



## BN 310-10Z 10,0M

- 1 Reed kontakts
- Non-contact principle
- Actuation from side
- Flat design
- Actuating surface and direction of actuation marked by switch symbol
- 88 mm x 25 mm x 13 mm
- Thermoplastic enclosure
- Actuating distance up to 60 mm depending on actuating magnet and version
- 2 reed contacts

## Data

### Ordering data

Product type description	BN 310-10Z 10,0M
Article number (order number)	101149097
EAN (European Article Number)	4030661149684
eCl@ss number, version 12.0	27-27-43-02
eCl@ss number, version 11.0	27-27-01-05
eCl@ss number, version 9.0	27-27-01-05
ETIM number, version 7.0	EC002544
ETIM number, version 6.0	EC002544

### Approvals - Standards

Certificates

cULus

## General data

Working principle	Magnetic drive
Housing construction form	rectangular
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	480 g

## General data - Features

Suitable for elevators	Yes
Number of normally open (NO)	1

## Mechanical data

Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
Actuating speed, maximum	18 m/s
Mounting	Enclosure with mounting slots

## Mechanical data - Switching distances according EN IEC 60947-5-3

Switching distance $S_n$	5 mm ... 50 mm BP 10 = 5 mm 2 x BP 10 = 17 mm
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Note (Switching distance  $S_n$ ) Actuating distance up to 60 mm depending on actuating magnet and version. The specified switching distances are applicable for the actuation of individually mounted components without ferromagnetic influence. A change of the distance, either positive or negative, is possible due to ferromagnetic influences. The mutual interference between multiple actuating magnets must be observed.

Repeat accuracy R	0.3 mm
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## Mechanical data - Connection technique

Length of cable	10 m
Wire cross-section	0.75 mm <sup>2</sup>
Wire cross-section	18 AWG
Material of the Cable mantle	H03VV-F

## Mechanical data - Dimensions

Length of sensor	13 mm
Width of sensor	88 mm
Height of sensor	25 mm

## Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +75 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

## Electrical data

Switching current, maximum	3 A
Switching capacity, maximum	120 W
Switching capacity, maximum	120 VA
Switching element	Normally open contact (NO)

## Electrical data - Digital Output

Design of control elements	Reed contacts
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## Scope of delivery

Scope of delivery      Actuator must be ordered separately.

## Accessory

Recommendation  
(actuator)      BP 10  
                         2x BP 10  
                         BP 15  
                         2x BP 15  
                         2x BP 15/2  
                         BP 34  
                         BP 20  
                         BP 31  
                         BP 11  
                         BP 12  
                         BP 21  
                         BE 20

Recommendation  
(actuator, lift  
switchgear)      BP 10  
                         2 x BP 15/2  
                         2 x BP 15  
                         2 x BP 10  
                         BP 15  
                         BP 34

## Note

Note (General)      The opening and closing functions depend on the direction of actuation, the actuating magnets and the polarity of the actuating magnets.  
                         When the switches and actuators come together, the colours must coincide: Red (S) to red (S) and green (N) to green (N). This does not apply to the bistable contact.  
                         The switch is to be mounted on iron with a non-magnetic layer of at least 20 mm.

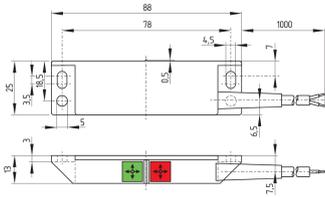
## Pictures

### Product picture (catalogue individual photo)



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| 98.1 kB | .jpg | 352.778 x 97.719 mm - 1000 x 277 px - 72 dpi  
| 13.9 kB | .png | 74.083 x 20.461 mm - 210 x 58 px - 72 dpi

### Dimensional drawing basic component

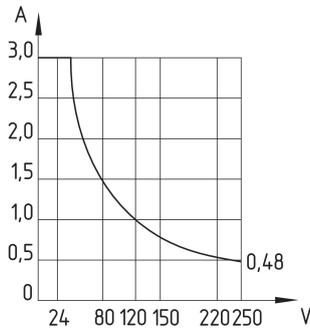


ID: kbn31g03

| 8.1 kB | .png | 74.083 x 44.097 mm - 210 x 125 px - 72 dpi

| 115.9 kB | .jpg | 352.778 x 210.608 mm - 1000 x 597 px - 72 dpi

## Characteristic curve



ID: kbn32d03

| 3.1 kB | .png | 73.731 x 77.964 mm - 209 x 221 px - 72 dpi

| 116.4 kB | .jpg | 352.425 x 371.828 mm - 999 x 1054 px - 72 dpi

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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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