

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

	Туре	Function	Connections
83186003	Standard 83186	I (changeover)	FD0

Electrical characteristics

Rating nominal / 250 VAC (A)	6
Rating thermal / 250 VAC (A)	7,5

Machanical characteristics

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) (tags version)	2

- * Please consult us for X1 / X2 / X3 connections ** Cable version for types 83181, 83183 and 83186

Additional specifications

Components

Material

- Case : polyester UL 94VO
- Button : polyester - Membrane : silicon
- Contacts : AgCdO or AgSnO2

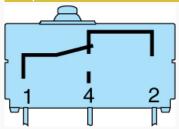
gold-plated AgNi (dual-current)
- Terminals : silver-plated, tinned brass

- Cable/Lead : PVC

Levers

- Flat : stainless steel

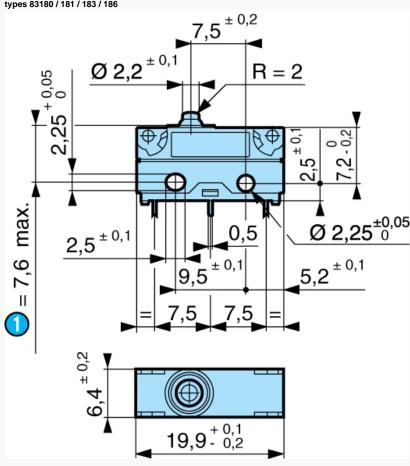
- Roller : stainless steel, polyamide roller



Dimensions (mm

Product

Symmetrical version types 83180 / 181 / 183 / 186

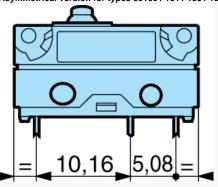


Nº	Legend
0	OL = 7.6 max.

Dimensions (mm)

Product

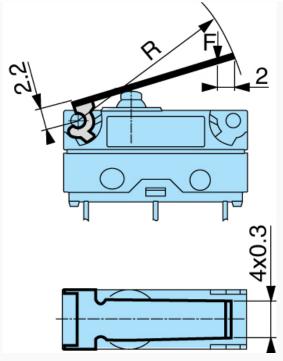
Asymmetrical version for types 83180 / 181 / 183 / 186



Dimensions (mm)

Actuators

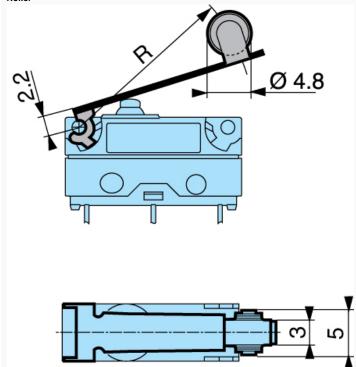
170A Flat



Dimensions (mm)

Actuators

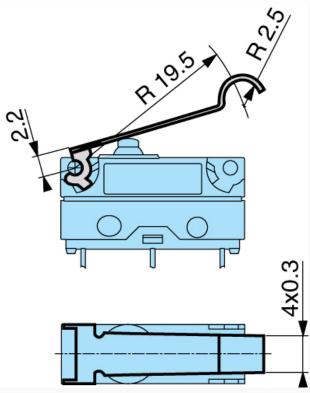
170E Roller



Dimensions (mm)

Actuators

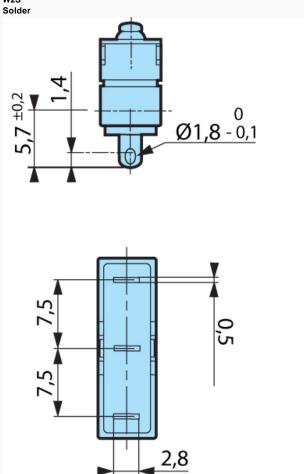
170 F Dummy roller 28/04/2015 www.crouzet.com



Dimensions (mm)

Connections

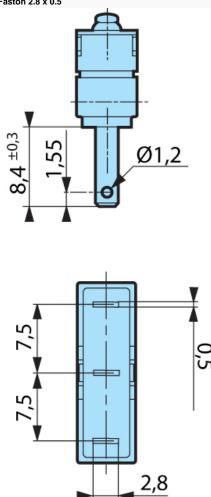
W2S



Dimensions (mm)

W7S

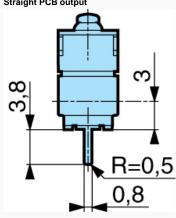
Faston 2.8 x 0.5



Dimensions (mm)

Connections

X1A Straight PCB output



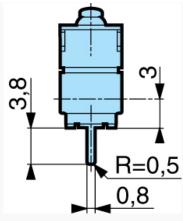
Dimensions (mm)

Connections

X1S

Straight PCB output

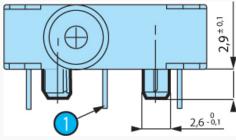
28/04/2015 www.crouzet.com



Dimensions (mm)

Mounting accessories

Fixing pins

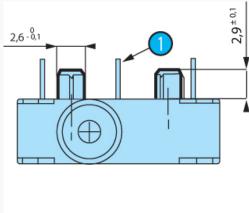


Nº	Legend
0	X3 output

Dimensions (mm)

Mounting accessories

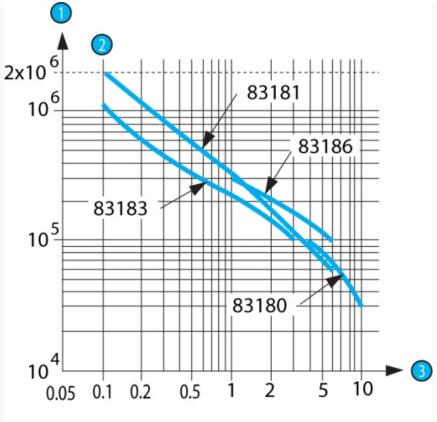
Fixing pins



Nº	Legend
0	X2 output

Curves

Operating curve 250 VAC



Model 83181 is designed to operate equally well on dual-current (1 mA 4 V minimum) or medium-current (6 A maximum) circuits. However, a given product should only be used to switch one type of circuit during its working life.

Nº	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

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Connections

Actuators and fixing positions

Part numbers for standard actuators	79253327	79253326		79218	454
Actuators	Flat 170A R18.3	Flat 170A R24	Flat 170A R41	Roller 17	0E R20
Mounting position	A B	A 8	A B	A 8	
Coefficient	3 1.5	4 2	7 3.5		.5
Tripping point	10 11.4 9.2 10.9	10.7 ±17 9.6 ±1	12.7 23 10.6 238	15.5 ±1.4 1	4.5 ±1.9
83180			11 ±3 8.8 ±1.6		
83181 / 183 / 186			11.4** 9.3***		
Part numbers for standard actuators	79253329				
Actuators	Dummy roller 170F R19.5	Screw 170D *	Transverse roller 170 EL *		
	•		Ban		
Mounting position	A B				
Coefficient	3 1.5				
Tripping point	12.9*** 11.9***				

Other information

Mounting - Operation
See basic technical concepts

Degree of protection - Tag version: →casing = IP67

- →terminals = IP00
 Lead/cable version :
 →output/casing = IP67

To calculate force: divide the switch force by the coefficient in the table. To calculate travel: multiply the switch travel by the same coefficient.



- Special levers
- Specific fixings
 Special leads, cables, cable harnesses
 NF UL cUL approvals