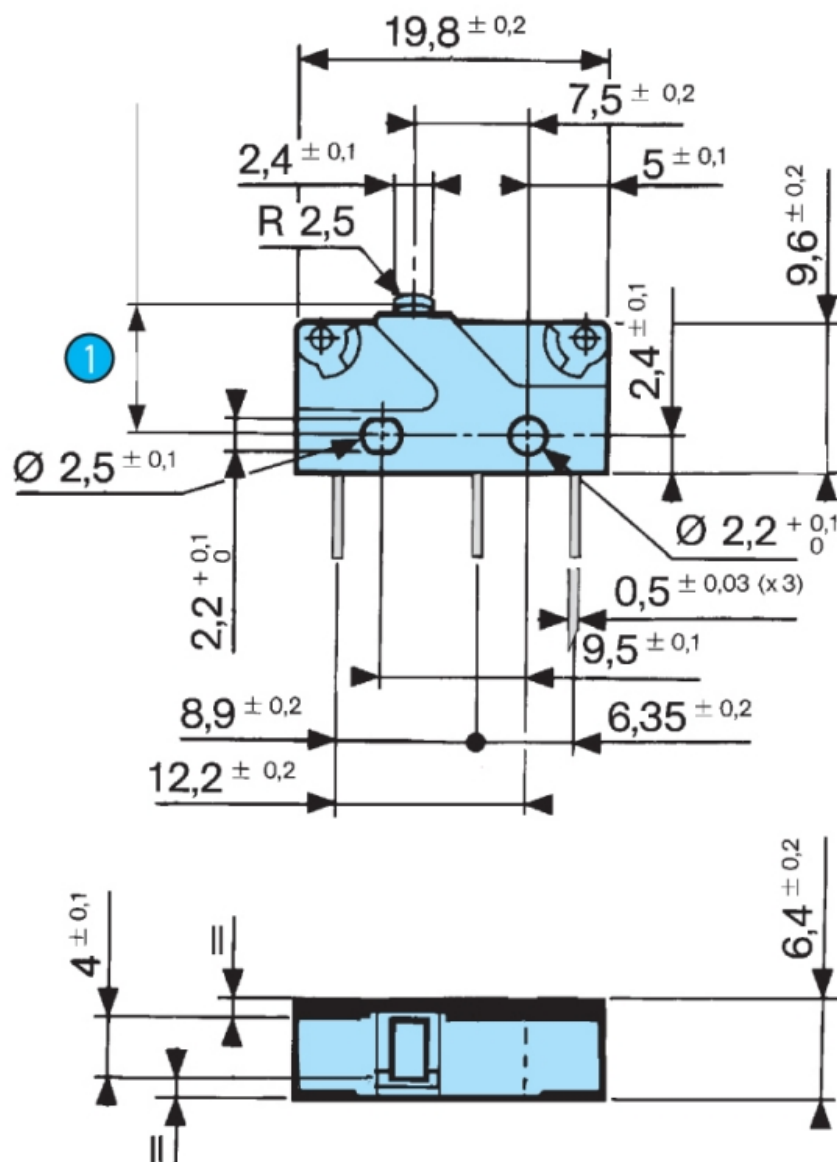
Principles



Dimensions (mm)

Product

83170
Asymmetrical version

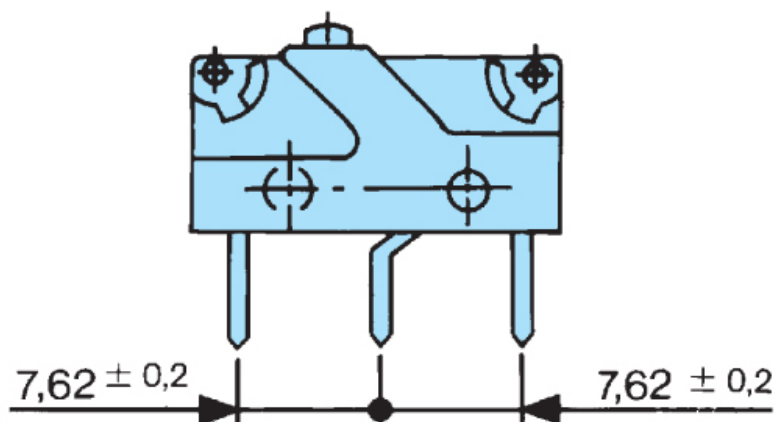


N°	Legend
①	OL = 7.6

Dimensions (mm)

Product

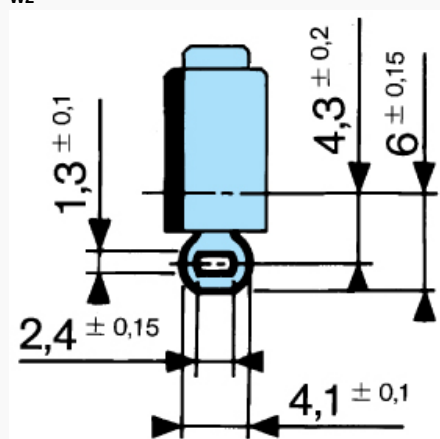
83170 Symmetrical version



Dimensions (mm)

Connections

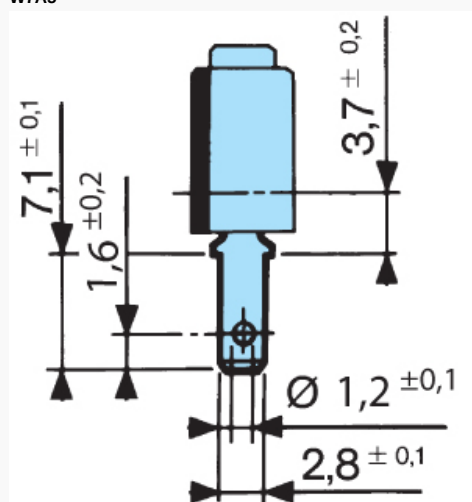
W2



Dimensions (mm)

Connections

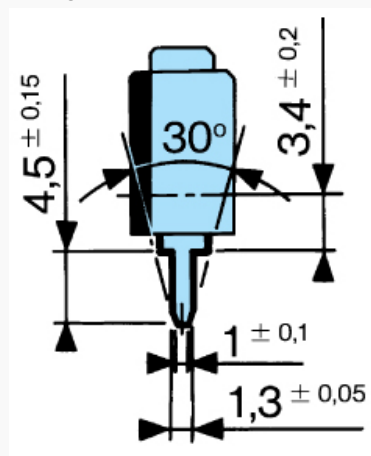
W7A5



Dimensions (mm)

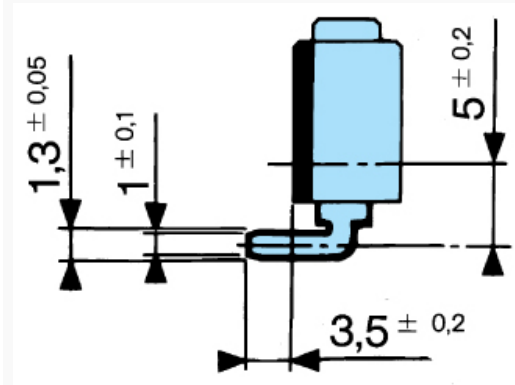
Connections

X1 - X1S



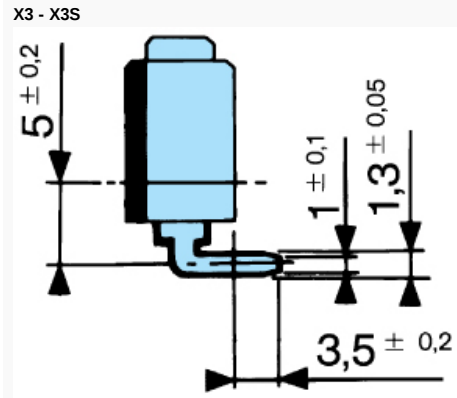
Dimensions (mm)

Connections



Dimensions (mm)

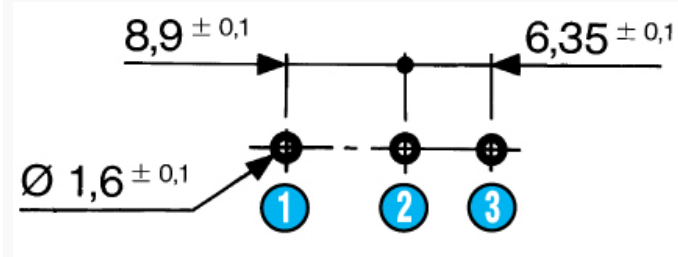
Connections



Dimensions (mm)

Drilling

Printed circuit board mounting
Asymmetrical X1 - X2 - X3

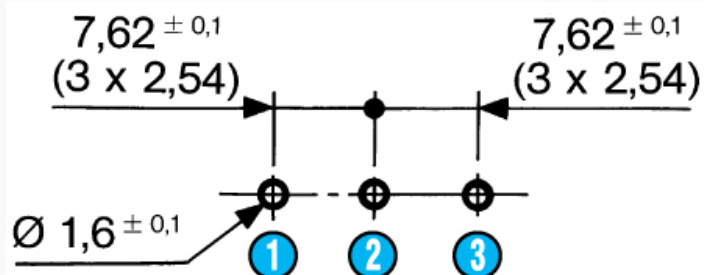


N°	Legend
1	1.C
2	4.NO
3	2.NC

Dimensions (mm)

Drilling

Printed circuit board mounting
Symmetrical X1S - X2S - X3S

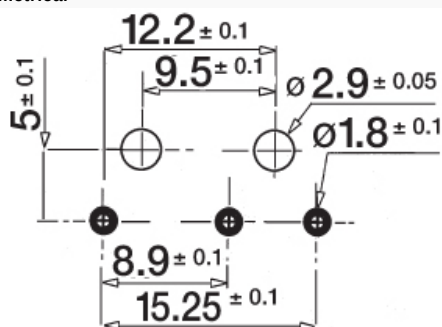


N°	Legend
1	1.C
2	4.NO
3	2.NC

Dimensions (mm)

Drilling

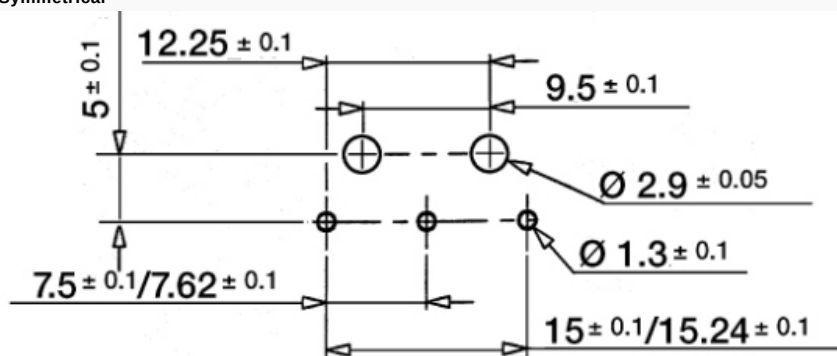
Mounting on a printed circuit board with fixing pins
Asymmetrical



Dimensions (mm)

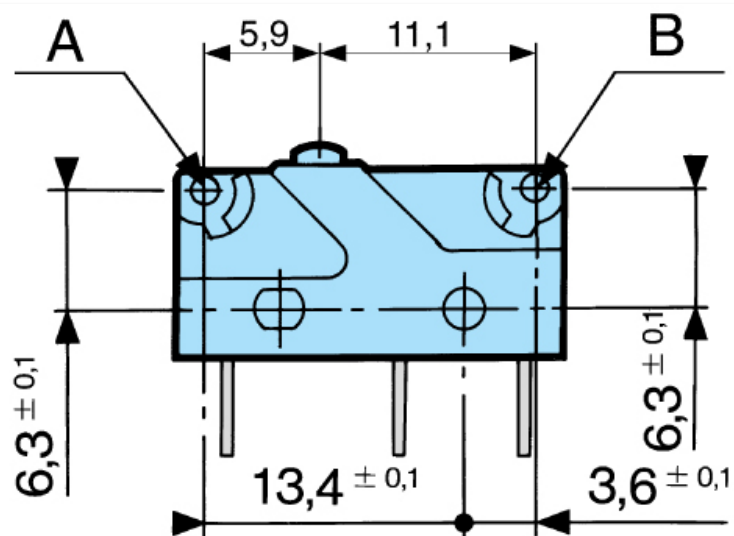
Drilling

Mounting on a printed circuit board with fixing pins
Symmetrical



Dimensions (mm)

Actuator mounting positions

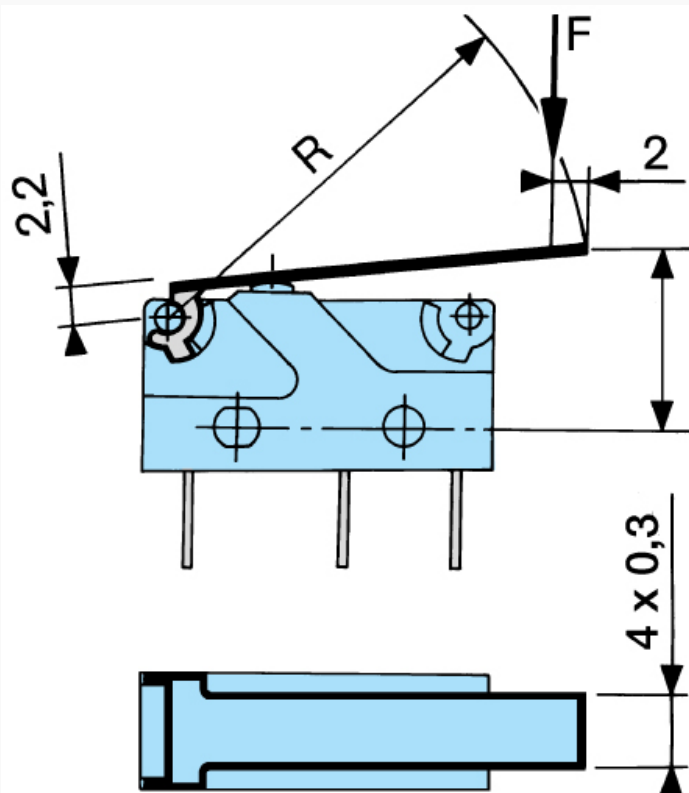


Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

Dimensions (mm)

Actuators

170A

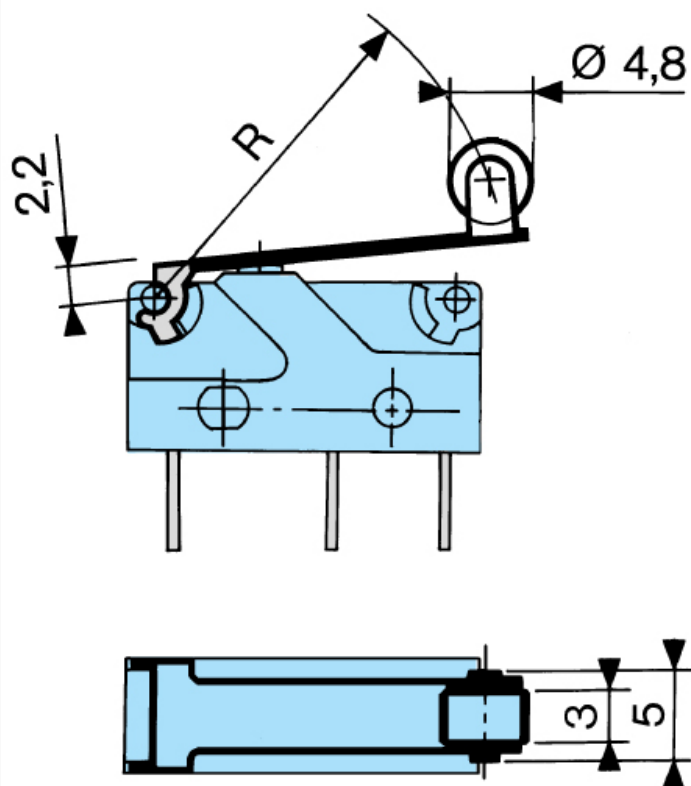


Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

Dimensions (mm)

Actuators

170E

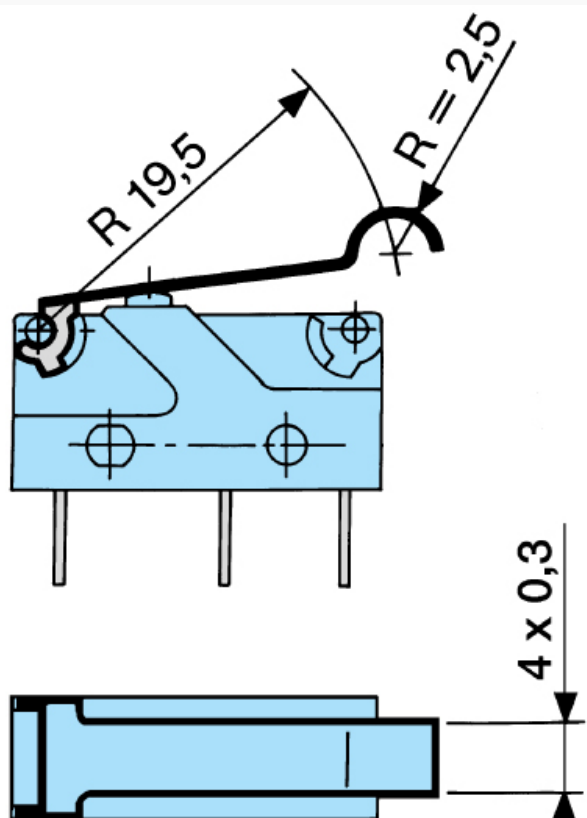


Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

Dimensions (mm)

Actuators

170F

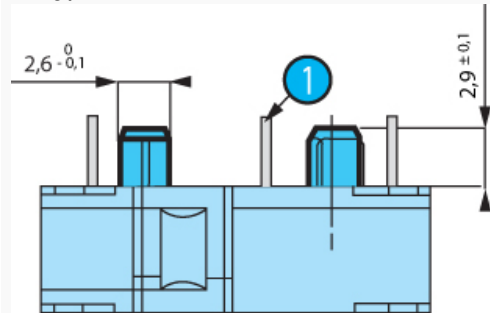


Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

Dimensions (mm)

Actuators

Fixing pins



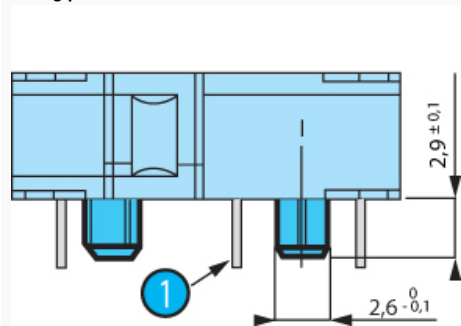
Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

N°	Legend
1	Output on unit side : X2

Dimensions (mm)

Actuators

Fixing pins

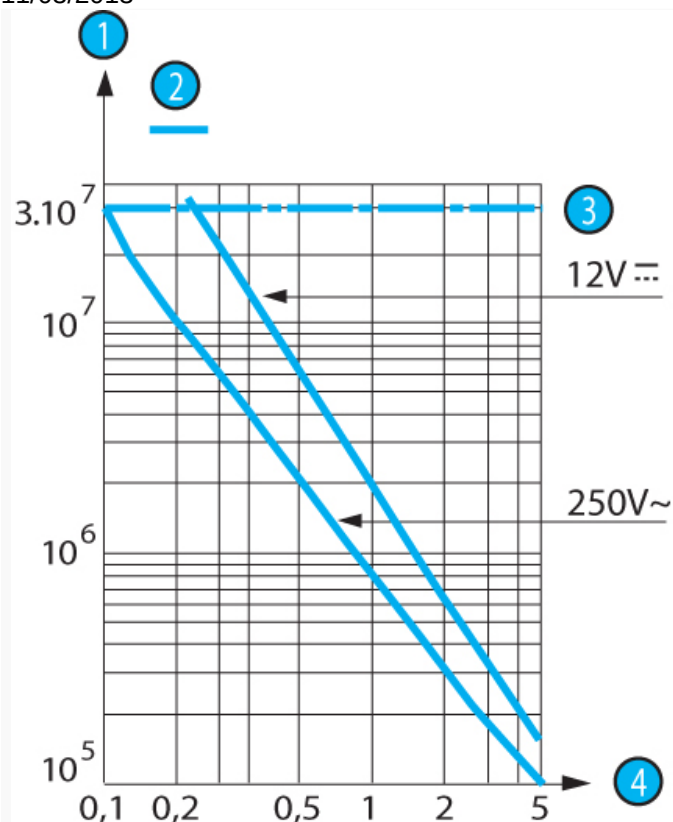


Fixing position Except where otherwise indicated, levers are supplied unmounted. For factory mounting, specify fixing position A or B. To calculate force : divide the switch force by the coefficient in the table. To calculate travel : multiply the switch travel by the same coefficient.

N°	Legend
1	Output on cover side : X3

Curves

Operating curve for types 831708 / 831709



Models 831708 and 831709 are designed to operate equally well on dual-current (1 mA 4 V minimum) or medium-current (5 A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life.

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

Connections

Actuators and fixing positions

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	A	B	A	B
Tripping point		3	1.5	4	2	7	3.5	3	1.5	3	1.5
		10 ^{+1.4}	9.2 ^{+0.9}	10.7 ^{+1.7}	9.6 ⁺¹	12.7 ^{+1.5}	10.6 ^{+1.8}	15.5 ^{+1.8}	14.5 ^{+1.8}	12.9 ^{+1.3}	11.9 ^{+1.3}
Levers		Screw 170D		Transverse roller 170EL							
											
Characteristics available on request											

Characteristics available on request

Other information

Mounting - Operation

See basic technical concepts

Product adaptations



- Special levers
- Special connections

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