



## BN80-10Z



- Long life
- Flat design
- 1 Reed contacts
- 44 mm x 13 mm x 9 mm
- Non-contact principle
- Thermoplastic enclosure

- Actuating surface marked by protrusion
- Actuating distance up to 60 mm depending on actuating magnet and version

### Data

#### Ordering data

Product type description	BN 80-10Z
Article number (order number)	101055844
EAN (European Article Number)	4030661010021
eCl@ss number, Version 9.0	27-27-01-05

#### General data

Product name	BN 80
Active principle	Magnetic drive
Housing construction form	Block
Enclosure material	Glass-fibre, reinforced thermoplastic
Active area	Plastic
Gross weight	25 g

#### General data - Features

Number of shutters	1
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#### Mechanical data

Actuating panels	lateral
Active area	lateral
Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
	0 mm ... 32 mm
	BP 8 = 3 ... 8 mm
	BP 10 = 6 ... 12 mm
	2 x BP 10 = 12 ... 20 mm
	BP 15 = 8 ... 14 mm
Switch distance S <sub>n</sub>	2 x BP 15 = 12 ... 22 mm
	2 x BP 34 = 12 ... 26 mm
	BP 20 = 12 ... 24 mm
	BP 31 = 12 ... 24 mm
	BP 11 = 22 ... 28 mm
	BP 12 = 24 ... 32 mm
Notice (Switch distance)	Actuating distance up to 32 mm depending on version and actuating magnet

Sn)

**Mechanical data - Connection technique**

Terminal Connector	Cable
Length of cable	1 m
Wire cross-section	0.3 mm <sup>2</sup>
Wire cross-section	23 AWG
Material of the Cable mantle	PVC

**Mechanical data - Dimensions**

Height of sensor	13 mm
Length of sensor	9 mm
Width of sensor	44 mm

**Ambient conditions**

Protection class	IP67
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+75 °C
Restistance to shock	15 g, on sine wave oscillation
Resistant to vibration	15 g, on sine wave oscillation

**Electrical data**

Voltage type	AC (alternating current) DC (direct current)
Switching voltage, maximum	250 VAC
Switching voltage, maximum	250 VDC
Switching current, maximum	0.5 A
Switching capacity, maximum	8 W
Switching capacity, maximum	10 VA
Switching element	Normally open contact (NO)
Bounce duration, maximum	0.5 ms

**Electrical data - Digital Output**

Versions	Reed contacts
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**Scope of delivery**

Included in delivery	Actuators must be ordered separately.
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**Accessory**

Recommendation (actuator)	BP 10 2x BP 10 BP 15 2x BP 15 BP 20 BP 31
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BP 11  
BP 12  
BP 8  
2 x BP 34

## Notes

Note (General) The opening and closing functions depend on the direction of actuation, the actuating magnets and the polarity of the actuating magnets.

## Pictures

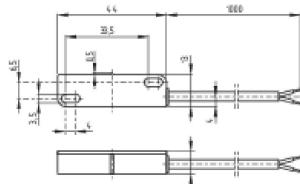
### Product picture (catalogue individual photo)



ID: kbn80f01

| 102,7 kB | .jpg | 352.778 x 67.733 mm - 1000 x 192 Pixel - 72 dpi  
| 8,3 kB | .png | 74.083 x 14.111 mm - 210 x 40 Pixel - 72 dpi

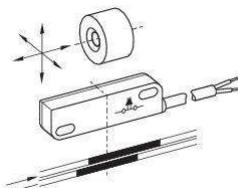
### Dimensional drawing basic component



ID: 1bn80g01

| 64,5 kB | .cdr |  
| 78,0 kB | .jpg | 352.778 x 244.475 mm - 1000 x 693 Pixel - 72 dpi  
| 3,4 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel - 72 dpi

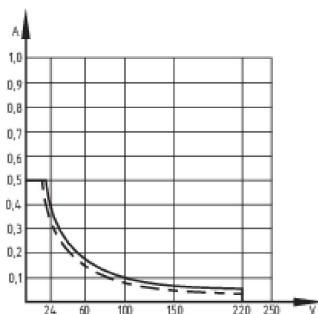
## Diagram



ID: 1bn80k03

| 21,1 kB | .cdr |  
| 82,3 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 Pixel - 72 dpi

### Characteristic curve



ID: kbn80d01

| 113,9 kB | .jpg | 352.778 x 340.783 mm - 1000 x 966 Pixel - 72 dpi  
| 2,7 kB | .png | 74.083 x 71.614 mm - 210 x 203 Pixel - 72 dpi  
| 35,8 kB | .cdr |

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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