



## BN 310-10Z

- 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

## Data

### Ordering data

EAN (European Article Number) 4030661059419

eCl@ss number, Version 9.0 27-27-01-05

eCl@ss number, Version 11.0 27-27-01-05

ETIM number, version 6.0 EC002544

ETIM number, version 7.0 EC002544

### Approval - Standards

Certificates cULus

### General data

Active principle	Magnetic drive
Housing construction form	rectangular
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	65 g

### General data - Features

Suitable for elevators	Yes
Number of shutters	1

### Mechanical data

Actuating panels	lateral
Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
Repeat accuracy R R	0.3 mm
Actuating speed, maximum	18 m/s
Mounting	Enclosure with mounting slots

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

Switch distance $S_n$	5 mm ... 50 mm
	BP 10 = 5 mm
	2 x BP 10 = 17 mm
	BP 15 = 6 mm
	2 x BP 15 = 17 mm
	2 x BP 15/2 = 17 mm
	BP 20 = 20 mm
	BP 31 = 20 mm
	BP 12 = 10 ... 30 mm
	BP 34 = 5 ... 20 mm
	BP 11 = 8 ... 20 mm
	BP 21 = 25 ... 50 mm
	BE 20 = 20 mm

Notice (Switch distance Sn)      Actuating distance up to 50 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.

### Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	1 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 to EN 60529
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+75 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	30 g / 11 ms

### Electrical data

Switching voltage, maximum	250 VAC
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Switching voltage, maximum	250 VDC
Switching current, maximum	3 A
Switching capacity, maximum	120 W
Switching capacity, maximum	120 VA
Switching element	Normally open contact (NO)
Bounce duration, minimum	0.3 ms
Bounce duration, maximum	0.6 ms
Switching frequency, maximum	300 Hz

## Electrical data - Digital Output

Versions Reed contacts

## Scope of delivery

Included in delivery Actuators 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	BP 10
(actuator, lift switchgear)	2 x BP 15/2
	2 x BP 15
	2 x BP 10
	BP 15
	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.  
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.

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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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