Double break

➜ PBX Secure

- Dimensions according to standard DIN 41 636 type F
- Positive break operation mechanism according to IEC 60947-5-1 Annex K
- Double break changeover switch with electrically separated circuits (form Zb)
- IP 40 or IP 67 / IP 65 versions
- Operating temperature between -50 and +85°C
- Long overtravel
- Standard or Low level version

Main specifications

Degree of protection mechanism - connection	Connections / Accessories	Standard 83240	Standard High force 83242	Low level 83241	Low level High force 83243
IP 40 - IP 00	W3	**83240000**	**83242000**	**83241000**	**83243000**
IP 40 - IP 00	W3 + Lever	**83240003**	**83242003**	**83241003**	●
IP 40 - IP 00	W3 + Lever + Mounting plate with holes	**83240004**	**83242004**	**83241004**	**83243004**
IP 40 - IP 00	W3 + Lever + Mounting plate with notches	**83240005**	**83242005**	●	●
IP 40 - IP 00	W3 with 90° angle	**83240010**	●	●	●
IP 40 - IP 00	W3 with 90° angle + Lever	**83240013**	●	●	●
IP 40 - IP 00	W3 with 90° angle + Lever + Mounting plate with holes	**83240014**	●	●	●
IP 40 - IP 00	W3 with 90° angle + Lever + Mounting plate with notches	**83240015**	●	●	●
IP 40 - IP 00	W5	**83240020**	**83242020**	**83241020**	**83243020**
IP 40 - IP 00	W5 + Lever	**83240023**	**83242023**	**83241023**	●
IP 40 - IP 00	W5 + Lever + Mounting plate with holes	**83240024**	**83242024**	**83241024**	●
IP 40 - IP 20	W5 + Protective cover	**83240030**	●	●	●
IP 40 - IP 20	W5 + Protective cover + Lever	**83240033**	●	●	●
IP 40 - IP 20	W5 + Protective cover + Lever + Mounting plate with holes	**83240034**	●	**83241034**	●
IP 67 / IP 65 - IP 00	W3	**83240200**	**83242200**	**83241200**	**83243200**
IP 67 / IP 65 - IP 00	W3 + Lever	**83240203**	●	**83241203**	●
IP 67 / IP 65 - IP 00	W3 with 90° angle	**83240210**	●	**83241210**	●
IP 67 / IP 65 - IP 00	W3 with 90° angle + Lever	**83240213**	●	**83241213**	●
IP 67 / IP 65 - IP 00	W5	**83240220**	**83242220**	**83241220**	**83243220**
IP 67 / IP 65 - IP 00	W5 + Lever	**83240223**	●	●	●
IP 67 / IP 65 - IP 00	W5 + Lever + Mounting plate with holes	**83240224**	**83242224**	●	●
Electrical characteristics					
Direct opening action		➜	➜		
Rating nominal / 250 V~ (A)		6	6	-	-
Rating nominal / 250 V⎓ (A)		0.6	0.6	-	-
Rating Thermal (A)		10	10	-	-
Operating range / 4 → 30 V⎓/~ (A)		-	-	0.001 → 0.1	0.001→ 0.1
Mechanical characteristics					
Maximum operating force (N)		4.5	6.5	4.5	6.5
Minimum positive opening force (N)		28	28	28	28
Maximum rest position (mm)		8.9	8.9	8.9	8.9
Operating position (mm)		6.6 $^{\pm 0.25}$ *	6.6 $^{\pm 0.25}$ *	6.6 $^{\pm 0.25}$ *	6.6 $^{\pm 0.25}$ *
Positive opening position (mm)		4.4 *	4.4 *	4.4 *	4.4 *
Maximum end of travel position (mm)		3.4 *	3.4 *	3.4 *	3.4 *
Differential travel (mm)		1 $^{\pm 0.3}$	1 $^{\pm 0.3}$	1 $^{\pm 0.3}$	1 $^{\pm 0.3}$
Operating temperature (°C)		-50 → +85	-50 → +85	-50 → +85	-50 → +85
Mechanical life (operations)		10^7 (IP40) 4x10^6 (IP 67)	10^7 (IP40) 4 x 10^6 (IP67)	10^7 (IP40) 4 x 10^6 (IP67)	10^7 (IP40) 4 x 10^6 (IP67)
Contact gap (mm)		2 x 1	2 x 1	2 x 1	2 x 1
Max. tightening torque (Nm)		1.3 on Ø 4.1 holes	1.3 on Ø 4.1 holes	1.3 on Ø 4.1 holes	1.3 on Ø 4.1 holes
Weight (g)		22 *	22 *	22 *	22 *
Comments					

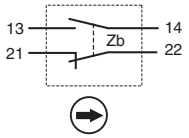
* Values given for versions without lever (in relation to the reference dimension X0 - See Dimensions section).

Stocked product | Product made to order | ● Available on request

Crouzet

Principles

Function
Four-terminal two-way snap-action contact element (form Zb) with positive break operation. The 2 contacts are electrically separated.



Product adaptations

- **Wire outputs, cable outputs**
- **Special levers and actuators**
- **Connections:**
  - **W3 terminals with angle between 0° and 90°**
  - **special add-on terminals**
- **Special protective cover**
- **UL CSA, CCC, GOST and VDE certification on request**

Additionnal characteristics

Components
Material
- Case/cover: PC GF 20 FR. (UL 94-V0, GWFI 960°C, NFF 16-101/102 I2F1)
- Contacts: AgNi for Standard version and AgPd for low level version
- Terminals: Brass
- Button membrane: Silicone
- Screws: zinc protected steel (stainless steel on request)

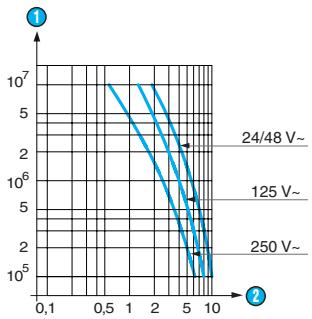
Conformity to standards
- Construction and performance according to IEC 60947-5-1
- Positive opening operation according to IEC 60947-5-1 Annex K
- Dimensions conforming to standard DIN 41 636 type F

- Insulation characteristics according to standard IEC 60947-5-1
* Impulse withstand voltage: Uimp = 4 KV
* Rated insulation voltage: Ui = 400 V
* Pollution degree = 3

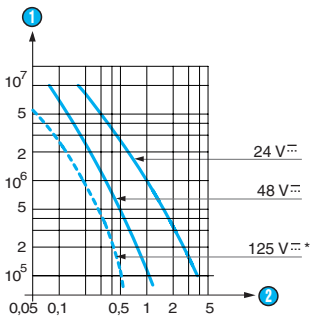
- Insulation characteristics according to standard EN 50124-1
* Impulse withstand voltage: Uimp = 2.5 KV
* Rated insulation voltage: Ui = 150 V
* Pollution degree = PD3A

Curves

Operating curve for category AC15



Operating curve for category DC13

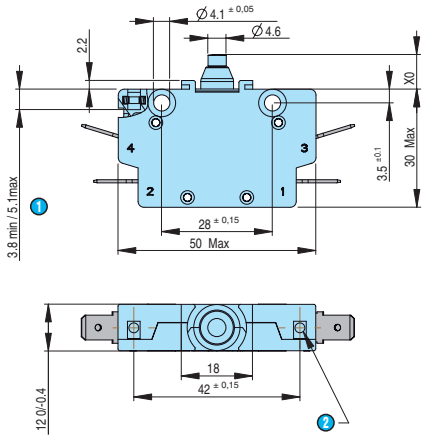


1 Number of operations
2 Current in Amps
* For IP67 versions used in 125 V DC, please consult us.

Dimensions (mm)

➜ Product

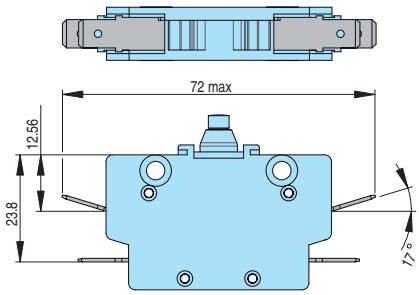
83240 - 83241 - 83242 - 83243



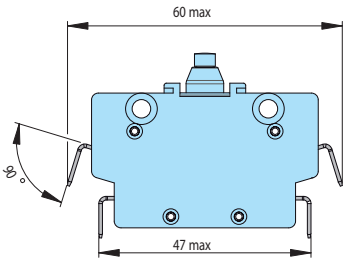
1. Fixing screw threaded length
2. Fixing nuts 2 x M3

➜ Connections

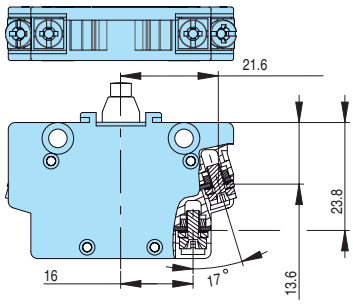
W3 for 6.35 mm x 0.8 mm female connector



W3 with 90° angle

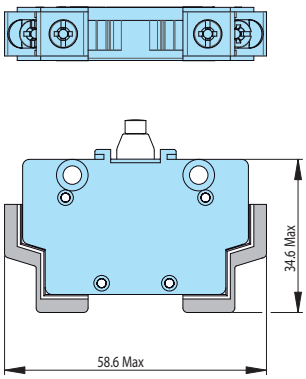


W5 with screws



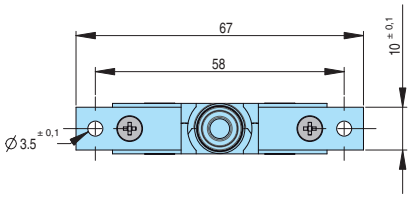
4 x M3 screws with saddle

W5 with screws and IP20 protective covers



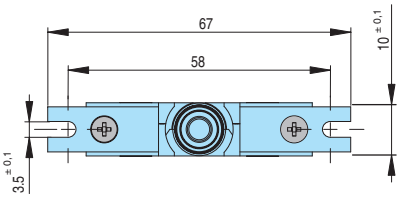
➜ Mounting accessories

Mounting plates with holes



Thickness: 1 mm

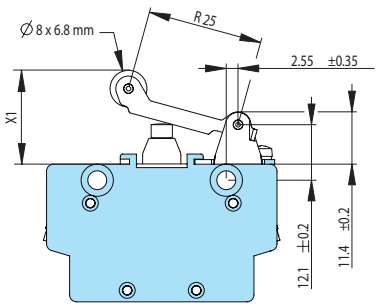
Mounting plates with notches



Thickness: 1 mm

➜ Actuators

Roller lever



Mechanical features of lever versions

With reference to dimension X1	83240/83241	83242/83243
Maximum operating force (N)	2,7	3,9
Min. positive opening force (N)	19	19
Maximum rest position (mm)	21	21
Operating position (mm)	$16,6^{\pm 0,6}$	$16,6^{\pm 0,6}$
Positive opening position (mm)	13,2	13,2
Maximum end of travel position (mm)	12	12
Differential travel (mm)	$1,8^{\pm 0,55}$	$1,8^{\pm 0,55}$

Other information

How to order

8324**X**xxx **(Contact/Force)**
0: Standard/4.5N
1: Low level/4.5N
2: Standard/6.5N High force
3: Low level/6.5N High force

8324x**X**xx **(Sealing)**
0: IP 40
2: IP 67

8324xx**X**x **(Connection)**
0: W3 terminals for 6.35 mm female connector
1: W3 90B terminals with 90° angle for 6.35 mm female connector
2: W5 terminals with screw
3: W5 terminals with screw and protective cover
4: W5 terminals supplied without screws

8324xxx**X (Accessory fitted)**
0: Without
1: Mounting plates with holes
2: Mounting plates with notches
3: Roller lever (without plate)
4: Roller lever with mounting plates with holes
5: Roller lever with mounting plates with notches

Example: A PBX with Standard contact (AgNi), 6.5 N force, IP 67 sealing, W3 terminals and Roller lever accessory with mounting plates with holes = **83242204**

Accessories supplied separately:
79552459: Mounting plates with holes
79552460: Mounting plates with notches
79552456: Roller lever (without plate)
79552457: Roller lever with mounting plates with holes
79552458: Roller lever with mounting plates with notches

LifeElectronics
Живое партнерство

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ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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