



## BN 65-01Z/V

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

## Data

### Ordering data

|                               |               |
|-------------------------------|---------------|
|                               | BN 65-01Z/V   |
|                               | 101055831     |
| EAN (European Article Number) | 4030661009872 |
| eCl@ss number, Version 9.0    | 27-27-01-05   |

### Approval - Standards

cULus

### General data

|                           |                                       |
|---------------------------|---------------------------------------|
|                           | BN 65                                 |
| Active principle          | Magnetic drive                        |
| Housing construction form | Cylinder smooth                       |
| Enclosure material        | Glass-fibre, reinforced thermoplastic |
| Gross weight              | 65 g                                  |

### General data - Features

|                        |     |
|------------------------|-----|
| Suitable for elevators | Yes |
| bias magnet            | Yes |

Number of openers 1

### Mechanical data

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Actuating panels                            | front side                                                                                                                                                                                                                                                                                                                                                                                        |
| Actuating element                           | Magnet                                                                                                                                                                                                                                                                                                                                                                                            |
| Mounting                                    | central with threaded flange                                                                                                                                                                                                                                                                                                                                                                      |
| Mechanical life,<br>minimum                 | 1,000,000,000 Operations                                                                                                                                                                                                                                                                                                                                                                          |
|                                             | 5 mm ... 55 mm                                                                                                                                                                                                                                                                                                                                                                                    |
|                                             | BP 10S = 5 mm                                                                                                                                                                                                                                                                                                                                                                                     |
|                                             | 2 x BP 10S = 10 mm                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | BP 15S = 6 mm                                                                                                                                                                                                                                                                                                                                                                                     |
|                                             | BP 34S = 20 mm                                                                                                                                                                                                                                                                                                                                                                                    |
|                                             | BP 20S = 15 mm                                                                                                                                                                                                                                                                                                                                                                                    |
|                                             | BP 31S = 15 mm                                                                                                                                                                                                                                                                                                                                                                                    |
|                                             | BP 11S = 5 mm                                                                                                                                                                                                                                                                                                                                                                                     |
|                                             | 2 x BP 11S = 15 mm                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | BP 12S = 10 mm                                                                                                                                                                                                                                                                                                                                                                                    |
|                                             | 2 x BP 12S = 25 mm                                                                                                                                                                                                                                                                                                                                                                                |
|                                             | BP 21S = 30 mm                                                                                                                                                                                                                                                                                                                                                                                    |
|                                             | 2 x BP 21S = 20 ... 55 mm                                                                                                                                                                                                                                                                                                                                                                         |
|                                             | BP 22S = 25 mm                                                                                                                                                                                                                                                                                                                                                                                    |
|                                             | 2 x BP 22S = 15 ... 55 mm                                                                                                                                                                                                                                                                                                                                                                         |
| Notice (Switch<br>distance S <sub>n</sub> ) | Actuating distance up to 55 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 R                         | 0.3 mm                                                                                                                                                                                                                                                                                                                                                                                            |
| Actuating speed,<br>maximum                 | 18 m/s                                                                                                                                                                                                                                                                                                                                                                                            |
| Tightening torque of<br>nuts, maximum       | 3 Nm                                                                                                                                                                                                                                                                                                                                                                                              |

### Mechanical data - Connection technique

|                    |                     |
|--------------------|---------------------|
| Terminal Connector | Cable               |
| Length of cable    | 1 m                 |
| Wire cross-section | 0.8 mm <sup>2</sup> |
| Wire cross-section | 18 AWG              |
|                    | H03VV-F             |

### Mechanical data - Dimensions

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

## Ambient conditions

|                                          |                                |
|------------------------------------------|--------------------------------|
| Protection class                         | IP 67 to IEC/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, on sine wave oscillation |
| Resistant to vibration                   | 30 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            | Opener (NC)  |
| Bounce duration, minimum     | 0.3 ms       |
| Bounce duration, maximum     | 0.6 ms       |
| Switching frequency, maximum | 300 Hz       |
| Switching frequency          | 1,080,000 /h |

## Electrical data - Digital Output

|          |               |
|----------|---------------|
| Versions | Reed contacts |
|----------|---------------|

## Scope of delivery

|                      |                                       |
|----------------------|---------------------------------------|
| Included in delivery | Actuators must be ordered separately. |
|----------------------|---------------------------------------|

## Accessory

BP 10 S  
2x BP 10 S  
BP 15 S  
BP 34 S  
BP 20 S  
BP 31 S  
BP 11 S  
2x BP 11 S  
BP 12 S  
2x BP 12S  
BP 21 S  
2x BP 21 S  
BP 22 S  
2x BP 22 S  
BE 20 S  
  
BP 10  
2 x BP 10  
BP 15  
BP 34

## Notes

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

## Pictures

## Photo/Product/Catalogue

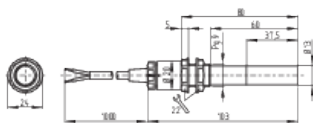


ID: kbn65f01

| 252,7 kB | .png | 74.083 x 536.222 mm - 210 x 1520  
Pixel - 72 dpi

| 303,0 kB | .jpg | 90.664 x 656.519 mm - 257 x 1861  
Pixel - 72 dpi

### Dimension/Product/Basic

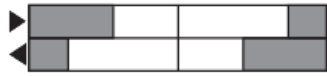


ID: 1bn65g03

| 7,6 kB | .png | 74.083 x 51.858 mm - 210 x 147 Pixel  
- 72 dpi  
| 25,2 kB | .cdr |  
| 81,6 kB | .jpg | 352.778 x 247.297 mm - 1000 x 701  
Pixel - 72 dpi

## Diagramm/Product/Travel

ID: ksbn4sx2



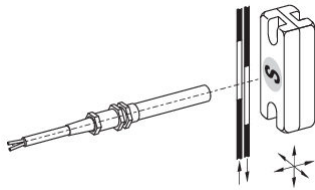
| 24,2 kB | .jpg | 352.778 x 88.194 mm - 1000 x 250

Pixel - 72 dpi

| 1,1 kB | .png | 74.083 x 18.697 mm - 210 x 53 Pixel -  
72 dpi

| 18,1 kB | .cdr |

## Graphic/Product/Contact

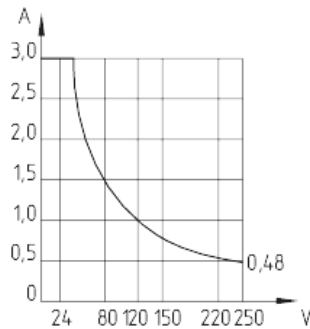


ID: 1bn65k22

| 23,3 kB | .cdr |

| 73,9 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691  
Pixel - 72 dpi

## Diagramm/Product/Curve



ID: kbn32d03

| 116,4 kB | .jpg | 352.425 x 371.828 mm - 999 x 1054  
Pixel - 72 dpi

| 3,1 kB | .png | 73.731 x 77.964 mm - 209 x 221 Pixel  
- 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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