

BN80-01Z



- Long life
- Flat design
- 1 Reed kontakts
- 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 80-01Z |
| Article number (order number) | 101082364 |
| EAN (European Article Number) | 4030661024035 |
| 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 openers | 1 |
|-------------------|---|

Mechanical data

| | |
|--------------------------|--------------------------|
| Actuating panels | lateral |
| Active area | lateral |
| Actuating element | Magnet |
| Mechanical life, minimum | 1,000,000,000 Operations |
| | 0 mm ... 20 mm |
| | BP 8 = 0 ... 5 mm |
| | BP 10 = 2 ... 9 mm |
| | 2 x BP 10 = 2 ... 13 mm |
| | BP 15 = 2 ... 10 mm |
| Switch distance S_n | 2 x BP 15 = 2 ... 15 mm |
| | 2 x BP 34 = 5 ... 18 mm |
| | BP 20 = 0 ... 14 mm |
| | BP 31 = 0 ... 14 mm |
| | BP 11 = 2 ... 16 mm |
| | BP 12 = 4 ... 20 mm |

| | |
|--------------------------|--|
| Notice (Switch distance) | Actuating distance up to 20 mm depending on version and actuating magnet |
|--------------------------|--|

Sn)

Mechanical data - Connection technique

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|------------------------------|---------------------|
| Terminal Connector | Cable |
| Length of cable | 1 m |
| Wire cross-section | 0.3 mm ² |
| 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 |
| Resistance 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 | Opener (NC) |
| Bounce duration, maximum | 0.5 ms |

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 BP 20 BP 31 |
|---------------------------|--|

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

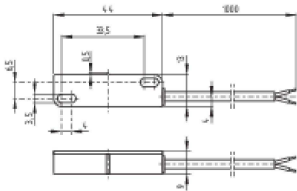
Product picture (catalogue individual photo)



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

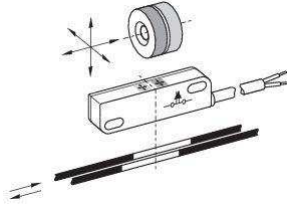
Dimensional drawing basic component



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

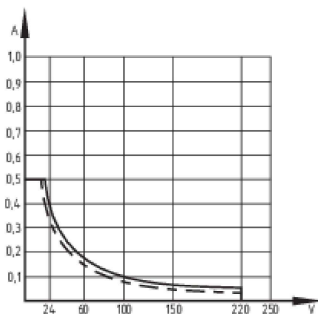
Diagram



ID: 1bn80k01

| 91,8 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691 Pixel - 72 dpi
 | 21,6 kB | .cdr |

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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