



## BN 65-RZ/V

- With pre-wired cable
- Actuation from front
- with bias magnet
- Non-contact principle
- Long life
- Actuating surface and direction of actuation marked by switch symbol
- Construction form Ø 13 mm
- Thermoplastic enclosure
- Actuating distance up to 60 mm depending on actuating magnet and version
- with central mounting

## Data

### Ordering data

Product type description	BN 65-RZ/V
Article number (order number)	101055838
EAN (European Article Number)	4030661009933
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	Cylinder smooth
Housing material	Glass-fibre, reinforced thermoplastic
Gross weight	76 g

## General data - Features

Latching	Yes
Suitable for elevators	Yes
bias magnet	Yes
Number of snap-in contacts	1

## Mechanical data

Actuating panels	front side
Actuating element	Magnet
Mechanical life, minimum	1,000,000,000 Operations
Actuating speed, maximum	18 m/s
Mounting	central with threated flange
Tightening torque of nuts, maximum	3 Nm

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

Switching distance $S_n$	3 mm ... 45 mm
	2 x BP 10 = 3 mm
	BP 34 = 15 mm
	BP 20 = 10 mm
	BP 31 = 10 mm
	BP 11 = 15 mm
	BP 12 = 20 mm
	BP 21 = 45 mm
	BP 22 N = 35 mm
	BP 22 S = 35 mm
	BE 20 = 10 mm

Note (Switching distance  $S_n$ ) Actuating distance up to 45 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

### Mechanical data - Connection technique

Length of cable	1 m
Termination	Cable
Wire cross-section	0.75 mm <sup>2</sup>
Wire cross-section	18 AWG
Material of the Cable mantle	H03VV-F

### Mechanical data - Dimensions

Diameter of sensor	13 mm
width across flats	22 BK
Length of sensor	103 mm

### Ambient conditions

Degree of protection	IP67
Ambient temperature	-25 ... +75 °C
Resistance to vibrations	10 ... 55 Hz, amplitude 1 mm
Resistance to shock	15 g, on sine wave oscillation

Resistant to vibration 15 g, on sine wave oscillation

## Electrical data

Switching voltage, maximum	250 VAC
Switching current, maximum	3 A
Switching capacity, maximum	120 W
Switching capacity, maximum	120 VA
Switching element	bistable contact
Bounce duration, minimum	0.3 ms
Bounce duration, maximum	0.6 ms
Switching frequency, maximum	300 Hz
Maximum switching frequency	720,000 /h

## Electrical data - Digital Output

Design of control elements Reed contacts

## Scope of delivery

Scope of delivery Actuator must be ordered separately.

## Accessory

Recommendation (actuator)	2x BP 10 BP 34 BP 20 BP 31 BP 11 BP 12 BP 21 BP 22 S BP 22 N BE 20
Recommendation (actuator, lift switchgear)	BP 10 2 x BP 10 BP 15 BP 34

## Note

Note (General) The switch is to be mounted on iron with a non-magnetic layer of at least 20 mm.

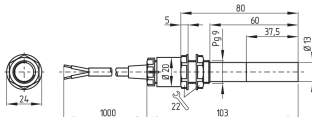
## Pictures

### Product picture (catalogue individual photo)



ID: kbn65f01  
 | 303.0 kB | .jpg | 90.664 x 656.519 mm - 257 x 1861 px - 72 dpi  
 | 252.7 kB | .png | 74.083 x 536.222 mm - 210 x 1520 px - 72 dpi  
 | 9.9 kB | .jpg | 16.933 x 123.472 mm - 48 x 350 px - 72 dpi

### Dimensional drawing basic component



ID: 1bn65g03  
 | 25.2 kB | .cdr |  
 | 7.6 kB | .png | 74.083 x 51.858 mm - 210 x 147 px - 72 dpi  
 | 81.6 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701 px - 72 dpi

### Switch travel diagram



ID: ksbn4sx3

| 18.0 kB | .cdr |

| 1.1 kB | .png | 74.083 x 18.697 mm - 210 x 53 px - 72 dpi

| 23.1 kB | .jpg | 352.778 x 88.194 mm - 1000 x 250 px - 72 dpi

## Switch travel diagram



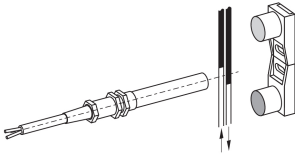
ID: ksbn4sx4

| 18.0 kB | .cdr |

| 1.1 kB | .png | 74.083 x 18.697 mm - 210 x 53 px - 72 dpi

| 22.8 kB | .jpg | 352.778 x 88.194 mm - 1000 x 250 px - 72 dpi

## Diagram



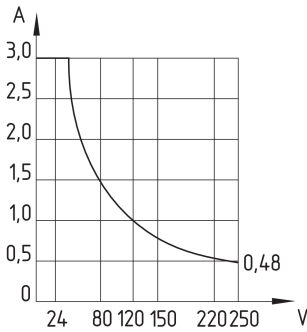
ID: 1bn65k23

| 22.0 kB | .cdr |

| 68.8 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 px - 72 dpi

| 9.2 kB | .png | 74.083 x 51.153 mm - 210 x 145 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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