



BN 120-10Z/V

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

Data

Ordering data

	BN 120-10Z/V
	101186841
EAN (European Article Number)	4030661335414
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

Suitable for elevators	Yes
bias magnet	Yes
Number of shutters	1

Mechanical data

Actuating panels	front side
Actuating element	Magnet
Mounting	central with threaded flange M12 x 1
Mechanical life, minimum	10,000,000 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 distance Sn)	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, 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	Normally open contact (NO)
Bounce duration, maximum	0.2 ms
Switching frequency, maximum	300 Hz

Electrical data - Digital Output

Versions	Reed contacts
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Scope of delivery

Included in delivery	Actuators must be ordered separately.
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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 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



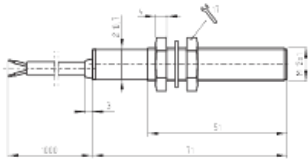
ID: kbn12f02

| 237,5 kB | .jpg | 352.778 x 528.814 mm - 1000 x 1499 Pixel - 72 dpi

| 21,0 kB | .png | 73.731 x 110.772 mm - 209 x 314 Pixel - 72 dpi

Dimension/Product/Basic

ID: 1bn12g04



| 3,1 kB | .png | 74.083 x 51.153 mm - 210 x 145 Pixel
- 72 dpi

| 68,5 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691
Pixel - 72 dpi

| 23,3 kB | .cdr |

Diagramm/Product/Travel

ID: ksbn4sx1

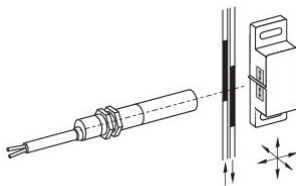


| 18,0 kB | .cdr |

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

| 23,4 kB | .jpg | 352.778 x 88.194 mm - 1000 x 250
Pixel - 72 dpi

Graphic/Product/Contact

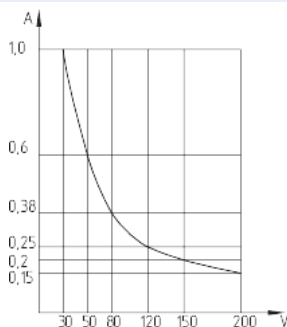


ID: 1bn12k05

| 23,9 kB | .cdr |

| 70,4 kB | .jpg | 352.778 x 243.769 mm - 1000 x 691
Pixel - 72 dpi

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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