

**PBX Secure Standard83240 Part number 83240033**


- 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

**Part numbers**

Type	Degree of protection mechanism - connection	Connections / Accessories
83240033	Standard83240 IP 40 - IP 20	W5 + Protective cover + Lever

**Specifications**
**Electrical characteristics**

Direct opening action	
Rating nominal / 250 VAC (A)	6
Rating nominal / 250 VDC (A)	0.6
Rating thermal (A)	10
Operating range / 4 → 30 VDC/AC (A)	-

**Mechanical characteristics**

Maximum operating force (N)	4,5
Minimum positive opening force (N)	28
Maximum rest position (mm)	8,9
Operating position (mm)	6,6 ±0,25 *
Positive opening position (mm)	4,4 *
Maximum end of travel position (mm)	3,4 *
Differential travel (mm)	1 ±0,3
Operating temperature (°C)	-50 → +85
Mechanical life (operations)	10 <sup>7</sup> (IP40) 4x10 <sup>6</sup> (IP 67)
Contact gap (mm)	2 x 1
Max. tightening torque (Nm)	1.3 on Ø 4.1 holes
Weight (g)	22 *

**Comments**

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

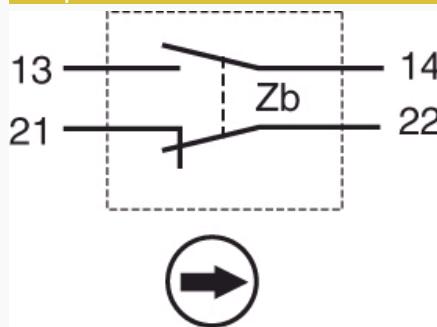
**Additional characteristics**
**Components**
**Material**

- 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

## Principles



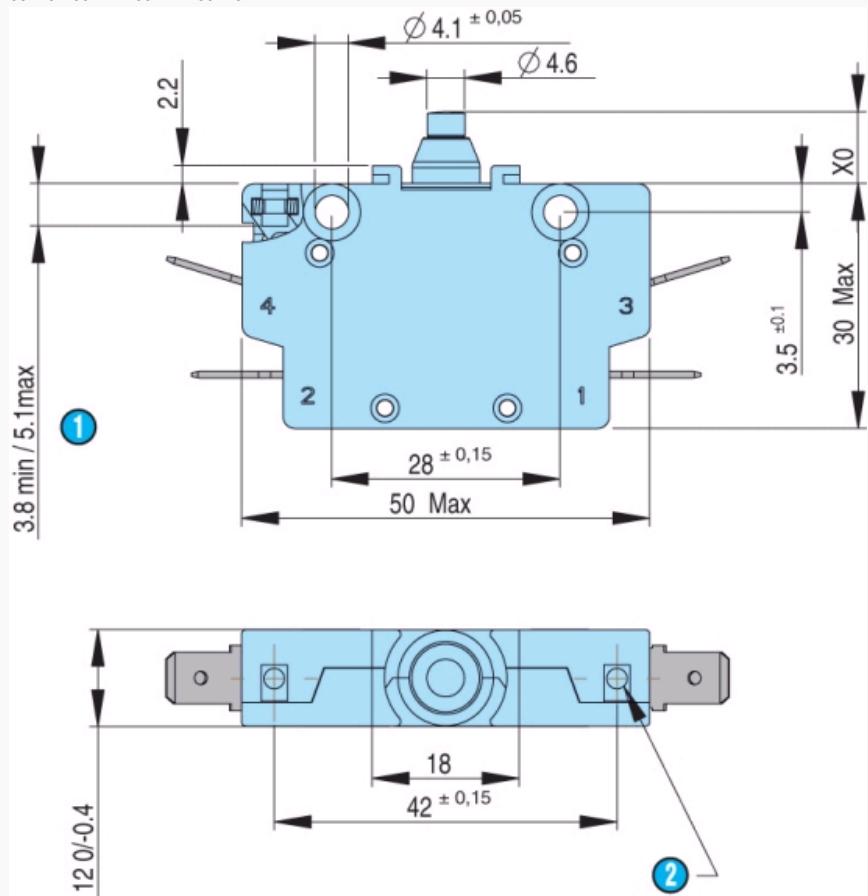
## Function

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

## Dimensions (mm)

## Product

83240 - 83241 - 83242 - 83243

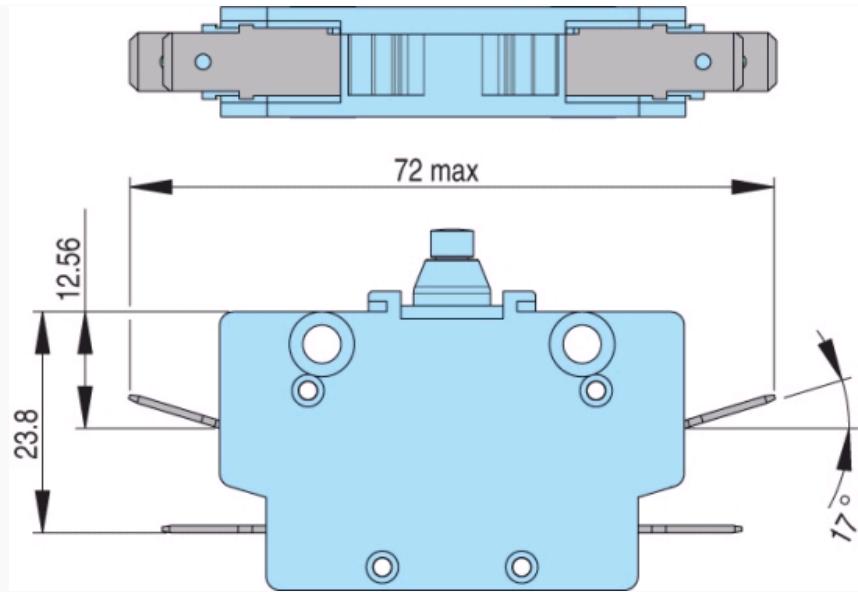


Nº	Legend
1	Fixing screw threaded length
2	Fixing nuts 2 x M3

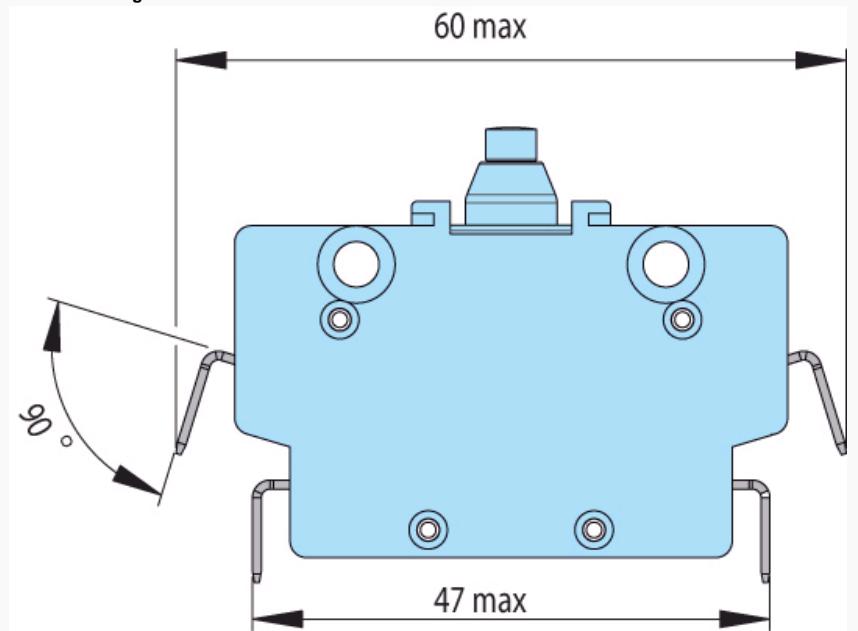
## Dimensions (mm)

## Connections

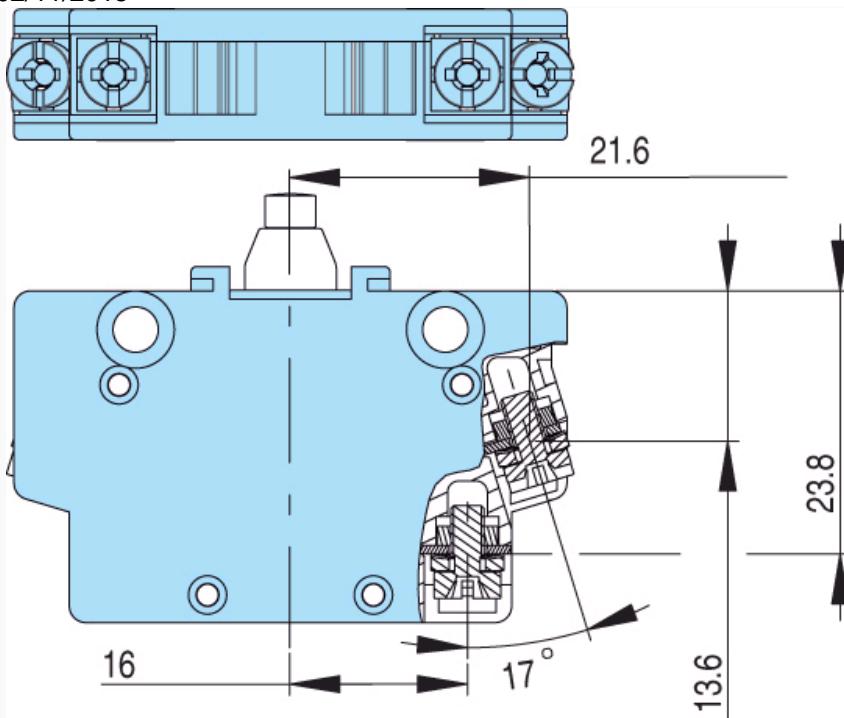
W3 for 6.35 mm x 0,8 mm female connector

**Dimensions (mm)****Connections**

W3 with 90° angle

**Dimensions (mm)****Connections**

W5 with screws

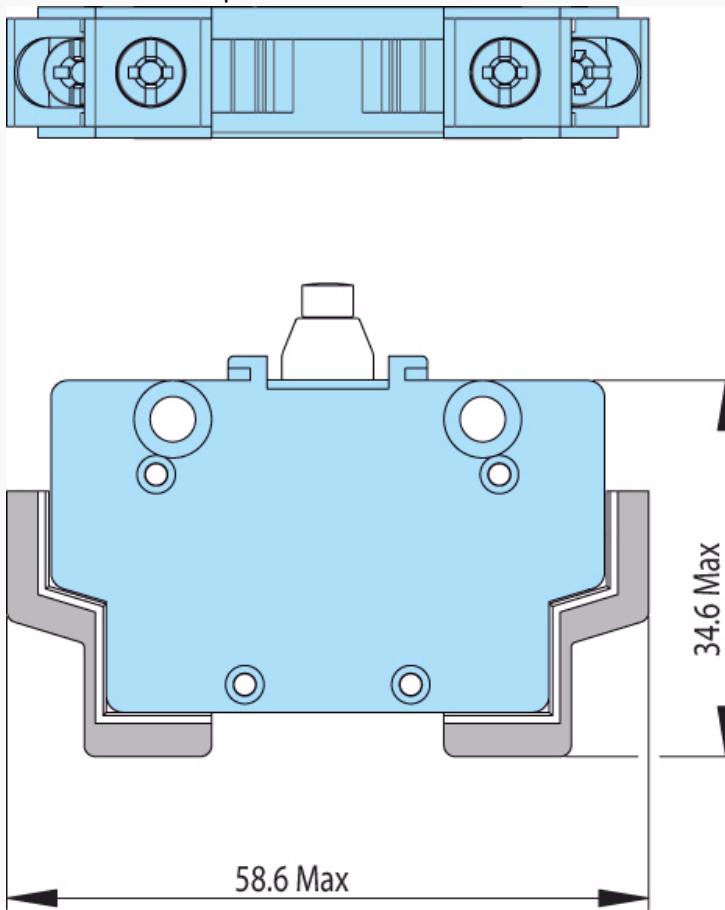


4 x M3 screws with saddle

#### Dimensions (mm)

#### Connections

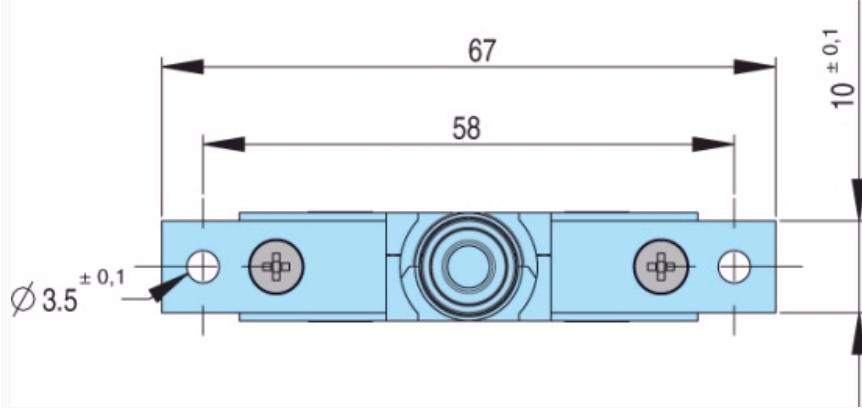
#### W5 with screws and IP20 protective covers



4 x M3 screws with saddle

#### Dimensions (mm)

## Mounting plates with holes

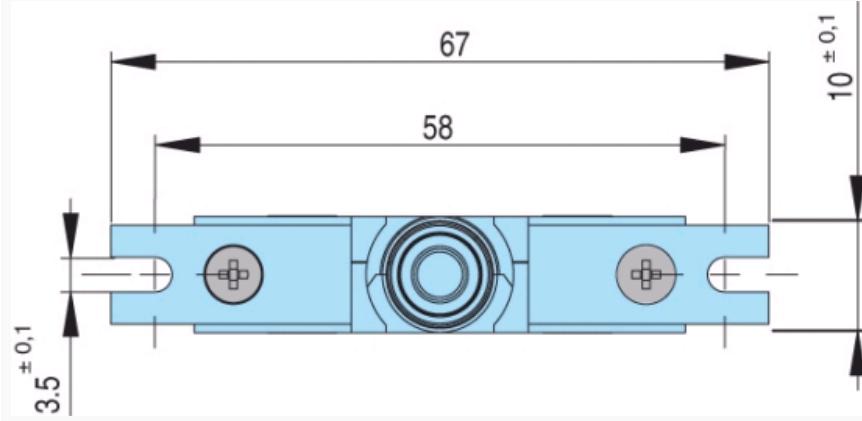


Thickness : 1 mm

## Dimensions (mm)

## Mounting accessories

## Mounting plates with notches

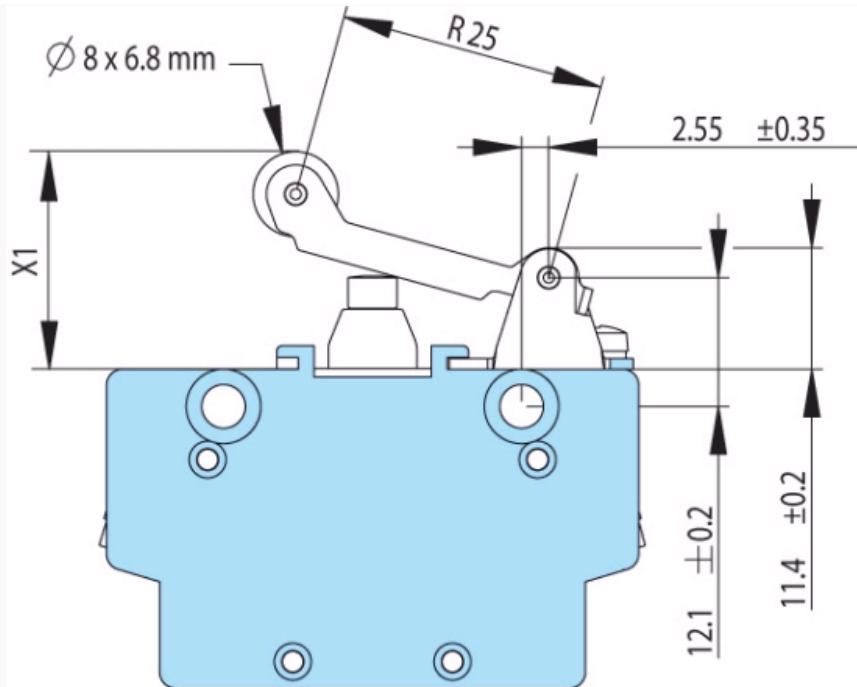


Thickness : 1 mm

## Dimensions (mm)

## Actuators

## Roller lever



Thickness : 1 mm

#### Dimensions (mm)

##### Actuators

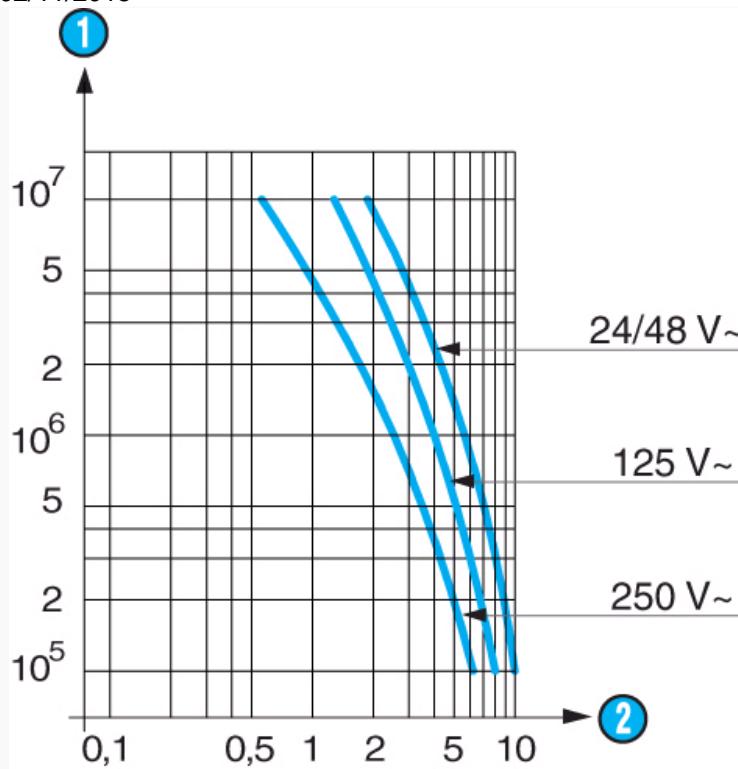
##### Mechanical features of lever versions

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 ±0,6	16,6 ±0,6
Positive opening position (mm)	13,2	13,2
Maximum end of travel position (mm)	12	12
Differential travel (mm)	1,8 ±0,55	1,8 ±0,55

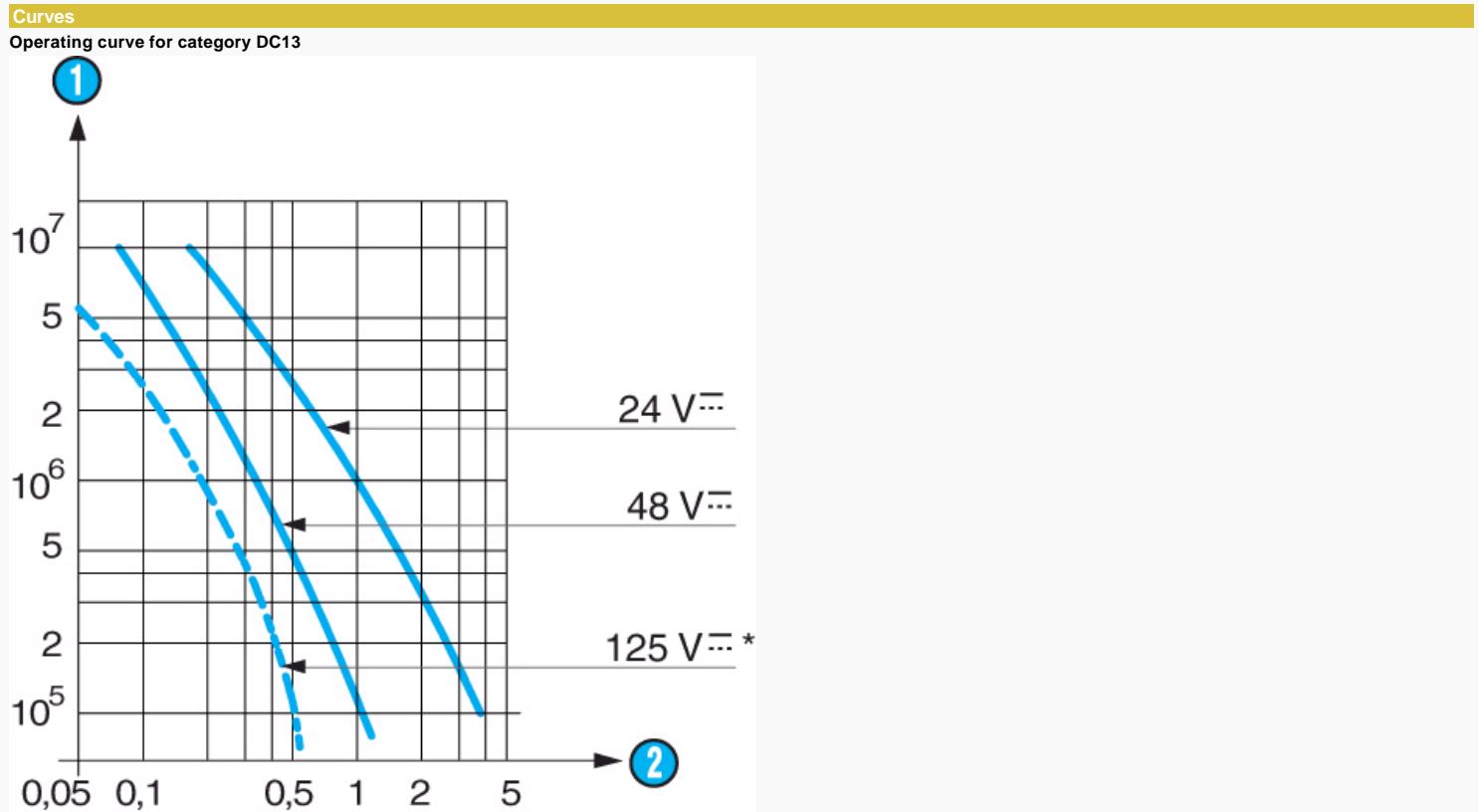
Thickness : 1 mm

#### Curves

##### Operating curve for category AC15



Nº	Legend
1	Number of operations
2	Current in Amps



\* For IP67 versions used in 125 V DC, please consult us.

Nº	Legend
1	Number of operations

**Product coding 8324 x x x x****How to order****8324XXXX (Contact/Force)**

0 : Standard/4.5N  
 1 : Low level/4.5N  
 2 : Standard/6.5N High force  
 3 : Low level/6.5N High force

**8324xXx (Sealing)**

0 : IP 40  
 2 : IP 67

**8324xxXx (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

**8324xxxX (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

**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

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Crouzet:](#)

[83240033](#)