



BN 120-RZ

- Long life
- with bias magnet
- Design Ø 10.7 mm
- Actuation from side
- With pre-wired cable
- Non-contact principle
- with central mounting
- Thermoplastic enclosure
- Actuating distance up to 60 mm depending on actuating magnet and version

Data

Ordering data

	BN 120-RZ
	101186843
EAN (European Article Number)	4030661335421
eCl@ss number, Version 9.0	27-27-01-05

General data

	BN 120
Active principle	Magnetic drive
Housing construction form	Cylinder, thread
Enclosure material	Glass-fibre, reinforced thermoplastic
Gross weight	30 g

General data - Features

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

Mechanical data

Actuating panels	lateral
Actuating element	Magnet
Mounting	central with threaded flange M12 x 1
Mechanical life, minimum	10,000,000 Operations
	15 mm ... 60 mm
	BP 10N = 15 mm
	BP 10S = 15 mm
	2 x BP 10N = 20 mm
	2 x BP 10S = 20 mm
	BP 15N = 17 mm
	BP 15S = 17 mm
	2 x BP 15/2N = 22 mm
	2 x BP 15/2S = 22 mm
	BP 34N = 10 ... 30 mm
	BP 34S = 15 ... 30 mm
	BP 20N = 25 mm
	BP 20S = 25 mm
	BP 31N = 25 mm
	BP 31S = 25 mm
	BP 11N = 15 mm
	BP 11S = 15 mm
	2 x BP 11N = 25 mm
	2 x BP 11S = 25 mm
	BP 12N = 20 mm
	BP 12S = 20 mm
	2 x BP 12N = 10 ... 30 mm
	2 x BP 12S = 10 ... 30 mm
	BP 21N = 15 ... 45 mm
	BP 21S = 15 ... 45 mm
	2 x BP 21N = 20 ... 60 mm
	2 x BP 21S = 20 ... 60 mm
Notice (Switch distance Sn)	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 R	0.3 mm
Actuating speed, maximum	18 m/s
Tightening torque of nuts, maximum	0.9 Nm

Mechanical data - Connection technique

Terminal Connector	Cable
Length of cable	1 m
Wire cross-section	0.3 mm ²

Wire cross-section 23 AWG
LiYY

Mechanical data - Dimensions

Diameter of sensor 10.7 mm
Length of sensor 71 mm

Ambient conditions

Protection class IP 67 to IEC/EN 60529
Ambient temperature, minimum -25 °C
Ambient temperature, maximum +70 °C
Resistance to vibrations to EN 60068-2-6 10 ... 55 Hz, amplitude 1 mm
30 g / 11 ms

Electrical data

Switching voltage, maximum 200 VAC
Switching current, maximum 1 A
Switching capacity, maximum 30 W
Switching capacity, maximum 30 VA
Switching element bistable contact
Bounce duration, maximum 0.2 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

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

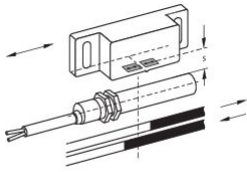
Notes

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.

Pictures

Photo/Product/Catalogue

Graphic/Product/Contact



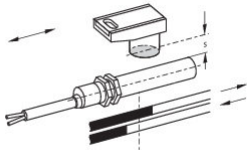
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| 23,7 kB | .cdr |

| 91,9 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691

Pixel - 72 dpi

Graphic/Product/Contact



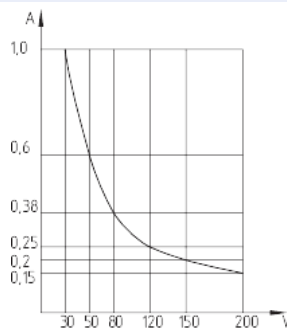
ID: 1bn12k01

| 79,9 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691

Pixel - 72 dpi

| 23,3 kB | .cdr |

Diagramm/Product/Curve



ID: kbn65d03

| 2,9 kB | .png | 73.731 x 84.314 mm - 209 x 239 Pixel
- 72 dpi

| 112,6 kB | .jpg | 352.425 x 402.167 mm - 999 x 1140
Pixel - 72 dpi

| 16,7 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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